



SELF-STUDY REPORT

[NAAC ACCREDITATION 2015]

SUBMITTED TO

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE**



CENTRAL UNIVERSITY OF JHARKHAND

RATU-LOHARDAGA ROAD, BRAMBE, RANCHI-835-205

2015



झारखण्ड केन्द्रीय विश्वविद्यालय
Central University of Jharkhand
(भारतीय संसद के अधिनियम, 2009 द्वारा स्थापित)
(Established by an act of Parliament of India, 2009)

Prof. A. N. Misra
Vice-Chancellor (Acting)

From the Desk of the Vice-Chancellor

It gives me immense pleasure to present the Self-Study Report(SSR) of Central University of Jharkhand, Ranchi to the National Assessment and Accreditation Council (NAAC), Bangalore for first assessment and accreditation. We have made our sincere efforts and taken due care to present the facts as per NAAC guidelines while preparing this self-study report.


The University has made significant contributions in the field of higher education in creating and disseminating quality education and research output. The significant contributions made by the university is the result of sustained and dedicated efforts of all the stake holders including members of Executive Council, Academic Council, Board of Research Studies, Faculty, Administrative Staff, and our beloved students.

Our objective and motivation behind this application is to get our strengths assessed and our weaknesses identified by the peer team. We will try our best to implement the suggestions given by the peer team after assessment and work to develop and transform this University as a center of excellence in teaching and research. The main thrust of the University is to develop and provide the state-of-the-art infrastructure and world class academic and research environment to its faculty and students.

I am extremely happy to present and submit comprehensive details about the University and its activities, contributions and significant achievements in form of the SSR to the NAAC, Bangalore.

I hope that the NAAC will accept this SSR and will arrange to send the peer team to visit our University soon.

Ranchi
Date: 29/01/2015


29.1.15
(A.N.Misra)

Vice-Chancellor (Acting)

Vice Chancellor

झा. के. वि., रातु-लोहरदगा रोड, ब्राम्बे, राँची - 835 205/ C.U.J., Ratu-Lohardaga Road, Brambe, Ranchi - 835205

कलपति
Central University of Jharkhand, Ranchi
केन्द्रीय विश्वविद्यालय, झारखण्ड, राँची

SELF-STUDY REPORT

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EXECUTIVE SUMMARY

Established in 2009 by Parliamentary Act of India, Central University of Jharkhand (CUJ) is a young, vibrant and futuristic, non-affiliating University. His Excellency, Shri Pranab Mukherjee, Hon'ble President of India is the Visitor of the University. The University focus is on creating academic excellence and imparting research on cutting edge technologies. The curriculum design and development of the University is an apt reflection of its vision and objectives.

The temporary campus of the University is located at Brambe, 25 km drive from Ranchi City, with an area of about 45 acres. University has outsourced Transportation Services for commuters. The State Government of Jharkhand allotted 319.29 acres of land for permanent campus at Cheri-Manatu, block in Ranchi.

Our vision is to create a world class university in every aspect, be it research, teaching, administration or co-curricular activities that shall enable us to produce students ready to excel in every chosen field with honour and uprightiness. The objectives of the University are to: Disseminate and advance knowledge by providing instructional and research facilities in various disciplines; Make special provisions for Integrated Courses in Humanities, Social Sciences and Science & Technology; Promote innovations in teaching-learning process and inter-disciplinary studies and research; Educate and train manpower for the development of the country; Establish linkages with industries for the promotion of science and technology; and Pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development. *Our Motto is: Knowledge to Wisdom*

The University has 22 teaching and research centres covering languages, humanities, social sciences, sciences, management, and engineering. During the last five academic years since its inception in 2009, the University has made concerted efforts to enhance its excellence in teaching, research and extension activities. The unique and distinguishing feature of the University is that it offers Five Year Integrated Programmes in Applied Sciences, Languages, Social Sciences, Management, and Engineering including those in new and emerging areas such as Nano-Technology, Energy Engineering, Water Engineering and Management, Environmental Sciences and Land Resources Management.

The courses are designed so as to cater to the student diversity and their ability to cope with the programmes. The faculty members adopt innovative teaching methods combined with the ICT and digital technology. The university has introduced the Choice Based Credit System (CBCS) since its

inception. This CBCS has further been refined and improved by introduction of flexibility in elective papers, and internship projects. The curriculum of the University has been designed to involve lectures, tutorials, laboratory work, seminar, project work, practical training, report writing, and Viva voce etc. A combination of these curricula is given to meet effectively the 'teaching-learning' needs and the credits assigned suitably. The Centres take care to offer inter-disciplinary courses or teaching in any discipline not specifically assigned to any centre or which may be necessary as a common service facility to a number of centres or teaching-cum-research in such disciplines. Field studies in relation to any facet of social and cultural life of the people including activities involving providing facilities for training in relation thereto, are also undertaken. Environmental Studies, and Disaster management is mandatory for all the students of Semester II and Semester IV, respectively.

The students are admitted through on merit list drawn from a National Entrance test CUCET/CUJET/Marks secured in the qualifying examination. The CUJ implements the reservation rules of the Government of India. The University has also initiated several steps to attract foreign students at Graduate and Ph.D. level. The foreign applicants are exempted from appearing for entrance examinations and are admitted under supernumerary seats over the sanctioned strength. The university facilitated MoUs with a number of foreign Universities/Institutions and Indian universities for faculty and students exchange, and transfer of credits.

Students join higher education courses to gain knowledge. At the University, we strive to transform that knowledge to wisdom so that society finally gains a useful citizen to guide and mould its destiny. This we plan to do through many community-based projects, interactions with a wide cross-section of people from within our country and abroad.

The examination and evaluation system is improving year after year. The examination is a continuous system with periodic sessional tests, assignments and end semester examinations. Each component examination has its credits and the overall credit is taken into account to evaluate the success of the candidate in the examination.

In order to enhance the teacher quality, the University encourages the faculty to attend Orientation and Refresher courses provided through the Academic Staff Colleges. The CUJ supports faculty in organizing/ attending National/International Seminars and conferences. Experts from various fields are invited for teaching, organizes seminars/ conferences on different subjects. These academic pursuits contribute to disseminate knowledge amongst students, faculty and external participants to a great extent.

The CUJ has annual self-appraisal system and students-evaluation of faculties.

The University has been making concerted efforts to support high quality research among its faculty members and students. The state-of-the art infrastructure facilities are available for students and faculty members to carry out research in cutting edge areas. The University's record of publications is quite impressive and is a token of assessment for the research outcome.

The physical and IT infrastructure of the University has expanded to match the requirements of curriculum, pedagogy, research, extension and student related services.

The University's governance structure has been improved with 'checks and balances' in functioning and by utilizing the collective wisdom in decision making. The CUJ has effective financial audit, and grievance redressal System. The University has been adhering to best practices such as rule of law, merit, discipline, and professional ethics, excellence in teaching and research, selflessness, integrity, objectivity, openness, honesty etc. which are part of the long tradition and culture in India.

The University has been successfully marching ahead into the competitive globalised era to transform educated youth as employable youth and to provide leaders in academic and research arena. With the primary objective of converting talents in higher education into human resources, the University, based on its accrued strength, is emerging as one of the pillars of the edifice of Indian Higher Education in the resource-full tribal dominated state of Jharkhand.

PROFILE OF THE UNIVERSITY

1. Profile of the University

1. Name and Address of the University:

Name:	CENTRAL UNIVERSITY OF JHARKHAND	
Address:	RATU-LOHARDAGA ROAD, BRAMBE, RANCHI- 835 205	
City: RANCHI	Pin: 835 205	State: JHARKHAND
Website:	www.cuj.ac.in	

For communication

2. :

Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Professor A.N. Misra (Acting)	O: 06531-294160, 294168 R:	09437295915, 09570153269	06531-294161	vc@cuj.ac.in
Pro Vice Chancellor (s)	Nil	O: R:			
Registrar	Professor Sarang Medhekar (I/C)	O: 06531-294182 R:	09431382715		registrar@cuj.ac.in
Steering Committee / IQAC Co-ordinator	Prof. Taposh Ghoshal	O: R:	09431105185		

3. Status of the University:

State University

State Private University

Central University

University under Section 3 of UGC (Deemed University) Institution of National Importance

Any other (please specify)

√

4. Type of University:

Unitary

Affiliating

√

5. Source of funding:

Central Government

State Government

Self-financing

Any other (please specify)

√

6.a. Date of establishment of the university: **01/03/2009 (Established by an Act of Parliament, 2009)**

b. Prior to the establishment of the university, was it a/an

i. PG Centre Yes No

ii. Affiliated College Yes No

iii. Constituent College Yes No

iv. Autonomous College Yes No

v. Any other (please specify)

If yes, give the date of establishment (dd/mm/yyyy)

7. Date of recognition as a university by UGC or any other national agency:

Under Section	dd	mm	yyyy	Remarks
i. 2f of UGC*				
ii. 12B of UGC *				
iii. 3 of UGC #				
iv. Any other ^ (specify)	CUJ is a Centrally funded Institute started with the 'Central Universities Act 2009', enacted by the ordinance of the Parliamentary of India.			

* Enclose certificate of recognition.

Enclose notification of MHRD and UGC for all courses / programmes / campus/ campuses.

^ Enclose certificate of recognition by any other national agency/agencies, if any.

8. Has the university been recognized

a. By UGC as a University with Potential for Excellence?

Yes No

If yes, date of recognition : (dd/mm/yyyy)

b. For its performance by any other governmental agency?

Yes No

If yes, Name of the agency and
date of recognition: (dd/mm/yyyy)

9. Does the university have off-campus centres?

No

If yes, date of establishment : (dd/mm/yyyy)

date of recognition : (dd/mm/yyyy)

10. Does the university have off-shore campuses?

Yes No

If yes, date of establishment : (dd/mm/yyyy)

date of recognition : (dd/mm/yyyy)

11. Location of the campus and area:

	Location *	Campus area in acres	Built up ar in sq. mts
i. Main campus area	RURAL	45 acres (temporary) at Brambe 319.29 acres (permanent) at Cheri-Mantu (under construction)	
ii. Other campuses in the country			
iii. Campuses abroad			

(* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.

Auditorium/seminar complex with infrastructural facilities : Yes

Sports facilities

* playground : Yes

* swimming pool : No

* gymnasium : Yes

* any other (please specify)

Hostel

* Boys' hostel

i. Number of hostels : 09

ii. Number of inmates : 560

iii. Facilities : 24 x 7 Electricity, 24 x 7 Water with purifier, 24x7 Wi-fi internet connectivity facilities, bed with mattresses, common rooms with TV etc.

* Girls' hostel

i. Number of hostels : 09

ii. Number of inmates : 465

iii. Facilities : 24 x 7 Electricity, 24 x 7 Water with purifier, 24x7 Wi-fi internet connectivity facilities, bed with mattresses, common rooms with TV etc.

iv. * Working women’s hostel : Nil

- i. Number of hostels
- ii. Number of inmates
- iii. Facilities

- Residential facilities for faculty and non-teaching : Yes
- Cafeteria : Yes
- Health centre – Nature of facilities available – inpatient, outpatient, ambulance, emergency care facility, etc. : Yes
- Facilities like banking, post office, book shops, etc. : Yes
- Transport facilities to cater to the needs of the students and staff : Yes
- Facilities for persons with disabilities : Yes
- Animal house : No
- Incinerator for laboratories :
- Power house : Yes
- Waste management facility :

13. Number of institutions affiliated to the university : CUJ is a Non affiliating University.

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce			
Law			
Medicine			
Engineering			
Education			
Management			
Others (specify and provide details)			

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University : NA

Yes No Number

15. Furnish the following information:

Particulars	Number	Number of Students
a. University Departments Undergraduate Post graduate Research centres on the campus		
b. Constituent colleges	Nil	
c. Affiliated colleges	Nil	
d. Colleges under 2(f)		
e. Colleges under 2(f) and 12B		
f. NAAC accredited colleges	Nil	
g. Colleges with Potential for Excellence (UGC)	Nil	
h. Autonomous colleges	Nil	
i. Colleges with Postgraduate Departments	Nil	
j. Colleges with Research Departments	Nil	
k. University recognized Research Institutes/ Centres	Nil	

16. Does the university conform to the specification of Degrees as enlisted by the UGC?

Yes No

If the university uses any other nomenclatures, please specify.

17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)

Programmes	Number
UG	02
PG	07
Integrated Masters	17
M.Phil.	
Ph.D.	16
Integrated Ph.D.	
Certificate	
Diploma	
PG Diploma	
Any other (please specify)	
Total	42

18. Number of working days during the last academic year. 225 days (2013-14)
19. Number of teaching days during the past four academic years.

190	190	190	160
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("Teaching days" means days on which classes were engaged. Examination days are not to be included)

20. Does the university have a department of Teacher Education?

Yes No

If yes,

- a. Year of establishment - 2013 (dd/mm/yyyy)
- b. NCTE recognition details (if applicable)
Notification No.:
Date: (dd/mm/yyyy)
- c. Is the department opting for assessment and accreditation separately?
Yes No

21. Does the university have a teaching department of Physical Education?

Yes No

If yes,

- a. Year of establishment (dd/mm/yyyy)
- b. NCTE recognition details (if applicable)
Notification No.:
Date: (dd/mm/yyyy)
- c. Is the department opting for assessment and accreditation separately?
Yes No

22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?

Yes No

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

No

24. Number of positions in the university

Positions	Teaching faculty			Non-teaching staff	Technical staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC / University / State Government	24	47	96	150	46
<i>Recruited</i>	09	10	77	59	
<i>Yet to recruit</i>	15	37	19	91	
Number of persons working on contract basis	02	--	30	08	01

25. Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	09		08	02	45	07	71
M.Phil.					04	01	05
PG	01				22	05	28
Temporary teachers							
Ph.D.					10	03	13
M.Phil.							
PG					11	04	15
Part-time teachers							
Ph.D.	01				06	02	09
M.Phil.							
PG					06		06

26. Emeritus, Adjunct and Visiting Professors.

	Emeritus	Adjunct	Visiting
Number	Nil	Nil	Nil

27. Chairs instituted by the university: No

	Chairs
School / Department	

28. Students enrolled in the university departments during the current academic year, with the following details:

Students	UG	PG	Inte- grated Masters	M. Phil.	Ph.D.	Inte- grated Ph.D.	D.Litt./ D.Sc.	Certifi- cate	Diploma	PG Diploma
	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F
From the state where the university is located			270*208		22*13					
From other states of India										
NRI students										
Foreign students										
Total			478		35					

*M - Male *F - Female

29. 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- (a) including the salary component = Rs.1,65,313/-
 (b) excluding the salary component = Rs.81.335/-

30. Academic Staff College Nil

- Year of establishment
- Number of programmes conducted (with duration) * UGC Orientation
- * UGC Refresher
- * University's own programmes

31. Does the university offer Distance Education Programmes (DEP)?

Yes No

If yes, indicate the number of programmes offered.

Are they recognized by the Distance Education Council?

32. Does the university have a provision for external registration of students?
 Yes No
 If yes, how many students avail of this provision annually?
33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle.
 Accreditation : Cycle 1 Cycle 2 Cycle 3 Cycle 4
 Re-Assessment:
34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) N.A.
 Cycle 1: (dd/mm/yyyy), Accreditation outcome/Result
 Cycle 2: (dd/mm/yyyy), Accreditation outcome/Result
 Cycle 3: (dd/mm/yyyy), Accreditation outcome/Result
 Cycle 4: (dd/mm/yyyy), Accreditation outcome/Result *
 Kindly enclose copy of accreditation certificate(s) and peer team report(s)
35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.
 N.A.
36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).
 IQAC 06/ 01/ 2015
 AQAR (i) (dd/mm/yyyy)
 (ii) (dd/mm/yyyy)
 (iii) (dd/mm/yyyy)
 (iv) (dd/mm/yyyy)
37. Any other relevant data, the university would like to include (not exceeding one page). No

CRITERIA - WISE INPUTS

CRITERION - I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

Central University of Jharkhand, established in 2009 by an Act of Parliament of India, is a young, vibrant and futuristic University. CUJ is a non-affiliated University and its focus is on academic excellence and cutting edge technologies. His Excellency, Shri Pranab Mukherjee, Hon'ble President of India is the Visitor of the University. Its vision being to create a world class university in every aspect, CUJ strives to impart higher education in India by designing and developing curricula while taking cognizance of major changes in the national higher education policy, global developments, scientific and technological advancements and skills warranted by the industry and society at large.

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

The curriculum design and development of CUJ is an apt reflection of its vision, mission and objectives. The curriculum design, development, implementation and enrichment processes ensure that global needs are met while taking care of the local, regional and national human resource requirements. The university makes every effort to balance this spectrum of needs by constantly revamping the syllabi and re-designing the course structures. Expansion, inclusion and excellence are the core building blocks that reflect the vision, mission and objectives of the university.

The university has introduced the Choice Based Credit System (CBCS) in its course structure in one semester of each programme which is a reflection of the vision and mission of the university. The CBCS system provides flexibility for both teachers and students. It allows the learners to choose the courses of their choice, learn at their own pace, undergo additional courses, and adopt an inter-disciplinary approach to learning. In this system, the teachers have the flexibility to introduce new courses, improve and modify the existing course content in line with the changing needs of the industry and society. This CBCS system in the course structure is the true reflection of the vision and mission of the university.

1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Since the inception of the university as an avenue to transform knowledge to wisdom, a systematic process has always been followed in the design and development of the curricula for all the under-graduate, post-graduate and doctoral programmes. The curriculum is designed and developed taking care

of the individual, occupational and organizational needs at the local, regional and national levels. The Centre, after due deliberations designs the draft syllabus. The same is sent to experts in the relevant fields for their expert opinions and validation. The Academic Council Meeting which comprises of professionals from academics and experts from industries may give its views/suggestions which are dully incorporated in the syllabus. Based on their suggestions, the curriculum is finalized in each subject. The same is then put up to the academic council of the University for its Ratification.

In each centre the syllabus is revised at least once in three years in keeping with contemporary needs. Students' feedback about the quality and relevance of academic courses, collected at least once every semester is also taken into consideration during revision of the syllabus. The revised syllabus is then presented in the Academic Council meeting where every aspect of the curriculum is discussed in the open forum and suggestions are taken into consideration while restructuring the syllabus, if required.

1.1.3 How are the employability, innovation and research aspects ensured through curriculum design and development?

Since inception the university has been making efforts to introduce those programmes that would create employability, not only at the regional or national level, but also at the global level. Considering employability as a major concern, the university introduces new courses and/or enriches the existing courses in tune with the changing labour market, industry and societal needs. In this light, soft skills, computer literacy programmes, internships both at under-graduate and post-graduate levels, non-major electives and inter-departmental electives under CBCS system, individual projects at P.G level as well as experimental and activity based learning have been incorporated into the curriculum structure as measures to enhance the competence of the students and render them employable, carry out innovative research activities at the larger interest of the society.

The university understands the importance of innovation and research in the process of the development of human civilization. Thus, special attentions have been given to curriculum up-gradation in the light of the latest developments in the concerned area of the study. It is the research which adds to the domain of knowledge. So, the curriculum has been designed and developed in such a way that students would be motivated and oriented for jumping into the frying pan of quality and value added research.

1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

The university designs, develops and restructures the curriculum for its various programmes adhering to the guidelines suggested by UGC, AICTE,

NCTE, and such other regulatory bodies. In addition, the syllabi structure and contents of different programmes have also been designed and developed taking into consideration certain flagship national and international level academic and research institutions. The curricula have also been designed keeping in mind the requirements of various funding agencies including DST, DBT, CSIR, ICSSR, etc. and that prepares the students to take up UPSC, NET-JRF, SLET, CAT, MAT, IES, and such other competitive examinations.

1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?

The university gives importance to the feedbacks given by eminent academicians, highly experienced industry experts, research personnel, and other knowledgeable persons while making revisions in the curriculum structure and contents. Experts from industry and research organisations are there in Academic Council and Board of Research Studies where all the syllabi are taken up for open discussion and modification in line with the suggestions thereof. The university organises workshops, special lectures and seminars on various topics which also help enriching the contents of curricula. From this, the university has benefited in revamping its curricula so as to inculcate values in education, create employability, and motivate students for innovations and research that would ultimately ensure sustainable growth and development of the society.

1.2 Academic Flexibility

The basic motto of the university is knowledge to wisdom which is ensured through academic flexibility allowed to students and teachers as well. It is the CBCS system in one semester, and the provision of elective papers in certain designated semester(s) provide the students of the university with academic flexibility in terms of choosing courses thereby earning minimum number of credits. The students have liberty to choose course(s) offered by other institutions/universities in India or abroad. The teachers are also enjoying academic flexibility in introducing innovative and value adding courses in the curriculum and enriching the contents of existing courses in sync with the latest developments in the field.

1.2.1 Furnish the inventory for the following:

❖ Programmes taught on campus

S.N.	NAME OF SCHOOLS	NAME OF CENTRES	NAME OF PROGRAMMES
1.	School of Mass Communication & Media Technologies	Centre for Mass Communication	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
2.	School of Management Sciences	Centre for Business Administration	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • Short-term Courses • PhD

3.	School of Natural Sciences	Centre for Applied Mathematics	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • 2 Year Master Degree (Computer Science) • PhD
		Centre for Applied Physics	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Applied Chemistry	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Life Sciences	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
4.	School of Languages	Centre for English Language	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Far East Languages	<p>Korean Language</p> <ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • Six Month Certificate course • One Year Diploma Course <p>Chinese Language</p> <ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • Six Month Certificate course • One Year Diploma Course <p>Tibetan Language</p> <ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • Six Month Certificate course • One Year Diploma Course • PhD
5.	School of Engineering and Technology	Centre for Nanotechnology	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Energy Engineering	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
6.	School for the Study of Culture	Centre for Indigenous Culture	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Tribal & Customary Law	<ul style="list-style-type: none"> • 2 Year Master Degree • PhD
		Centre for Tribal Folklore, Language & Literature	<ul style="list-style-type: none"> • 2 Year Master Degree • M Phil • PhD
		Centre for Performing Arts	<ul style="list-style-type: none"> • Bachelor in Performing Arts in Vocal Music/Theatre Arts • Master in Performing Arts in Vocal Music • PG – Master in Performing Arts in Theatre Arts • PhD in Music

7.	School of Natural Resources Management	Centre for Water Engineering & Management	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for Land Resources Management	<ul style="list-style-type: none"> • 5Year Integrated (UG/ PG) Master Degree • 2 Year Master Degree • One Year Diploma Course (Geo-Informatics) • PhD
		Centre for Environmental Sciences	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
8.	School of Humanities & Social Sciences	Centre for Human Rights & Conflict Management	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree • PhD
		Centre for International Relations	<ul style="list-style-type: none"> • 5 Year Integrated (UG/ PG) Master Degree
		Centre for Humanities and Social Sciences	<ul style="list-style-type: none"> • PhD in Economics and Sociology
9.	School of Education	Centre for Education	<ul style="list-style-type: none"> • 4 Year B.A.B.Ed • 4 Year B.Sc.B.Ed

❖ **Overseas programmes offered on campus:** At present, the university does not have any overseas programmes on its campus, except having overseas scholars in Ph.D. programs. There are also Post-Doctoral fellows/ visitors and Fulbright Scholars from USA visiting CUJ.

❖ **Programmes available for colleges to choose from:** The University is a non-affiliating (unitary) university.

1.2.2 Give details on the following provisions with reference to academic flexibility:

❖ **Core/Elective options:** The University has introduced the CBCS system in all its Five Year Integrated Courses. This system provides the academic flexibility to students in choosing core/elective/interdisciplinary courses of their own choice. However, this CBCS system is now limited to the 5th Semester only. Following is the list of electives/interdisciplinary courses generally offered by the university.

[Advertising Theory and Practice, Aerosol and Environment, Concept in Theoretical Physics, Introduction to Complex Analysis, E-Commerce, Structure Analysis-II, Electromagnetic Energy Conversion, Introduction to Worlds Literature, Neuro Science, Advance Korean Grammar-I, Theoreies of Society and culture, Current Trends in International Relations, Industrial Pollution and control, Geoinformatics Application in Urban and Regional, Research Methods, Chemistry in Bio-Molecules, Sociology of Development, Introduction to System Software, Rural Communication, Steel Structures Design, Diffraction Techniques, Nano-Science and Nano-technology, Human Resource Planning, Heat and Mass Transfer, Photo Biology, Environmental Chemistry, Business Korean-II, Advanced Functional Material and Devices,

Probability-II, Material and Purchase Management, Refrigeration and Air-conditioning, Cancer Biology, Chemistry in Everyday Life, Literature and Gender, Indian Foreign Policy, Polymer Chemistry, Tension Calculus, and Basic Application in Physics, Environmental Issues, Optimization Techniques-I, Civil Engineering Estimating and Costing, Brand Management, Hanja-I, Communication Electronics, Introduction to Tibetan Language, Culture and Buddhism, Industrial Relations and Labour Laws, Project Management Techniques, Industrial Safety and Toxicology, Media Management, Ecology and forestry, Mathematical economics, Gandhi and Contemporary World, Drug Discover and Delivery, Service Marketing, Rural Energy Technology, Partition Literature, Specialized Terminology and Translation, Human Trafficking and Indigenous People, Animal Cell and Tissue Engg., Introduction to Graph Theory, New Literature in English, Public Relations Theory and Practices, Cost Accounting, Analytical Techniques and Scientific Presentation, Special theory of Relativity, Transport Engineering, Power Electronics, Forestry and Wildlife Management, Basics of Interpretation, South Asia in World Politics, Introduction to Linguistics, Fibre and Integrated Optics, Cost Accounting, Corporate Social Responsibility, Brand Management, Human Resource Planning, Creativity and Innovation, Industrial Relations and Labour Laws, E- Commerce, Service Marketing]

- ❖ **Enrichment courses:** The university proposes to introduce such courses, may be ‘audit’ type, in the near future.
- ❖ **Courses offered in modular form:** The University proposes to introduce such courses in the near future.
- ❖ **Credit accumulation and transfer facility:** This facility is available as the university has certain MoUs with other universities.
- ❖ **Lateral and vertical mobility within and across programmes, courses and disciplines:** Such facility is not available at present.

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

The university has the provision of attracting international faculties, students and researchers. The university has several MoUs with foreign institutions/universities from abroad for exchange programmes. The university has constituted an International Students’ Cell which promotes and helps international students who want to take admission in various UG/PG/Doctoral programmes of the university. The university coordinates visits of delegations from abroad, facilitates researchers from abroad to work for limited period for research, and provides facilities at the UG and PG levels for credit transfer.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If ‘no’, explain the impediments.

All programmes at CUJ have been designed and developed to attract international students. Currently, there are foreign students in PhD programmes in the Centres for Business Administration and English Language. And, there are UG students in the Centre for Tibetan Language.

1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.

NA

1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

At present, the university offers a Two Year self-financing M.Tech. programme in Computer Science and Mobile Computing. The university follows a uniform policy regarding admission, fee structure, teacher qualification and salary etc. for all programmes.

1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.

NA

1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?

The university has adopted the CBCS system for all its 5 Year Integrated programmes. For 18 such programmes, the CBCS system has been implemented at the 5th Semester level.

1.2.9 What percentage of programmes offered by the university follow:

- ❖ Annual system: None
- ❖ Semester system: All [100%] (Cent Percent)
- ❖ Trimester system: None

1.2.10 How does the university promote inter- disciplinary programmes? Name a few programmes and comment on their outcome.

All the Schools/Centres of the University are of Interdisciplinary nature. The Centre for Nano Technolgy, Water Engineering & Management, Energy Studies, Life Sciences, Applied Mathematics, Applied Chemistry, Applied Physics, Tribal and Customary Law etc. are few examples. These courses help the students to learn various foundation, core, elective subjects along with the subjects which train them to become efficient and successful researchers and teachers.

1.3 Curriculum Enrichment

Curriculum enrichment is the means to attain quality and value added education. Understanding the significance of curriculum enrichment, the

university has the provision of periodical review and revamping of curriculum for making it socially relevant, job oriented, knowledge intensive and meeting the emerging needs of students and other stakeholders.

1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The curriculum for various programmes are reviewed and upgraded every year through brain storming sessions in board of studies and Academic Council. However, CBCS pattern allows for constant review and up-gradation of the course structure and contents to keep abreast of the latest trends in the emerging areas and also to keep pace with the industrial needs, and global competition.

1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

- ❖ **Inter-disciplinary:** Two programmes, viz., 4 Year Integrated B.A.B.Ed and B.Sc.B.Ed, and 2 year B.Ed. in 2013.
- ❖ **Programmes in emerging areas:** 5 year Integrated programmes in Life Sciences, Nano-Technology, Energy Engineering, Water Engineering and Management, and Land Resource Management at the UG/PG Level.

1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

The university strives to revamp the existing courses periodically to meet the emerging needs of the day. The main factors that are taken into consideration while revamping the courses include contemporariness of curriculum, relevance and contextual to the demands of the current time, fit to impart quality content, project-based learning, i.e., learning by doing, and standardization of syllabi. In a broad sense, the criteria followed for revamping of courses is brainstorming sessions of faculty followed by benchmarking and validation by external experts. Precisely, the revision of the existing courses principally follows the following criteria:

- Analysis of the feedbacks from the students and subject experts from various fields.
- Referring the syllabus of reputed institutions of the country
- Adopting the guidelines of regulatory bodies
- Considering the suggestions given by the experts from industries and research organisations
- Incorporating the suggestions of Academic Council Members

1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

The university offers certain value added courses meant for skill development of students that include learning communication skill and computer literacy courses for all.

1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

NA

1.4 Feedback System

Feedbacks from students, faculty members, academicians, researchers and civil society constitute the corner stone of enriched curriculum structure and contents. The university gives utmost importance to these feedbacks while redesigning the syllabi of various programmes. The Academic Council also provides an opportunity to elicit the feedback from the experts from the industries and academia. All these feedbacks are given due importance for curriculum enrichment and they are made use of at the time of revision.

1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The feedbacks of the students about the curriculum are obtained informally by the subject teachers and Centre Heads which are taken into consideration while restructuring the curriculum. However, efforts are in process to introduce the system of formal feedback collection from existing and old students, employers, civil community, academic peers, industry and parents by IQAC of the university.

1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

The centres of the university periodically organize seminars, workshops and conferences where people from industry, academia and research are invited at the national/international level. Their feedbacks are also taken into consideration while revamping the curriculum. Feedback has also been obtained from the visitors under MoU with foreign universities, invited distinguished scholars, UGC visiting fellows, etc. Online discussions are also held by the faculty members to upgrade the curricula to meet global challenges.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

NA

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

Strict adherence to the model curriculum suggested by regulatory bodies like UGC, etc. leads to sustenance and quality enhancement. Besides, the following points are also noteworthy in this context:

- ❖ Introduction of postgraduate programmes in cutting edge areas.
- ❖ Balanced curriculum revision of UG/PG courses interwoven with employability cum entrepreneurship skills and social orientation component.
- ❖ Academic flexibility to pursue an extra Diploma/Certificate programme.
- ❖ Revising the curriculum with a focus on need based courses and current trends
- ❖ Introduction of interdisciplinary Courses, job oriented Courses and Skill bases Courses.
- ❖ Introducing extension programmes with social relevance.
- ❖ Introduction of Credit based system with varying optional providing flexibility to the students to study the subjects of their choice of interest.

CRITERION-II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the university ensure publicity and transparency in the admission process?

Admission in all the courses offered by Central University of Jharkhand is done through the Central Universities Common Entrance Test (CUCET). It not only provides a single window opportunity to students to seek admission to different courses of the university, it also ensures ensure publicity and transparency in the admission process. Students are admitted to all the courses being offered at CUJ through CUCET. is conducted for, namely - Undergraduate Courses, Undergraduate Lateral Entry Courses (Admission to 2nd Year of M.A. in Chinese / Korean / Tibetan), Integrated Post - Graduate Courses, Post - Graduate Courses, Post - Graduate Lateral Entry Courses and Ph.D. Courses.

2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).

Criteria for admission to various Programs:

- (ii) Merit with entrance test for Integrated Masters program(s)
- (iii) Merit, entrance test and interview for Ph.D.
- (iv) Common Entrance Test conducted by National Agencies: CUCET.

(A) Admission Instructions for Integrated Masters program(s):

The process of admission put in place by the university is explained in a stepwise manner in the following lines:

Process of Admission: The admission process takes place in two steps - Written examination and Counselling.

Written Examination:

Notification that is announcement usually in March every year. It consists of the following steps:

- Announcement of the date of commencement of Online Application Form for Programmes and intimating the last date for applying for various Programmes.
- Date of commencement of Online Application Form.
- On line intimation to students for downloading of Hall Tickets.
- Announcement of the date of CUCET.
- Date of declaration of CUCET Exam Results.
- Intimation to students for downloading Results.

Counseling: The category-wise cut-off score is announced and applicants are advised to report to the Admission Office on a pre-announced date. The venue and reporting time is also intimated to the candidates.

The applicants, who have applied for more than one course, are advised to mandatorily report for every course separately.

Among the reported applicants, the category-wise merit list is prepared. The process of document verification and admission starts after preparation of Merit List. Failure to report on the concerned date leads to cancellation of claim for admission and the seat are awarded to the next applicant in the merit list. It is also communicated to the applicants that mere appearing of name in the Merit List and being called for counseling does not guarantee admission. It is also intimated that it would be confirmed subject to category-wise availability of seats, fulfilling of eligibility criteria along with submission of fees and verification of requisite original documents/certificates as per requirement.

Reservation policy is strictly adhered to as per GoI norms. The admission for 40 seats in each Center is taken as per the following distribution:

Number of Seats Category	Number of Seats
Unreserved	20
OBC (Non-Creamy Layer)	11
Scheduled Caste	06
Scheduled Tribe	03
TOTAL	40

There is 3% Horizontal Reservation for the Differently Abled (PH) applicants subject to production of certificate from the appropriate authority and one seat reserved horizontally for sports quota applicant(s). Similarly reservation of students from J&K is followed.

Subsequent counseling sessions also take place and dates are informed subject to availability of Vacant Seats. Applicants are advised to visit the website for latest updates. The number of vacant seats is flashed on the website.

The methodology for the preparation of merit list for 5 years Integrated program is explained as follows:

Applicant's CUCET Score - 68 out of 110 = 61.81 %
Applicant's 10+2 marks - 493 out of 600 = 82.16 %
70 % weightage for CUCET Score - $61.81 \times 7 = 432.72$
30 % weightage for 10 + 2 marks - $82.16 \times 3 = 246.50$

TOTAL SCORE - 679.22

The methodology for the preparation of merit list for Ph.D. program is explained as follows:

	Weightage (%)	Criteria
A	30	Marks obtained in CUCET-2014.
B	10	For having qualified UGC/CSIR - NET (without JRF) in the concerned/relevant discipline or having valid GATE score in the concerned/relevant discipline.
C	20	For UGC-CSIR JRF or any other fellowship obtained through national level examination in the concerned/relevant discipline.
D	10	For percentage of marks obtained in the Post-Graduation Degree in the concerned/relevant discipline.
E	30	Personal Interview.

The following documents are required on the Day of Counseling:

1. Certificate/Mark sheet of X and XII or equivalent examinations for 5 year Integrated programs.
2. Certificate/Mark sheet of UG and PG examinations for Ph. D. programs.
3. Migration-Certificate/No objection Certificate from the last attended Board/University.
4. School/College Leaving Certificate or Transfer Certificate.
5. CUCET Hall Ticket & CUCET Score Card
6. Certificate of representing India or state in any sport/game (for those who have applied under sports quota).

7. SC / ST / PH / OBC-Non Creamy Layer Certificate issued by appropriate authority in the proper format.
8. Five (colour) passport size photographs.
9. Admission Fees (as per your opted course/s)
10. Anti-Ragging Affidavits are also to be submitted by a specified date, if the applicant is admitted.

Applicants are required to bring all the above documents (original + 1 self-attested photocopy) placed in a yellow coloured A-4 size envelope on the day of counseling. No time extension is provided for producing any of the above mentioned and failure in producing the same leads to cancellation of claim of admission. During the process of admission, it is notified for information of all aspirants for admission at Central University of Jharkhand about the hostel facility that is made available on merit-cum-distance basis. The fee structure is also informed to the candidates and they are required to follow the same.

Separate notices are issued for the following categories as per GoI norms:

1. OBC (Non-Creamy Layer) Applicants
2. OBC (Non-Creamy Layer) applicants should produce certificate in a prescribed format. (It is informed that BC-I/BC-II/SEBC/Caste-Certificate/*Jaati Praman Patra* or any other Certificate issued in any other format is not entertained.
3. OBC applicants are also required to sign a declaration about their “non-creamy layer status” in the prescribed format
4. In case of non-providing of certificate on the stipulated counseling-cum-admission day, the candidate is treated in unreserved category.

SC/ST Applicants

1. SC/ST applicants should produce certificate in the format
2. In case of non-providing of certificate on the stipulated counseling-cum-admission day, the candidate is treated in unreserved category.
3. Request for extension of date for providing the SC/ST certificate is **NOT** entertained under any circumstance.

Differently Abled (PH) Applicants

As per Govt. of India norms, three percent (3 %) Horizontal Reservation is provided for Differently Abled (PH) applicants.

1. For availing this reservation, such applicants need to produce medical certificate from the authorized medical officer.
2. Special care is taken that the certificate bears the photograph of the applicant and the disability percentage should not be less than 40 %.

Anti-Ragging Affidavits

According to the UGC guidelines and orders of the Supreme Court of India, every applicant who is admitted to any course of the University needs to submit two (2) Anti-Ragging Affidavits (One sworn by the applicant and the other by his/her parent/guardian) as per the format of the affidavits that is appended in the Notice.

Once the applicant is provisionally selected for admission, he/she shall have to submit the two affidavits by a specified date.

The notice for admission also includes details about Ranchi and the travel route including the time taken to reach CUJ and the approximate fare taken by different modes of transport. Details about accommodation are also provided.

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

The university is a non-affiliating (unitary) university.

2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

The university does have a mechanism to review its admission process and but not the student profile. The review mechanism takes place after the admissions are over and if it is observed that the admissions is very low in any particular Centre (s), then CUJ does make announcement for filling up vacant seats through another entrance test by the University. The prescribed admission criteria are adhered to, as in CUCET. Review is also done to ascertain possibilities of improvement of the process.

2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- ❖ SC/ST- reservation policy as per Govt. of India norms is followed.
- ❖ OBC reservation policy as per Govt. of India norms is followed.
- ❖ Women – Percent of Women admitted as students and recruited are appreciably high.
- ❖ Persons with varied disabilities – efforts are being made in the new campus for barrier free access and other facilities for persons with disabilities.
- ❖ Economically weaker sections - Providing free-ship.
- ❖ Outstanding achievers in sports and other extracurricular activities

In order to increase/improve access for students belonging to the given categories namely SC/ST, OBC, Women, and Persons with varied disabilities,

economically weaker sections and outstanding achievers in sports and other extracurricular activities is done as per the prevailing Government of India rules.

2.1.6 Number of students admitted in university departments in the last four academic years:

	Year 1		Year 2		Year 3		Year 4	
	2011-12		2012-13		2013-14		2014-15	
Categories	Male	Female	Male	Female	Male	Female	Male	Female
SC	10	04	14	06	20	16	25	12
ST	10	08	14	12	41	27	20	23
OBC	43	21	41	45	130	80	121	61
General	72	84	115	124	234	188	126	125
Others	-	-	-	-	-	-	-	-

2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase/ decrease.

Yes. The University has done some exercise to ascertain the demand ratio for the various programmes of the university departments through the number of application for CUCET examination. It has been found that most of the students are from Jharkhand and Bihar; students from other states have also taken admission in the different programmes of CUJ.

2.1.8 Were any programmes discontinued/ staggered by the university in the last four years? If yes, please specify the reasons.

No programme has been discontinued/ staggered by the university in the last four years.

2.2 Catering to Student Diversity

2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

The orientation / induction programme is organized for the new entrants at the start of every year in the form of an Introductory session where the Vice Chancellor, Deans, senior members of the faculty and chairman of the Anti-ragging Committee addresses the students and inform them about CUJ, its environment and the do's and don'ts. They are also conveyed as to what is expected of them during their stay at CUJ. A separate session is also organized

for the senior students and they are informed about their duties and responsibilities as seniors towards their juniors.

A separate induction session is also organized for the new entrants every year by every Centre wherein the new students are informed about the rules and regulations, pattern of examination, continuous internal assessment, and other activities pursued by the Centre. In this session, the faculty members try to assess the students' needs and skills and it provides as important data subsequently while teaching. The students are also made aware of the scope of the course and placement opportunities after the completion of the course. As most of the students admitted hail from rural areas and have completed their plus two education and often in the regional language (Hindi Medium), the Faculty members take special care to assess their level of understanding of English (the medium of instruction) and impart support to such students. As part of this initiative, they are also put through the English Language Lab and a course on Communicative English that enables them to enhance their understanding of English. The students are also acquainted about the academic and non-academic programmes (like sports, music etc. in University).

2.2.2 Does the university have a mechanism through which the “differential requirements of the student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

The university does not have a structured framework to analyse the “differential requirements of the student population” after admission and before the commencement of classes, since the students are admitted after an Admission Test in which their capabilities required to undergo a particular course are assessed. However, considering that, many of the students hail from institutions with Hindi as the medium of instruction, the students are exposed to a course on Communicative English, Personality Growth Lab and Inter-personal skills, as per the need. Also, stress is given in appropriate courses (like Business Administration and Mass Communication) to acquaint students to group discussions and presentation skills.

2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

The university does not offer bridge / remedial / add-on courses as there is no such course where the same could be needed.

2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

The academic growth of students including the ones from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow

learners, is done through continuous mentoring by the faculty members, done informally on a continuous basis and need-based guidance is rendered to the students to ensure their academic growth.

2.2.5 How does the university identify and respond to the learning needs of advanced learners?

CUJ encourages the advanced learners to compete in different competitions organized by academic institutions. This includes elocution competition, business plan competitions, Case presentation competitions and student exchange programmes. Students are also sent to specialized internship programmes to learn the best practices of industries and organizations. This helps them to have insights into contemporary developments in their subject areas and also enables them to share their viewpoints with a wide spectrum of academia.

2.3 Teaching-Learning Process

2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The University follows the Choice Based Credit System. It is a flexible system of learning.

Credit defines the quantum of contents/ syllabus prescribed for a course and determines the number of hours of instruction required. The CBCS permits students to learn at their own pace, choose electives from a wide range of elective courses offered by the University Centers, undergo additional courses and acquire more than the required number of credits, adopt an interdisciplinary approach in learning and make best use of the expertise of available faculty.

Course

A programme consists of a number of courses. A 'Course' is a component (a paper) of a programme. Every course offered by the University Centers is identified by a unique course code. A course may be designed to involve lectures/ tutorials/ laboratory work/ seminar/ project work/ practical training / report writing/ Viva voce, etc or a combination of these to meet effectively the teaching and learning methods and the credits may be assigned suitably.

Semesters

An academic year consists of two semesters with instructional contact of four months in each of the semesters. The Odd Semester (I, III, V, VII and IX Semesters) runs during August to December while the Even Semester (II, IV, VI, and VIII Semesters) are conducted during: January to May a semester normally extends over a period of 15 weeks. Each week has 30 hours of instruction spread over a 5 day week.

Credits

Credit defines the quantum of contents / syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the courses, credits will be assigned on the basis of the number of lectures/ tutorials/ laboratory work and other forms of learning required to complete the course contents in 15 week schedule.

1 Credit = 1 hours of lecture per week (1 Credit course = 15 hours of lectures per semester)

3 Credit = 3 hours of instruction per week (3 Credit course = 45 hours of lectures per semester)

Instruction can take the form of lectures / tutorials / Laboratory work / fieldwork or other forms. In determining the number of hours of instruction required for the course involving laboratory work/ field work, three hours of laboratory/ field work is generally considered as equivalent to one hour of lecture.

Core Courses

Core courses are those, knowledge of which is deemed essential for students registered for a particular master's programme. As such all core courses shall be mandatory and a student must pass in all the core courses prescribed for the programme. Where feasible and necessary two or more programmes offered by the same Centre or two different Centers may prescribe one or more common core courses. Core courses are spread over all the four semesters.

Elective Courses

Elective courses are intended to: Allow students to specialize in one or more branches of the broad subject area; or Acquire knowledge and skills in a related area that may have applications in the broad subject area; or bridge any gap in the curriculum and enable acquisition of essential skills (e.g. statistical, computational, language, communication skills, etc); or Help pursue an area of interest to the student

Self-study Courses

A Centre may also allow students to choose three additional courses to enable them to acquire extra credits through self-study (not to be taken into account for awarding grades/class). The course will be in advanced topics in subject (core or elective) under the supervision of a faculty member. The student shall be required to make a minimum of two seminar presentations (as Sessional tests for assessment) and submit a project report. There is a provision of a viva-voce examination on the report; the distribution of marks for the project report and viva-voce 40 and 20 respectively.

1.3 Academic Flexibility

All the major academic programmes are five year Integrated Post-Graduate level. However, the exit policy allows students to opt out of the course after three years. In this case, he is awarded a bachelor's degree in the relevant subject studied by him. Also, the university offers a Choice Based Credit System (CBCS). The CBCS is a flexible system of learning. 'Credit' defines the quantum of contents/ Syllabus prescribed for a course and determines the number of hours of instruction required.

In this system, the students have the flexibility of studying 70% subjects from his/ her own course while he/ she can study the rest 30% subjects from any other Centre of the university. The CBCS permits students to:

- Learn at one's own pace.
- Choose electives from a wide range of elective courses offered by the University departments.
- Undergo additional courses and acquire more than the required number of credits.
- Adopt an inter-disciplinary approach in learning.
- Make best use of the expertise of available faculty.

1.3 Curriculum Enrichment

1.3.1 There is a mechanism of periodical review the curriculum of the College for making it socially relevant and / or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders. The curriculum of the College is generally reviewed once in three years for all the courses. While reviewing the syllabus socially relevant and job oriented contents are given due importance. The meeting of Board of Studies and Academic Council ensures changes whenever the need arises.

CUJ has well laid-out plan for revision of the existing programmes and the percentage of courses that underwent a major syllabus revision. The revision of the existing programmes is based on the following criteria:

1. Analysis of the feedback from the students and Subject Experts from various fields.
2. Referring the syllabus of reputed institutions of the country.
3. Adopting the guidelines of UGC.
4. Considering the suggestions given by the Experts from industries.
5. Incorporating the suggestions of Academic Council Members.

The process of review also includes brainstorming sessions of faculty, benchmarking and validation by external experts. The curriculum is also

reviewed periodically and enriched. The following factors are considered during this review:

1. The curriculum must be contemporary.
2. Is relevant and contextual and address demands of the current times.
3. Must impart quality content.
4. Project-based (learning by doing), and
5. Standardized.

2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

The faculty members teaching different courses provide subject-wise course syllabus to the students prior to the commencement of the academic session. The effectiveness of the process is ensured by the Head of the respective Centres.

2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

The university does not face any challenge in completing the curriculum within the stipulated time frame and academic calendar. The time table is strictly adhered to and classes are taken according to the time table. In case due to unforeseen circumstances, the classes are disturbed, the same is compensated by respective faculty members by taking extra classes and the same is intimated to the Head of the Centre. In any case, the syllabus is completed before the commencement of end semester examinations.

2.3.4 How learning is made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The University is committed to holistic development of students. As such adequate thrust is given to make learning student-centric by ensuring participatory learning, the design of courses include conceptual inputs, experimentation (where necessary), case studies, field visits, and application based learning. The focus of such approach is to give thrust on learning by doing. Assignments, quizzes, course seminars, project, industrial training and internship and industrial visits are also arranged to promote self- and participatory learning.

Efforts are made at the institute level to ensure student centric learning and knowledge management by:

1. Using ICT tools in the classrooms.
2. Providing library facilities for self – learning.
3. Organizing seminars, conferences, workshops, symposia and debates.
4. Ensuring holistic development and enhancing student learning with the help of following activities.

2.3.5 What is the university’s policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

The University has provisions for arranging lectures by experts from outside time to time to deliver lectures and/or organize seminars for students based upon areas and requirements. Experts from premier academic institutions of the country and abroad, corporate world and eminent consultants are invited from academic, research and industry arena. This is done through periodic invitation through contact and advice of academicians/ faculty members.

2.3.6 Does the university formally encourage blended learning by using e-learning resources?

The University encourages blended teaching and learning through web resources on certain topics, e-references provided by the faculty, power point presentations and e-journals. At present, students and faculty members have access to 14,231 e-journals. In addition, students are also provided e-books and soft copies of path-breaking articles/ papers and case studies to help reinforce knowledge.

The number of online e-journals available on different subjects is given below:

SI. No.	Resource Name	No. of Journals
1.	Springer Link	1763
2.	Taylor & Francis	1173
3.	Science Direct	1036
4.	Wiley-Blackwell Publishing	908
5.	Cambridge University Press	224
6.	Oxford University Press	206
7.	American Chemical Society	46
8.	Royal Society of Chemistry	29
9.	American Institute of Physics	18
10.	American Physical society	10
11.	Economic & Political Weekly	1
12.	JSTOR	2073
13.	Open Source Journals	6744
	Total	14231

In addition, the CUJ library has an online database of ISID, JCCC, MathSciNet and KNIMBUS. The University also has access to the open educational resources such as INFLIBNET and EDUSAT.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?

- a) Virtual Laboratory facility is being planned for next phase development.
- b) E-learning facilities are available in institute through internet connectivity. Every faculty has a laptop facility provided by the institute.
- c) Open educational resources, as indicated above, are used by the faculty and students for teaching and learning.
- d) E-mail correspondence is encouraged

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

There is no designated group to integrate the benefits such as library portal which hosts a number of open access journals and scholarly open access magazines. However the same is being pursued by the Library Committee which consists of all the Deans and Heads of centres as members and requisite feedback. The Library also disseminates regular communication regarding promotion of open access journals and data bases for the benefit of students and the teachers.

2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?

The institute server rooms utilize the traditional classrooms as 24x7 learning places by making internet facilities available. The wi-fi connectivity along with wired network facilitates and enhances the learning space.

The students are allowed to interact with the faculty throughout the duration of the programme. In addition, fieldwork/dissertation/project works are also undertaken by students that enable them to engage themselves in learning processes into 24x7 modes.

2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

There is an elaborate mechanism of adoption of students in groups by teachers for academic, personal and psycho-social guidance, which is provided through the following:

- Counseling facility offered at the time of admission enlightening the student on selection of courses, progression and placements.
- Guidance relating to various opportunities offered by the institute Placement Cell and their orientation programmes.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

The following innovative teaching-approaches/methods/practices adopted by the faculty in the institute:

- e – learning
- Panel discussions
- Seminar presentations
- Group discussion
- Brain storming on issues/problems
- Role Plays
- Business simulation Games
- Outdoor learning activities

2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

The creativity is nurtured through:

- Classroom inputs on problem-solving issues.
- Peer-to-peer interactions.
- holding debate, quiz and other competitions for students.
- Organizing academic and cultural events at CUJ.
- Encouraging students to participate in academic, sports and cultural events in other state and national level competitions organized by other academic institutions.

2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

- **Number of projects executed within the university**
- **Names of external institutions associated with the university for student project work**

- **Role of faculty in facilitating such projects**

Yes, to a large extent. Project work/dissertation becomes an important component though not mandatory, all Centres give thrust to students.

The programmes of the University Centres have project work as a part of the curriculum, wherein, students submit dissertations on their project work. The students are also encouraged to do their project work in other research institutions/universities and industries.

Students carry out project work at reputed National Research Institutions. Students of, MBA, Mass Communication Centres and other Centres carry out internships in industries between three to six months duration. In all such external linkages, Faculty Members play the role of facilitator and single point contact for the host institution.

2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

In the University, each Centre has its own faculty members to offer different courses as per the syllabus. Wherever there is shortfall, human resource is supplemented by appointing temporary teachers on contract basis or by inviting visiting guest faculty as per the UGC rules. Most of the guest faculty are drawn either from nearby universities and research institutions. Faculty at Centre level updates the curriculum by discussing the course content with external experts through emails and also by inviting them for interaction. There is also provision for external members on the Board of Studies to advice in such matters.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?

Faculty members are well versed with computer-aided teaching and all the Departments are provided with computer aided facilities including LCD Projector. The University has provided laptops to the faculty members. Video conferencing facility is available. Internet connectivity/ Wi-Fi have also been expanded to classrooms and laboratories.

The classrooms of the Centres are also equipped with desktop and LCD/overhead projectors, audio-video and internet facilities. These facilitate computer-aided teaching and the use of educational software packages.

2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

University has a mechanism for collecting feedback from the student about the course content and teaching at the end of each semester. Student feedback of the course content and teacher is one of the parameters for Academic Audit.

2.4 Teacher Quality

2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

All Assistant Professors of the University are required to attend Orientation Programmes and Refresher Courses, organized by the Academic Staff Colleges of any university. The faculty members are also actively engaged in research and update their knowledge with latest information on a regular basis. The Faculty members are encouraged to take part in summer/winter schools/training, workshop and seminars at National and International levels in their respective specialization.

2.4.2 Furnish details of the faculty

Highest Qualification	Professors		Associate Professors		Assistant Professors		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	9	0	8	2	45	7	71
M.Phil.	0	0	0	0	4	1	5
PG	1	0	0	0	22	5	28
Temporary Teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	10	3	13
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	11	4	15
Part-Time Teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	6	2	9
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	6	0	6

2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

Department / School	% of Faculty from the Same university	% of faculty from other universities within the State	% of faculty from Universities outside the State	% of Faculty from other countries
Centre for Mass Communication	0	0	90	10
Centre for Business Administration	0	30	70	0
Centre for Applied Mathematics	0	40	60	0
Centre for Applied Physics	0	0	100	0
Centre for Applied Chemistry	0	0	100	0
Centre for Life Sciences	0	0	100	0
Centre for English Language	0	10	90	0
Centre for Far East Languages	0	0	100	0
Centre for Nanotechnology	0	0	100	0
Centre for Energy Engineering	0	17	83	0
Centre for Indigenous Culture	0	0	100	0
Centre for Tribal & Customary Law	0	20	80	0
Centre for Tribal Folklore, Language & Literature	0	17	83	0
Centre for Water Engineering & Management	0	0	100	0
Centre for Land Resources Management	0	43	57	0
Centre for Environmental Sciences	0	0	100	0
Centre for Human Rights & Conflict Management	0	25	75	0
Centre for International Relations	0	0	100	0
Centre for Humanities & Social Sciences	0	0	100	0
Centre for Human Rights & Conflict Management	0	20	80	0
Centre for Education	0	0	100	0
Centre For Performing Arts	0	0	100	0

2.4.4 How does the university ensure that qualified faculty are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

University has taken initiative to fill-up the faculty vacancies in emerging areas like Nano- Technology, Energy Engineering, Water Engineering & Management, Land Resources Management, Environmental Sciences, Tribal & Customary Law, Tribal Folklore, Language & Literature, Indigenous Culture Studies and Far East Languages (Chinese, Korean and Tibetan). The University has also taken adequate steps to give wide publicity through

website and newspapers to recruit qualified faculty members in the emerging areas. The University has an ordinance for constituting the selection committee based on UGC guidelines.

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

Emeritus: Nil Adjunct Faculty: Nil Visiting Professors: Nil

2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?

The faculty members of the University are deputed to attend seminars, in service training within/outside India. The Academic Staff College of the University is conducting Orientation Programmes and Refresher Courses for the teachers of the University and affiliated colleges. The University Departments are organizing national seminars and conferences with the grants of UGC and other agencies.

The University has set policies to enhance the academic quality and research of the faculty by providing research grants out of its own sources in addition to the sponsored/individually applied/institute initiated research programmes. This is ensured by sanctioning long duration study leaves to the faculty for the research within India and abroad.

Granting duty leave to the faculty for participating in national and international seminars, conferences, workshops and training; the financial assistance to the faculty is being provided by the University. The faculty is also encouraged to submit major research projects to different funding agencies.

2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

- **Prof. A.N. Misra** received Fulbright scholarship to attend Academic Administrators Seminar in USA. Oct-Nov 2013.
- **Prof. A.N. Misra** participated in a meeting with member(s) of EU delegation to India at Ranchi on “Possibilities of Research & Innovation Cooperation with Europe: Awareness Raising and Information Campaign in India”
- **Prof. A.N. Misra** visited Czech Academy of Sciences, Institute of Microbiology, Trebon as a INSA-CAS overseas visiting (exchange) fellow 2013-14 during 14.09.13 to 04.11.2013
- **Dr. Arun Kumar Padhy** received Shastri Indo-Canada Faculty Mobility Program (November, 2013).

- **Prof. A.C. Pandey** has been awarded with a Certificate of Appreciation from SERVIR Capstone Fellowship Program supported by AAG, NASA, USAID and ESRI in April 2014 at Washington DC and Tampa, FL, USA.
- **Dr. V.K.Tripathi** has been empanelled as Individual National Level Expert (NEL) for the Ministry of Drinking Water and Sanitation, Govt. of India (November, 2013).

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Academic Staff Development Programmes	Number of Faculty
Refresher Courses	25
HRD Courses	14
Orientation Programmes	58
Staff Training Conducted by the University	Nil
Staff Training Conducted by Other Universities	17
Summer/Winter Schools, Workshops, etc.	60

2.4.9 What percentage of the faculty have

- been invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies? **11%**
- participated in external Workshops /Seminars / Conferences recognized by national / international professional bodies? **67%**
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies? **67%**
- teaching experience in other universities / national institutions and other institutions? **23%**
- industrial engagement? **7%**
- international experience in teaching? **3%**

2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?

- Academic development programmes are conducted by the Academic Staff College of the University as per schedule approved by the UGC.

- Through the Academic Staff College, University regularly organizes Orientation, Refresher courses and other short term training programmes for teachers to enrich the teaching – learning process.
- The University has constituted One Chair – Babu Jagjivan Ram Chair. The modalities to make it operational are in progress.
- The University regularly organises special programmes in Language and Literature through inviting eminent writers and critics.
- As a part of the industry-institute interface, the University organizes regular interaction with industry experts.

2.4.11 Does the university have a mechanism to encourage

- **Mobility of faculty between universities for teaching?**
- **Faculty exchange programmes with national and international bodies?**

If yes, how have these schemes helped in enriching the quality of the faculty?

As the University is in its formative stage (CUJ is only 6 years young) and the faculty members are actively engaged in building the intellectual and emotional infrastructure of their Centres, faculty exchange programmes with other universities and national and international bodies are chalked out. However, it is an integral part of CUJ's growth and development plan. The senior faculties visit outside (within and outside India) Universities for teaching and collaborative research. Few exchange programs are already initiated through USIEF, INSA, DST, FICCI and other Inter/National funding agencies for Faculty exchange programs. We are foreseeing overseas visitors to visit CUJ under GIAN programme of MHRD, GoI.

At present, the university invites senior professors from other universities to deliver lectures to students. The scheme of Guest Lectures is also implemented to have interactions of our students with the outside university experts.

2.5 Evaluation Process and Reforms

2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?

The evaluation methods are communicated to the students at the beginning of the semester.

- The evaluation of students is accomplished through continuous evaluation. This consists of structured Sessional tests and end-semester examinations. In addition, quizzes, presentations and assignments are subjected to students regularly.

- The answer-sheets are shown to the students after every Sessional tests and end semester examination.
- Evaluation of students for each course is presented before a moderation committee also which consists of all faculty members of the Centre. Suggestions (if any) are incorporated by the concerned faculty members.
- Results of each semester are announced in a time bound fashion by the academic section of the University.

2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

Since its inception in 2009, CUJ has introduced the innovative system of Grading for all its courses. This system, called Choice Based Credit Semester System (CCSS) is now well established.

The Choice Based Credit System is a flexible system of learning. ‘Credit’ defines the quantum of contents/ Syllabus prescribed for a course and determines the number of hours of instruction required.

In this system, the students have the flexibility of studying 70% subjects from his/ her own course while he/ she can study the rest 30% subjects from any other Centre of the university. The CBCS permits students to:

- ❖ Learn at their own pace
- ❖ Choose electives from a wide range of elective courses offered by the University departments
- ❖ Undergo additional courses and acquire more than the required number of credits
- ❖ Adopt an inter-disciplinary approach in learning
- ❖ Make best use of the expertise of available faculty

(What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the university for the publication of examination results e.g. website, SMS, email, etc.).

The University usually takes 30 to 40 days for publication of results. The results are published and put up on the Notice Board. To ensure smooth conduct of examination and evaluation, the Examination Branch sets up a special cell during every end semester examination.

2.5.3 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

The students' academic progress is monitored regularly by adopting the strategy of continuous internal assessment (through Sessional Tests), seminars, group discussion, assignments, attendance, and semester examination. 40% of the marks are assigned for continuous internal assessment through Sessional tests and 50% is for Semester examination.

CUJ has an established system of evaluation. Evaluation is done on a continuous basis, three times during each semester. For the purpose of uniformity, particularly for interdepartmental transfer of credits, there is a uniform procedure of examination to be adopted by all Centres. There are two Sessional tests and one End semester examination in each course during every semester.

- **Sessional Test I** is usually held during the fourth week of the semester for the syllabi covered till then.
- **Sessional Test II** is usually held during the eighth week for the syllabi covered between fifth and eighth week.
- **Sessional Test III** is usually held during the twelfth week for the syllabi covered between ninth and twelfth week.

Sessional Tests (of one to two hours duration) employ one or more assessment tools such as objective test, assignments, paper presentation, laboratory work, etc suitable to the course. This requires an element of openness. The students are informed in advance about the nature of assessment. Students have to compulsorily attend the two Sessional tests, failing which they are not allowed to appear for the end semester examination. A Student is not allowed to repeat Sessional Tests. However, if for any compulsive reason the student is unable to attend the test, the prerogative of arranging a special test lies with the teacher. In case of students who have not attended any of the Sessional tests due to medical reason or under extraordinary circumstances, a separate test is conducted before the End Semester Examination by the concerned faculty member.

The Sessional tests carry 40% (20%+20%) of total marks for the course. The marks of the best of two Sessional Tests are taken into account for the computation of Grades.

There is one End semester examination of 3 hours duration carrying 60% of Marks in each course covering the entire syllabus prescribed for the course. The End semester examination is normally a written / laboratory –based examination. The mode of End semester examination and evaluation is decided by the teacher in consultation with the School Committee. Model Question Paper for each course is prepared by the teacher and the same is forwarded to the Head of the Department.

End semester Practical examinations are normally held before the theory examinations.

Valuation of Project Report / Dissertation and Viva-Voce

The distribution of marks for the dissertation will be as below;

- ❖ Periodical presentation --20 Marks
- ❖ Concise Dissertation --60 Marks
- ❖ Viva-voce --20 Marks

Total 100 Marks

Dissertation / project report is valued jointly by the supervisor and one other examiner from a neighbouring institution within the city. The Grading system of Evaluation is as per the Regulation on the University.

There is a well laid out mechanism for redressal of grievances with reference to evaluation at CUJ. After the release of the results, the students could apply for reevaluation within 21 days and is done again. Supplementary exam is conducted after one month of the publication of the result for the final year students who fail in one subject. The date of supplementary examination is published in the college website at the time of publication of results.

2.5.4 Does the university have an integrated examination platform for the following processes?

- Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- Examination process – Examination material management, logistics, etc.
- Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.

CUJ has a well-paced system of managing the examination process. While the Sessional tests are organized by the Centres under the supervision of HoD, the End-semester examination is handled by the Examination section, headed by Controller of examinations in association with the Centres. Filling up of examination forms by students and issuance of hall tickets are done by the Centres, while the preparation of nominal rolls preparation of timetable, seating arrangement and conducting the organization is done by the examination section with the help of a specially constituted cell – Examination Cell headed by a Examination Superintendent who is a professor of the university.

A student must have attended a minimum of 75% of the lectures, seminars, tutorials and preceptorials organized by the Department/Centre during a Semester to be eligible to appear at the End Semester examination.

The distribution of question papers, answer sheets and additional sheets and other stationery materials related with examination is provided to the

examination cell by Examination Centres before/ during the commencement of the examinations.

The University takes every measure to ensure that malpractices of any sort are not taking place at the examination centres. To ensure this, the examinations are conducted under the strict supervision of the invigilators. The Examination Cell also sets up squads to check malpractices in the examination centre. At present, fee from the candidates/students are collected through Bank remittances.

The post-examination process – Attendance capture, exam result and issuance of Mark sheets/ Certificates is done by the office of the Controller of Examinations.

After the examination, the University collects answer scripts from various centres, detaching counterfoils of the scripts and gives it to faculty members for evaluation. On completion of evaluation, the same is tabulated and marks/grades are intimated to the students through the Notice Board.

2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?

The process for Ph.D. evaluation is described in the CUJ Ordinance.

- The first step of evaluation is in relation to the course work. Such courses are formally examined and the grades obtained therein will be reflected in the final result. It is mandatory for the scholar to pass the examination in all the courses, prior to her/his submission of thesis.
- The progress of evaluation is subsequently monitored periodically by the Supervisor. If the Supervisor finds that the progress of the work is not satisfactory, a report to that effect is submitted to the School Board through the Department/Centre of Studies for appropriate action.
- When the Supervisor is of the opinion that the thesis is in the final stage of completion, the scholar is required to give a pre-submission seminar on her/his research findings, well in advance. This seminar will be given in the presence of a Committee of at least three faculty members including the supervisor, of which one will be from outside the Department/Centre of Studies. The candidate may incorporate the recommendations of the Committee in the thesis.
- Once the thesis is complete, the Supervisor is required to submit a panel of six names of examiners including the supervisor in the prescribed proforma to the School Board through the Head of the Department/Centre of Studies for approval and submission to the Controller of Examinations. The School Board also has to submit a copy of the panel of examiners to the Chairman of the Academic Council.

- The thesis submitted by the candidate for the Ph.D. Degree is examined as per the rules of the University.

2.5.7 Has the university created any provision for including the name of the college in the degree certificate?

CUJ is a non-affiliating university; hence not applicable.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

The answer scripts of all the tests and end semester examination are shown to the students to bring about transparency and eliminate grievance, if any. To further redress the grievance of students, reevaluation of answer paper is allowed the students. In case of any grievance, students can put their grievance to the examination section through the HoD and apply for scrutiny.

2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.

To streamline the examination process the Examination Branch publishes the Examination Calendar for every year well in advance in the University website. This facilitates the Examination Section and the Centres to conduct the examinations as per the schedules and to publish the results within the stipulated time. The data management system pertaining to examination is computerized to a great extent and the tabulation sections are done with great care. Specific work distribution/division has been made in the case of each Section. As a result of all these, the efficiency of the Branch has been increased, and appreciated by the stakeholders.

2.6. Student Performance and Learning Outcomes

2.6.1 Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

The Steering Committee of the Centres, Boards of Studies and Academic Council ensure graduate attributes in various levels. They also promote the students for improving their quality through their participation in seminars, workshops, discussions, soft skill development and preparation of projects.

2.6.2 Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?

The university has clearly stated learning outcomes for its academic programmes. The learning outcomes are clearly stated in the curriculum of each course. The faculty discusses the expected learning outcomes at the induction of the students at the University. Planning of the lessons semester wise and its implementation by the faculty is done keeping in view the

learning outcome. The learner is acquainted with the learning outcomes at the induction program by the institute faculty.

The learning outcomes are collected through the regular informal interaction in the classes, periodical tests, internal assessment scheme, home-assignments, seminar presentations, small project reports and mid-term examination as well as semester examinations. Students are also encouraged to interact with faculty as per need. Slow learners are identified and counseled individually in case of specific difficulties, and the faculty members themselves work out the strategies suitable to enable students to learn.

2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

The university's teaching, learning and assessment strategies have been structured well to facilitate the achievement of the intended learning outcomes. The learning and assessment strategies encompass a modular approach that consists of three basic steps: creating learning objectives, implementing learning value to the students and assessment of learning outcomes through feedback.

Learning value is created by designing the course syllabus that could address contemporary issues and is meaningful to the present day needs of industry/ society. The strategy is implemented by adopting a systematic approach to curriculum design, structuring the time table to implement the curriculum so that the courses are delivered to the students most effectively. Implementation also includes the contemporary pedagogy that is able to create learning a meaningful component for enhancing the knowledge and skills of students. As indicated earlier, assessment of learning outcomes is ensured through feedback from students every semester.

2.6.4 How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?

As per the guidelines of Internal Quality Assurance Cell (IQAC) of National Accreditation and Assessment Committee (NAAC), the University distributes student feedback-form through the Centres and collects the feedback. The student feedbacks are analyzed and modifications, if any, are implemented on time to time.

2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?

The university has deployed and facilitated the new technology by providing campus network, which caters to the needs of all students. The library is well-equipped with adequate facilities to access the e-journals, e-books and open source information resources. Hostels are also provided with

internet facility. The laboratories and classrooms are well equipped with teaching aids like computers and LCD. Every classroom is connected with internet facilities. The teachers uses LCD in the classroom for effective teaching and students use it for their seminar /project presentations. The students are free to interact and get their doubts cleared in the classroom itself.

Increased infrastructural facilities developed in the last six years have enabled the teachers to be more effective in imparting the latest developments to the student community both by teaching and by counseling. The increasing rate of placements, increasing number students being associated with international institutions for research and student success in diverse fields reflects the outcome of planned and programmed teaching and learning. The wi-fi connectivity and wired network enables introduction of IT in class rooms.

The evaluation process is absolutely transparent and secure. The internal assessment marks are notified on the notice-board, discrepancies if any, are attended immediately. The academic section takes minimum time to respond the examination related queries by the students. The feedback of the teachers from the students also helps in enhancing the teaching –learning capabilities by overcoming the barriers.

CRITERION - III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

There is a consensus that research-intensive universities are the engine room of long-term, sustainable growth and prosperity. Research develops critical thinking, creativity, problem solving, self confidence, and intellectual independence. It promotes an innovation-oriented culture. The Central University of Jharkhand has been constantly putting efforts towards achieving excellence in teaching as well as research so as to justify its vision, mission and objectives.

3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

The university has a Board of Research Studies to encourage and support the teaching staff to undertake various research activities. The Board of Research Studies comprises Chairperson who is the Vice-Chancellor of the University.

The centres offering Ph.D. programmes have Centre level Research Committees as per the provisions made in the Ph.D. rules and regulations. The Centre level Research Committee comprises Chairperson who is the Head of the Centre. All faculty members having the designation of 'Professor' are the members of the committee, one Associate Professor of the Centre (on rotation basis) is a member, and all guides/supervisors are also members of the Research Committee. This Research Committee also has one/two external members. The committee meets as and when required, to discuss the problems of Ph.D. students. The recommendations of the Research Committee are placed in the university level Board of Research Studies for appropriate decision making.

The Board of Research Studies has certain important recommendations including encouraging interdisciplinary research, collaborative research, publishing research papers in high quality journals, and undertaking sponsored/consultancy projects by faculty members.

3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?

The university is non-affiliating (unitary) university.

3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?

- ❖ **Advancing funds for sanctioned projects:** The University advances funds for sanctioned projects of newly joined eligible faculty members. The university proactively forwards all submitted project proposals to funding agencies. The funds received from funding agencies are made available for the concerned projects immediately as per university and/or funding agency rules and regulations.
- ❖ **Providing seed money:** The university has no provision of advancing seed money to create research base. However, system is in place to provide seed money for set up of research lab etc., as and when such funds come from external agencies.
- ❖ **Simplification of procedures related to sanctions / purchases to be made by the investigators:** The University has a simplified purchase committee to facilitate purchase of materials and equipment required for research projects.
- ❖ **Autonomy to the principal investigator/coordinator for utilizing overhead charges:** The University has provided autonomy to principal investigators/coordinator/Directors of research projects to utilize overhead charges as per the university and/or funding agency rules and regulations. The principal investigator has the autonomy to choose project investigators, assistants, associates, field workers, and other project dependent personnel based on the norms of funding agencies.
- ❖ **Timely release of grants:** The University always strives to release the research grants in time. It is attained through efficient financial governance system of the university.
- ❖ **Timely auditing:** The system is in place for timely auditing of the expenses incurred in research projects by the principal investigator/coordinator. Internal Audit Officer has been appointed on regular basis to accomplish this job besides other administrative/financial responsibilities.
- ❖ **Submission of utilization certificate to the funding authorities:** Efficiently the utilization certificate is forwarded by the administration of the university to funding agencies/authorities as and when desired/required by the project coordinator/principal investigator.

3.1.4 How is interdisciplinary research promoted?

- ❖ **Between/among different departments /schools of the university:** The university encourages its faculty members for undertaking interdisciplinary research activities. The faculty member of a centre, when takes up an interdisciplinary project, can utilize the facilities of other centres. The faculty members of two or more centres can jointly undertake an interdisciplinary research project or guide research scholar(s) on an interdisciplinary area of research. Experts from different fields within and

outside India are also invited to collaborate with the researchers at CUJ.

- ❖ **Collaboration with national/international institutes/industries:** There are certain collaborations with national/international institutes/industries for promoting interdisciplinary research works. These collaborative researches are funded by DST, DBT, UGC, FICCI, INSA, USIEF and other funding agencies.

3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.

The university conducted ‘computer application in research’ workshop in 2013 for all research scholars, project personnel and faculty members. The purpose was to impart hands-on training of specific software packages used in quantitative research work.

One day training programme on SPSS has also been organised in 2014 by the university in collaboration with IBM SPSS Ltd., Bangalore to impart learning on use of this software in research works.

3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

The university try its best to invite eminent researchers to visit the campus for a short-period. This has reaped fruit in formulating new research proposals and also to incorporate curriculum to the existing syllabus.

3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.

There is no such earmarking of budget as separate research head. Sometimes the requirement is met from the centre level financial grants by the university to procure research equipments, etc. Research fellowships are also available for all full time research students.

3.1.8 In its budget, does the university earmark fund for promoting research in its affiliated colleges? If yes, provide details.

The University is unitary. There is no provision for affiliated college in the Act of the University. Hence, this issue is not applicable.

3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.

The University has not made provisions so far for Post-Doctoral Fellowships. However, Research fellowships are available for all full time Ph. D. students. Externally funded PDFs are working in CUJ.

3.1.10 What percentages of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?

One faculty from the Centre for Business Administration has availed study leave in 2014 for pursuing his Ph.D. at Central University of Hyderabad, India. Another faculty from the Centre for Indigenous Culture Studies has availed study leave in 2014 for pursuing his Ph.D. at Delhi University, India. The university shall ask them for their research work status in due course of time.

3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.

Sl. No.	Name of the Centre	Name of the Conference	National/ International	Event Date(s)	Name of Eminent Scientists/Scholars
1	Applied Physics	Acquaintance Programme on Inter University Accelerator Centre, New Delhi	National	23 Nov 2012	
2	Tribal Folklore, Language and Literature	Language and Culture of Sangam Age and its Impact on Indigenous-Tribal Communities in India	National Seminar	31 st March to 2 nd April 2014	
3	English Studies	Voices from the Margin: Society, Culture and Exclusion	International Conference	20-22 Feb 2013	
4	English Studies	Text, Culture and Performance: Postcolonial Issues	International Conference	2-4 Feb 2012	
5	Business Administration	The New Leap – exploring New Paradigms in Business	International Conference	6 – 7 Feb 2014	Prof. Pradeep Taneja, Univ. of Melbourne. Prof. Sanjay Gaur, AUT, New Zealand Dr H Joshipura, MD, Glaxo India
6	Human Rights and Conflict Management	Decentralised Governance & Changing Paradox of Development in Rural Areas	National Seminar	11-12 Sept 2013	Prof. G.Haragopal Prof.Madhava Rao Dr.T.S.Anurag

7	Life Sciences	Advances in Cancer Research: Drug Discovery to Delivery	International Symposium	19 Nov, 2013	Prof. B. Ravindran (Director, DBT-ILS, India). Dr. G. Kovvali, Ed-Chief, J. Carcinog./ Dr. J. K. Vishwanatha, NTU, USA. Prof. Dr. T. Schwaab/ Prof. S. Yendamuri, Roswell Park Cancer Inst. USA.
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3.2 Resource Mobilization for Research

3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

There is no separate budget provision for students' research projects. As and when required, such need is met from centre level financial allotments and/or managed through sponsorships.

3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

The university always encourages the faculty members to undertake such projects which would give rise to patents. Till date no such patent filing has been made. However, the university has liberal policy for funding for filing national/international level patents.

3.2.3 Provide the following details of ongoing research projects of faculty:

	Year Wise	Number	Name of the Project	Name of Funding Agency	Total Grant Received
A. University Awarded Projects					
Minor Projects		Nil			
Major Projects		Nil			
B. Other Agencies – National and International (specify)					
Minor Projects			Role of target deformation on incomplete fusion dynamics during heavy iron collisions	IUAC, New Delhi	Rs. 6.75 lakh
			Study of complete and incomplete fusion dynamics by using heavy ion beams	UGC	Rs.6.00 lakh
Major			Modelling and Analysis of all-	DST,	Rs.

Projects			optical switching devices based on waveguide and photonic crystal geometry	New Delhi	24.00 lakh
			Role of target deformation on incomplete fusion dynamics in energy range 3-8 MeV/nucleon	DST	Rs.23.30 Lakh
			A cognitive account of perception verbs in Ladakh	DST	12.48 lakh
			Innovation in Delivery of Mid-day Meals Scheme: A Comparative Study of Comparative Study of ISCKON and AKshaya Patra in India	ICSSR, New Delhi	8.00 lakh
			Abrogating Authenticity with a Difference: Indian Poetry in English 1980-2000.	UGC	8.04 lakhs
			Synthesis and Characterization of Electromagnetic Wave Absorption Properties of Ferrite based Nanocomposites for High Speed Communication Applications	DST	16.44 lakh
			Plasma Surface Modifications of BMI coatings on Al sheets	DST	6.6 lakh
	2014		Centre of Excellence in Green Energy and Efficient Technology	MHRD	111 lakh
			Multi-purpose R&D pilot projects for assessing the feasibility of cost effective and sustainable technologies for drinking water storage and distribution in rural areas of Jharkhand: A pilot study at Sanga Village	Columbia Water Center, Columbia University, New York	US\$ 15,536 9.63 lakh
			Implication of changing climate on flood severity in Bihar flood plains using Geoinformatics: A case study of Kosi Basin'	MoEF, Govt. of India	38.44 lakh
	2013 - 2015	BT/PR4624/MED/30/701/2012	Evaluation of therapeutic potential of glycogen synthase kinase 3 in chewing tobacco mediated oral cancer.	DBT, Govt. of India	42.9 lakh (CUJ)
	2014 - 2019				
	2013 - 2014	T/PR9028/1NF/22/193/2013	DBT-BUILDER program in Life Sciences	DBT, Govt. of India	443.00 lakh

3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

Not yet.

3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Centre for Energy Engineering for establishing the MHRD Centre for Excellence on Green and Efficient Energy Technology (COE – GEET)

3.2.6 List details of:

a. Research projects completed and grants received during the last four years (funded by National/International agencies).

Sl. No.	Year of Completion	Name of Project	Name of the Funding Agency	Total Grant Received
1	NIL			
2				
3				

b. Inter-institutional collaborative projects and grants received

i) All India collaboration:

ii) International:

3.3 Research Facilities

3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

The university allocates annual budget for each Centre. The Grants, if any received from UGC, etc. also allotted to centres. The university encourages individual faculty member to apply to UGC, DST, AICTE, ICSSR and such other funding agencies for sponsored research projects in emerging areas.

3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

The faculty members engaged in research works and research scholars have access to INFLIBNET and all subscribed e-resources through Central

Library of the University.

3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

NO

3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

The university provides residential facilities with internet (Wi-Fi connectivity) for needy research scholars, research associates and summer fellows (if any). The university provides all facilities to all visiting scientists, both national and international, during their stay in the campus.

3.3.5 Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?

At present Centre for Life Sciences, Centre for Applied Chemistry, Centre for Energy Engineering and Centre for Applied Physics have certain specialized research labs located in the campus to address the special challenges of research programmes.

3.3.6 Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

The Centre for Life Science has recognised research labs where researchers from other laboratories often work and benefit in terms of quality and satisfactory research outcomes.

3.4 Research Publications and Awards

3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

No, The University at present does not publish any research journal.

3.4.2 Give details of publications by the faculty:

Sl. No.	Description of items	Total Number
1	Research Papers Published in Peer Reviewed Journals (national/international)	620
2	Monographs	
3	Chapters in Books	40
4	Books Edited	
5	Books with ISBN with details of publishers	27

6	Research papers Indexed in Web of Science, SCI, SSCI, SCOPUS, EBSCO Host, etc.	
7	Citation Index – range/average	
8	SNIP	
9	SJR	
10	Impact Factor – range/average	
11	h-index / i10-index:	

3.4.3 Give details of

❖ **Faculty serving on the editorial boards of national and international journals**

Sl. No.	Name of Faculty Member	Name of Journal(s)
1.	Dr L K Sharma	<ul style="list-style-type: none"> International Journal of GIS Trends International Journal of Advancement in Remote Sensing, GIS and Geography
2.	Dr.P.K.Mishra	<ul style="list-style-type: none"> Interdisciplinary Studies Journal International Journal of Management and Administrative Sciences

❖ **Faculty serving as members of steering committees of international conferences recognized by reputed organizations/societies**

Sl. No.	Name of Faculty Member	Name of Committees of International Conferences
1		
2		

3.4.4 Provide details of:

❖ **Research awards received by the faculty and students:**

❖ **National and international recognition received by the faculty from reputed professional bodies and agencies:**

3.4.5 Indicate the average number of successful M.Phil and Ph.D scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

Not yet, any Ph.D has been awarded by the university.

3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

At the individual faculty level the awareness of malpractices and plagiarism is there and few of them use plagiarism detecting software to avoid such possibilities. So far no cases have been detected and reported.

For the Ph.D research work, at the time of registration, the scholars are given clear instructions to do independent, original and quality research. The supervisors carefully go through the research proposal and ensure objectivity to avoid malpractice and misconduct. Before registration, the candidates have to submit the research proposal to the doctoral committee. The committee conducts the presentation followed by viva-voce and the candidates are insisted to do research of their own. After registration, the research progress is monitored by the doctoral committee which ask six monthly progress reports from the scholars. Similarly, before submission of thesis, the scholars are required to present their full research works in a pre-submission seminar before the doctoral committee. The scholar is not allowed to submit their thesis, if there is any malpractice or misconduct/plagiarism found at this stage. All these checks malpractice in research.

Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?

Yes, the university promotes interdisciplinary research.

3.4.7 Has the university instituted any research awards? If yes, list the awards.

No, not yet.

3.4.8 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

Faculty members are permitted to present their research papers in regional, state, national and international level conferences. Necessary funding, as per university norms and availability of funds, is provided to the faculty for support.

3.5 Consultancy

3.5.1 What is the official policy of the University for Structured Consultancy? List a few important consultancies undertaken by the university during the last four years.

Though the university has yet to develop a structured consultancy policy, the faculty members are encouraged to take up consultancy services such as testing of materials, product development, construction work, report preparation, and industrial consultancy, etc. Recently, the university facilitated the set up of the SIA unit to conduct social impact assessment of land acquisition by beneficiaries in Jharkhand under the new Land Acquisition Act, 2013.

3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

No, not yet.

3.5.3 What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?

The expertises of faculty members are indicated in the faculty profile page of the university website. The university also regularly publishes Annual Reports which states the expertise and research outcomes of faculty members

3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

Whenever any organisation approaches the University for Need of consultancy services, the university forwards such proposals to the concerned centre(s) wherein the expertise for such consultancy work is available.

3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.

NA

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

The university conducts regular extension activities and services so that education and research benefits the society at large. The university is running remedial classes for the students of +2 levels at City Centre, Kanke Road, Ranchi. The aim of this course is to improve the understanding of science subjects of the +2 level students belonging to SC/ST/Minority Community/OBC category and to prepare them for various entrance examinations held after +2 level.

The university students under the guidance of faculty members impart free classes in evening to children of class 3 to 12, hail from the neighbouring villages covering 5kms range under the banner of 'Unnayan'. About 250 such children attend these classes.

The university organises blood donation camps every year. The faculty, staff and students participate with enthusiasm and around 200 bottles of blood is donated in each camp. The faculty, staff and students also participate in plantation activities.

The students, staff and faculty of the university celebrate tribal festivals like Karma, etc. in the campus along with the village people which is also

instrumental in sensitizing the social responsibilities.

The university periodically organises tribal India festival – Akhra – an effort to encourage, popularise and increase awareness about the preservation of different aspects of tribal culture of India. A number of tribal groups covering the expanse of India from Ladakh to Tamil Nadu and Arunachal Pradesh to Gujarat graces the occasion with their whole-hearted fervour and participation. The festival features seminars on Indigenous environmental philosophy, oral narratives of tribal people, dance and music performances, a meet of tribal literati, documentary film festival on tribal life and culture, folk games, exhibitions of tribal art, handicraft, books, food culture, painting and fashion show. All these provide opportunities to all faculty members to learn the institutional values, professional ethics and social responsibility.

Students and staff are sensitized to maintain a ragging free campus. Students are thoroughly informed about the scholarships available to them. The administrative office of the university takes sincere efforts to distribute scholarship to the students on time.

3.6.2 How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?

The university is located in tribal area of Ranchi, Jharkhand which is surrounded by small tribal villages. Because of the limited hostel availability of hostel accommodation, many students stay in the nearby villages/towns. Hence, a natural neighbourhood network has been developed. Some staff, faculty and students participate in local festivals and events organized in villages and thereby contribute to community activities. The ‘Unnayan’ activities also promote university-neighbourhood network.

3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

3.6.5 Does the university have a mechanism to track the students’ involvement in various social movements / activities which promote citizenship roles?

There is well defined system is in place for keeping a track of students’ involvement in social movements/activities which promote citizenship roles. However, both students and faculty are aware about their responsibilities.

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

The students learn many things through socializing within themselves and with the community around while participating in various activities. The extension activities develops inter-personal relationship, inculcates the values of team spirit, helping each other, community participation, acknowledging others for good work, and like.

3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.

The university has not taken up any community development activities so far involving its centres. However, the Centre for Tribal and Customary Law has been recognised by the Hon'ble Supreme Court of India/High Court of Jharkhand to make hearing on customary law related cases of Jharkhand as when requested by appropriate authorities. Very recently, UGC has been agreed to provide Rs.3.60cr for a period of 5 years to a research Centre on Endangered Languages to carry out studies related to languages declared endangered, and to take necessary actions for preservation of those languages as traditional and conventional magnificence of India.

3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

3.7 Collaboration

3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?

The university takes constructive efforts for collaboration with various agencies/institutes/universities for academic, extension, research, placement and resource mobilization. Some Centres have collaboration with various agencies – government and non-government – for extensive learning and research. Collaborations have been made with South Asia Business Forum, China; Mahasarakham University, Thailand; St.Theresa International College, Thailand; and California State University, USA.

3.7.2 Mention specific examples of how these linkages promote

- ❖ Curriculum development
- ❖ Internship
- ❖ On-the-job training
- ❖ Faculty exchange and development
- ❖ Research
- ❖ Publication
- ❖ Consultancy
- ❖ Extension
- ❖ Student placement
- ❖ Any other (please specify)

3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Modern research programmes are collaborative in nature, and most of the faculty research programmes involve academics from other institutions both national and international. Some of these collaborations are formalized, and are based on Memoranda of Understanding (MoU) or other agreements signed between the participating institutions.

Realizing this, the CUJ has signed MoUs with several foreign universities – two in Thailand, two in China, one in Korea, one in USA, and one in Estonia. Visiting faculty have taken classes from a few days to two weeks, and have come from Indiana University, USA; University of Tartu, Estonia; Seoul University, Korea; University of Novi Sad, Serbia; Mahasarakam University, Thailand; University of Geneva, Switzerland; National University of Singapore; University of Missouri, USA; Korea University, Seoul; in addition to foreign visitors delivering popular lectures. Two foreign scientists – one from Egypt and one from Nigeria, spent three and six months respectively, under the DST sponsored CV Raman International Fellowship for African Researchers. One scientist from Burkina Faso joined for three months under the same fellowship. The Yunnan National Open University of China is assisting CUJ to establish an International Exchange and Learning Centre.

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

CRITERION - IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

The infrastructure facilities and learning resources are important aspects for creating the environment to enhance the productivity of both students and staff. The University has excellent infrastructural facilities including adequate air conditioned classrooms with interactive boards for classroom teaching, spacious auditorium, well equipped laboratories with sophisticated instruments with internet facilities. Apart from all a full-fledged Centralized Library is also available. The campus has a Sports pavilion with gymnasium, 20 blocks of hostels (for men and women), Internet browsing facility, Canteens. The University has a well-furnished and comfortable Guest House. A Medical cell has established in university which caters to the health care needs of students and faculty. The University has 24 hours uninterrupted power supply and additional generators in various faculties. The campus has its own water supply system also.

4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

Central University of Jharkhand has been constantly upgrading the infrastructure in the last five years to keep pace with increasing demand and additional requirements with financial assistance from UGC, DST, DBT etc. University has invested substantially over the last few years to improve the classroom and laboratory infrastructure, books and journals, and online resources for teaching, learning, and research. University ensures that all the infrastructural facilities and resources are shared. A shift system is followed for optimum utilization of classrooms and laboratories and to. Seminar halls are utilized by all the departments to conduct conferences and workshops on a sharing basis. University transport facilities are booked in advance for field trips, educational tours, industrial visits and extension activities. University Examinations are staggered and conducted in shifts to accommodate all the departments in the University. Administrative Section of the University undertakes monitoring and maintenance of all the infrastructural facilities in the University and all complaints are attended. University has a systematic planning and mechanism of the physical infrastructure. There is a Building Committee headed by the Vice chancellor comprising the expert panel of architects/engineers and members from other organization, which plans for the infrastructural facilities on the campus. University creates necessary infrastructure systematically and continuously, based on the rising requirements of the vision and mission. Central University of Jharkhand is well equipped with excellent physical infrastructural facilities like adequate

classrooms, laboratories, libraries, staff rooms, cafeteria, indoor and outdoor auditoria, conference halls, playground, hostel, administrative building, guest house, bank and health center which are sufficient enough to satisfy almost all kinds of needs. All infrastructural facilities are optimally used by the University and other social organizations. A branch of Punjab National Bank and Allahabad Bank is available for services such as remitting fees, disburse monthly salaries of the employees, scholarships to students and implementing various schemes introduced for the benefit of the institute's employees, the students and the residents of the institute area. The ATM facility is also provided by these two banks along with SBI also in campus. The cafeteria functions from 9.30 a.m. to 10:00 p.m. supplying refreshment to the students, staff, visitors and guests. University has ensured uninterrupted power supply by Jharkhand State Electricity Board. In addition to this, generators with various power capacities, invertors, UPS, and lamps are used on the campus during power failure. The playground is used to conduct sports meet for students. It is also used for sports activities such as Volley Ball, Basket Ball, Cricket, Football and Badminton.

4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes, the available infrastructure is reviewed from time to time by the Building Works Committee and the decision is taken to add to it as per the requirements arising out of new challenges in the field of teaching-learning and research. Interactions with faculty and staff helped in providing the necessary ambience. A few recent initiatives in this direction include:

- Provision of LCD projectors in centers to facilitate ICT-enabled teaching-learning resources. Well-equipped research laboratories including Language Laboratory and Computer Labs.
- User-friendly University website with updated information on all academic, administrative and cultural aspects of campus life.
- 24 x 7 h Uninterrupted Power Supply, and backup online UPS units in case of outages.
- Wi-Fi enabled departments and classrooms.
- Well-equipped Gymnasium in the University.

4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

Well furnished rooms and research laboratories in the university along with sophisticated instruments and necessary infrastructure are provided to the faculty. Centre laboratories are equipped with sophisticated/ latest analytical instruments to serve research needs. Other facilities such as scanner, printer,

and photocopier machines are provided in each center. Internet connectivity is provided to all the faculty members and research students. Labs such as communication skills and basic programming have facilitated the student community. The university provides administrative and academic support for the smooth conduct of the research projects.

4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?

Yes. Spacious office space coupled with facilities is provided.

4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?

Efforts are underway to extend these facilities throughout the University. The university has built up user friendly ramps for the benefit of persons with special needs in its new buildings.

4.1.6 How does the university cater to the requirements of residential students? Give details of:

❖ **Capacity of the hostels and occupancy (to be given separately for men and women)**

All the students' hostels are within the campus situated close to the respective faculties ensuring easy and quick access to academic facilities. The requirements of the residential students are looked after by the respective hostel wardens. The Chief Warden and the faculty also look into the problems of the residential students. The campus being residential, is fully equipped with facilities such as ATM, Bank and a canteen. Capacity of the hostels and occupancy (to be given separately for men and women. Each room is well equipped with facilities.

Hostel Occupancy

Hostel type	No. of hostels	Intake capacity	Occupancy
Men's Block	09	586	546
Women's Block	11	457	431

❖ **Recreational facilities in hostel/s like gymnasium, yoga centre, etc.**

Gymnasium, Yoga facility, Reading room with magazines, T.V. Room, etc. are provided.

❖ **Broadband connectivity / Wi-Fi facility in hostels.**

A dedicated BSNL broadband connectivity with Wi-Fi facility is available. These facilities are being extended to all hostels in a phased manner in new campus also.

4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?

Medical services are provided at the Health Centre for the students, teaching and non-teaching staff. Health Centre is equipped with basic medical facilities. In case of emergency nearest specialized hospital facility could be referred and addressed by medical officer.

4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

Central University of Jharkhand being unitary and residential with diverse disciplines provides an ideal setting for students to develop their all-round personality.

- Students are encouraged to participate in state and national level cultural, sports, and literary programs such as: Alcheringa, a National level cultural competition of IIT, Guwahati etc.
- Intramural and interdepartmental Sports, Literary, and Cultural competitions are conducted annually and students are encouraged to participate in these events.
- The Auditorium is made accessible to students over the weekends for cultural extravaganzas.
- University has necessary infrastructure to promote students' interest in sports and games. There is music periodically classes are held on music, painting and other fine arts.
- Faculties of physical education of the University take care of all the sports activities of the students.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

Yes, Library has Library Committee for recommendation of books and it advise time to time for betterment of library services for users.

4.2.2 Provide details of the following:

- Total area of the library (in Sq. Mts.) - 1219 Sq. Mts.
- Total seating capacity - 70
- Working hours (on working days, on holidays, before examination, during examination, during vacation) - 9 AM to 7 PM (Monday to Friday); 9 AM to 4 PM (Saturday)

- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) - Reading room facilities for students and one computer for accessing e-resources.
- Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection – Fire extinguisher

4.2.3 Give details of the library holdings:

- Print (books, back volumes and theses) - 19522 Books
- Average number of books added during the last three years - 3906
- Non Print (Microfiche, AV) – 562 CD
- Electronic (e-books, e-journals) – 7487 e-journals and 3 e-database
- Special collections (e.g. text books, reference books, standards, patents) – Reference Books
- Book Banks – No
- Question Banks – No

4.2.4 What tools does the library deploy to provide access to the collection?

- OPAC - Yes
- Electronic Resource Management package for e-journals - No
- Federated searching tools to search articles in multiple databases - No
- Library Website - Yes
- In-house/remote access to e-publications – In-house

4.2.5 To what extent is ICT deployed in the library? Give details with regard to

- Library automation – Yes, with Liberty Library Management Software.
- Total number of computers for general access- One
- Total numbers of printers for general access
- Internet Bandwith Speed – 1GB
- Institutional Repository
- Content management system for e-learning
- Participation in resource sharing networks/consortia (like INFLIBNET)

4.2.6 Provide details (per month) with regard to

- Average number of walk-ins - 4280
- Average number of books issued/returned – 2800/3058
- Ratio of library books to students enrolled – 9:1
- Average number of books added during the last four years – 4210/Year
- Average number of login to OPAC
- Average number of login to e-resources - 1968
- Average number of e-resources downloaded/printed - 1968
- Number of IT (Information Technology) literacy trainings organized

4.2.7 Give details of specialized services provided by the library with regard to

- Manuscripts
- Reference
- Ready reference and long range reference service
- Reprography/Scanning – To its members only
- Inter-library Loan Service
- Information Deployment and Notification
- OPACS
- Internet Access - Yes
- Downloads - Yes
- Printouts - individuals
- Reading list/ Bibliography compilation
- In- house/remote access to e-resources – In-house access to e-resources
- User Orientation – yes (Individual)
- Assistance in searching Databases - Yes
- INFLIBNET/IUC facilities

4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

Annual Library Budge: Rs. One Crore

Details of amount spent on purchasing new books and journals:

2010 – 11: Rs. 65, 65,718.00

2011 – 12: Rs. 63, 06,211.00

2012 – 13: Rs. 49, 14,582.00

2013 – 14: Rs. 41, 05,980.00

4.2.9 What initiatives has the university taken to make the library a ‘happening place’ on campus?

Library is organizing Book Exhibition every year and during the AKHRA Tribal India Festival. In 2013 the theme of Book Exhibition was on Tribal, Culture & Society to make the people aware about the culture of tribal people.

4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

User provides us valuable suggestion time to time for improvement of the library services and library always welcomes their valuable suggestion.

4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

Our library is functioning in temporary campus. It is likely to shift in permanent campus. Now we have limited space with limited infrastructure facility. We have extended additional room for reference cum reading section.

4.3 IT Infrastructure

4.3.1 Does the university have a comprehensive IT policy with regard to

- IT Service Management – University Management System and currently it is in User Acceptance Testing phase.
- Information Security – Authentication Based Internet Access
- Network Security – Firewall installed for preventing unauthorised access from internet.
- Risk Management – SAN for taking the backup of voluminous data in future and 3 No. of 15KVA UPS for uninterrupted power supply to data centre
- Software Asset Management – University Management System in User Acceptance testing phase.
- Open Source Resources – Red Hat Linux, Cent OS, Ubuntu, DSpace
- Green Computing – University Management System that includes SIMS, EFADMS, E-Notice, Library Digitization

4.3.2 Give details of the university's computing facilities i.e., hardware and software.

- Number of systems with individual configurations – 191 (including laptop and desktop) configuration attached, and additionally 35 computers with i5 processor were procured for Centre for computer science engineering at City Centre office.
- Computer-student ratio – 250 (approx.)/2000 (approx.)
- Dedicated computing facilities – General Computer Lab, Language Lab, Mass communication lab, GIS lab, Computer Science Lab
- LAN facility - Yes
- Proprietary software – Liberty for Library Digitization, Windows Server 2008, Postgre data base
- Number of nodes/ computers with internet facility – 250 approx. nodes / 150 computers with internet facility
- Any other (please specify) – Wi-Fi internet facility available across hostels, departments and quarters.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- To implement the University Management System in full swing to automate the complete university work. This includes Students Information Management System, Electronic File Approval Document Management System, Electronic Notice Board, Library Digitization, smart card for biometric etc.
- Fully Wi-Fi enabled campus
- CCTV facility
- IP based video conferencing
- In-house Smart card printing

4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching and research.

- IIT Mumbai Spoken Tutorial Programme
- Webinar through online mode
- Nptel videos through online mode
- Virtual lab videos through online mode
- Wi-Fi facility for students and LAN internet facility for faculty members

4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

Smart Class room and teaching through internet.

4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

Individual laptop provided for regular faculty with internet accessibility. Every department has a common desktop, printer, scanner, VOIP with internet faculty for effective teaching and quality research.

4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

More than 10 smart class rooms are available in the university. Laptops and desktops with projector are used for teaching. E-learning is encouraged.

4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?

Individual laptop provided for regular faculty with internet accessibility. Online journals are available in library.

4.3.9 How are the computers and their accessories maintained?

Technical cell carry out the maintenance work of computers and accessories. Rs 8000/- has been sanctioned as technical contingency amount on revolving basis for purchase of computer peripherals and payment of service if any.

4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes, Internet and video conferencing facility

4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Not available

4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.

4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?

There is no separate annual budget for the update, deployment and maintenance of computers in the university. However, Rs. 8000/- has been

sanctioned as technical contingency amount for procurement of computer peripherals and payment of service if any. Through CUJ website we are moving towards open environment.

4.4 Maintenance of Campus Facilities

4.4.2 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes, university has an estate officer for overseeing the maintenance of buildings, class-rooms and laboratories. All the sections work together under the administrative head of the Registrar deal with the matters related to estate office. An Engineering cell has been established by the university consisting of university Engineer. It works under the OSD (Projects). The cleaning and upkeep of building is outsourced and constantly services are monitored. Specific Initiatives undertaken:

- Committees have been constituted to improve the physical ambience.
- The main avenues of the campus are studded with colorful plants that provide a pleasant ambience.
- Tall evergreen trees stand testimony to the old heritage of the University.
- The campus roads are litter-free and plastic-free.
- The security in the campus has been beefed up
- The University canteens are refurbished

4.4.3 How the infrastructure facilities, services and equipment maintained? Give details.

The Engineering Cell of the University maintains the infrastructure facilities. A dedicated team of Engineer, electricians, plumbers and other personnel provide round the clock service to centers, hostels and quarters. In every center one of the staff members is assigned to oversee the laboratories and equipment, vehicles if any etc. S(he) is responsible for safe and smooth maintenance of the equipment, and facilities. Log book is maintained to ensure entries and problems if any. The Heads of the centers supervise all the facilities. The infrastructural facilities on the campus are overseen by estate officer. The estate officer periodically visits the campus and prepares programme of maintenance as per the necessity so as to keep the infrastructure in order. The Engineering cell looks after the normal repairs and maintenance and services to keep the systems in reliable, safe, code-compliant operating conditions. The cell is provided with plumbers, electrician and other required human resource who take care of minor maintenance.

CRITERION-V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes, many centres have started mentorship policy to develop all around of the students with career guidance, addressing their local problems and tries to resolve their issues. Centre for Environmental Sciences started Mentorship policy in the Centre for M.Sc. students for which teachers have also been assigned.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

An introductory session is organized for the new entrants at the start of every year where the Vice Chancellor, Deans, senior members of the faculty and chairman of the Anti-ragging Committee addresses the students and informs them about CUJ, its environment and the do's and don'ts. They are also conveyed as to what is expected of them during their stay at CUJ. A separate session is also organized for the senior students and they are informed about their duties and responsibilities as seniors towards their juniors.

A separate induction session is also organized for the new entrants every year by every Centre wherein the new students are informed about the rules and regulations, pattern of examination, continuous internal assessment, and other activities pursued by the Centre. In this session, the faculty members try to assess the students' needs and skills and it provides as important data subsequently while teaching. The students are also made aware of the scope of the course and placement opportunities after the completion of the course. As most of the students admitted hail from rural areas and have completed their plus two education and often in the regional language (Hindi Medium), the Faculty members take special care to assess their level of understanding of English (the medium of instruction) and impart support to such students. As part of this initiative, they are also put through the English Language Lab and a course on Communicative English, that enables them to enhance their understanding of English. The students are also acquainted about the academic and non-academic programmes (like sports, music etc. in University).

5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Spoken English Course

Central University of Jharkhand selected as one of the Resource Centre (Rouse Extension for Spoken Tutorial project on Open Source Software Usage for Recruitment, Community and Education) for Spoken Tutorial project, IIT Bombay funded by MHRD, Govt of India. The Spoken Tutorial Project is about teaching and learning a particular FOSS (Free and Open Source Software) like Linux, Scilab, LaTeX, PHP & MySQL, Java, C/C++, LibreOffice etc. via an easy Video tool - Spoken Tutorials.

NPTEL provides E-learning through online Web and Video courses in Engineering, Science and humanities streams. The mission of NPTEL is to enhance the quality of Engineering education in the country by providing **free online courseware**

5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes

5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes

At the commencement of the academic year, every Centre of the University prepares the teaching schedule. The subjects in the Time Table are slotted on a weekly basis evenly distributing the teaching hours among the staff apart from the allotted library supervision, research guidance, ward counseling hours etc. As per UGC norms every teacher is assigned 16 hours of work per week. This includes practical sessions for science faculty. If the departments have inadequacy in staff strength, the excess work is distributed to the existing staff. The remaining hours are allotted for preparation, correction and administrative work. The academic year in the college is comprised of two semesters: the Odd Semester from June to December and the Even Semester from January to May. The number of actual working days is as per calendar in an academic year, at 5 hours per day comprising a minimum of 90 days per semester.

The College annually publishes an Academic Calendar containing the relevant information regarding the teaching learning schedule, holidays and tentative dates of internal examinations etc.

The courses generally follow the lecture method. In addition to the traditional methods of teaching, the teachers offer demonstration lectures using charts, models, audio visual aids like OHP, Power Point Presentation, slide projectors, TV, VCR, computer etc. Certain courses like Indigenous Culture Studies, Journalism & Mass Communication, Business Administration and International Relations include field trips and field works to enable the students to gain knowledge from the field in their subjects.

Student-centric learning and a list of the participatory learning activities have been adopted by CUJ, which contributes to self-management of knowledge development and skill formation. Learning is made student centric by the teacher who enlighten them about the prescribed syllabus and give them wider perspective about the subjects through a series of lectures. This is followed by student centric activities like -

- Preparation of assignments
- Seminar on projects
- Report writing
- Group discussion
- Educational Field Trips
- Screening of films
- Displaying models and charts
- Books and journals, recommended in the syllabi for further reading

Apart from the above methodologies, guest lectures are organized at the Centre level regularly by inviting domain Experts and students are motivated and encouraged to interact with the Subject Experts to gain rich knowledge and clarify their doubts on their subjects.

CUJ has been making sustained and continuous effort to improve the teaching learning methodology by using Participatory Learner Centered pedagogy like Project Work, Field trips, seminars, Quizzes, contribution in College Magazine, Assignments, Computer and Web based learning etc. The students can also avail computer training and training on soft skills under Skill Based Elective Programmes.

In addition, every Centre academic programmes like debate, various cultural events and competitions, lectures, seminars etc and invites experts and people of eminence to provide lectures to the students.

5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./Diploma/others (please specify).

University is providing freeship to the economically weak students, where tuition fee as well as hostel charges are being waived off.

5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?

Eligible students are also getting scholarship announced by their domicile state.

5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?

Yes, University has the International Cell, which is meant for any type of work related to International relation. This cell also facilitates the rules and regulations related to International matters.

5.1.9 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?

Yes, University is providing all the supportive required documents to the students for the submission to the Banks as required.

5.1.10 What types of support services are available for

- overseas students
- physically challenged / differently-abled students
- SC/ST, OBC and economically weaker sections
- students participating in various competitions/conferences in India and abroad
- health centre, health insurance etc.
- skill development (spoken English, computer literacy, etc.)
- performance enhancement for slow learners
- exposure of students to other institutions of higher learning/ corporates/business houses, etc.
- publication of student magazines

5.1.11 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

Some of the Centre of the University have started mentorship policy wherein, students are being guided by assigned faculty who is responsible for their overall development related to their academic curriculum as well as personality development including guidance in different competitive examinations, etc.

5.1.12 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

- **additional academic support and academic flexibility in examinations**
- **special dietary requirements, sports uniform and materials**
- **any other (please specify)**

Sports Wing has been conducting various sports activities since inception of Central University of Jharkhand in 2009. National as well as International level coaches have been associated for training of students in order to motivate them to participate in Zonal, State, National and International Level Tournaments. The following sports activities have been running in morning and evening sessions:

- | | | |
|---------------|-----------------|---------|
| 1. Cricket | 5. Wushu | 8. Yoga |
| 2. Football | 6. Table Tennis | |
| 3. Volleyball | 7. Basketball | |
| 4. Badminton | | |

75% attendance is compulsory in sports for first to fourth semester students.

Sports events		Sports facilities
Outdoor	Indoor	
❖ Football	❖ Table tennis	❖ Multi-Purpose Activity Ground-1 ❖ Football Ground (50m x 20m)-1 ❖ Cricket Concrete Pitch (7.5ft x 30ft)-2 ❖ Badminton Court Full Size-3 ❖ Volleyball Court Full Size-3 ❖ Indoor Sports Complex-1 ❖ Boys Multi Gym-1 ❖ Girls Multi Gym-1 ❖ Officers Multi Gym-1 ❖ Basketball Court Full Size-1 ❖ Lawn Tennis Court Full Size-1
❖ Cricket	❖ Carrom	
❖ Wushu	❖ Chess	
❖ Badminton	❖ Yoga	
❖ Volleyball		
❖ Athletics		

5.1.13 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare them for interview, and develop entrepreneurship skills?

Yes,

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

Nil

5.1.13 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

No

5.1.14 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

Yes.

5.1.15 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing cell and mechanism to deal with issues related to sexual harassment? Give details.

Women Cell has been established.

5.1.16 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

Yes. But none of the complaint has been registered to the Cell during last four years.

5.1.17 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

5.1.20 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

- | | |
|---|--|
| 1. Inter House Level
Championship | 5. National Level
Championship |
| 2. Inter District Level
Championship | 6. International Level
Championship |
| 3. Zonal Level Championship | 7. National Trekking |
| 4. State Level Championship | 8. Annual Sports Day |

5.2 Student Progression

5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

Student Progression	%
UG to PG*	
PG to M.Phil.*	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed Campus selection Other than campus recruitment	

5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?

5.2.3 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

In a major feat, eight students of Central University of Jharkhand (CUJ) have earned fellowship in Graduate Aptitude Test in Engineering (GATE)-2014.

Of this, six students including Nitish Kumar, Avinash Kumar, Dibyashree Koushik, Krishna Kumar, Harshit Oraon and Rishu Kumar are from Centre for Nano Technology and two students, Vivek Vaibhav and Purna Prasad from Centre for Water Engineering.

All the eight semester students will receive fellowship of at least Rs 8000 per month until they complete their M Tech courses.

5.2.4 Provide category-wise details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years. Nil.

5.3 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

There is a separate Sports Wing which looks after the compulsory curriculum of Sports at CUJ. There are outdoor and indoor stadium, and Gyms.

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Regional / National / International, etc. during the last four years.

- Shalini Sudhir, IMBA- witnessed the Republic Day Parade, 2013 from the Prime Minister's Box at Rajpath, New Delhi.
- Team of IMBA students (Semester VI) won the IVth prize in the All India Business Plan Competition organized by BHU in 2012.
- Team of students from Centre for Business Administration, 1st prize - Case Study Competition, "National Seminar on Transformational Leadership" 5-7 April 2013, Sri Ram College of Commerce, New Delhi.
- Documentary Film 'Aji Kar Radio' by students of CMC: 1st prize in video competition organized by UNESCO.
- Documentary Film 'Angutha Chhap Masterji' by students of CMC: 2nd prize in video competition organised by UNESCO.
- Documentary Film 'Life behind the bricks' by students of CMC won the awards/ prizes in:
 - Don Bosko International film festival, Kerala.
 - Special Festival Mention Award, Delhi International Short Film Festival, New Delhi.
 - 3rd prize, Cynosure film festival, Saint Xavier College, Ranchi.
- Documentary Film 'Appan Machh Makhan' by students of CMC won three coveted prizes for Best Director, Best Story and Best Maithili Documentary Film at 2nd Darbhanga International Film Festival, 2014.
- Om Prakash, CEVS, won Gold Medal in State level Wushu Championship, Ranchi 2014.
- Hemant Kumar Ganju, CEVS, won Bronze Medal in State Level Wrestling competition, Pakur, Jharkhand.

- Three students Ms. Deepti Chatterjee, Ms. Rashmi Kumari, and Ms. Heena Kausar, Centre for Human Rights Conflict Management presented papers entitled “Sex Tourism: A Concern”, “Role of Technology in Human Trafficking: Challenges Ahead”, and “Human Trafficking: Case Study on Jharkhand”, respectively at National Symposia on Human Trafficking: A Violation of Human Rights, A Universal Issue, at Nehru Studies Centre and the Department of Political Science, University of Rajasthan, Jaipur, 22- 23 Dec 2012.
- Internship at People Union for Civil Liberties, Regional Head Office, Jaipur, Rajasthan: Three Students (15Dec 2012- 5Jan 2013), Seven Students (21Dec 2013-11Jan 2014) and Six Students (19May 2014- 21June 2014).
- Ms. Niharika Singh, Centre for Human Rights and Conflict Management was Awarded 3rd prize in essay competition ‘Role of Sardar Vallabhai Patel in Nation Building’, 31 Oct 2014, National Unity Day, CUJ.

5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?

Yes. This a taught program in the Centre for Indigenous Culture Studies. Students projects are conducted in this regards.

5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

Science & Engineering students have formed an elicit club named QUARKE ENSEMBLE under guidance/mentorship of Professors of the University, whose activities belongs to development of technocrats and also awareness of the society towards science & technology.

5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Science & Engineering students have formed an elicit club named QUARKE ENSEMBLE under guidance/mentorship of Professors of the University, whose activities belongs to development of technocrats and also awareness of the society towards science & technology.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

Academic Council, and Library Committee

CRITERION-VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

CUJ, established in the year 2009 by an Act of Parliament of India in 2009, is a young, vibrant and futuristic University. CUJ is a non-affiliated University and its focus is on academic excellence and cutting edge technologies. His Excellency, Shri Pranab Mukherjee, Hon'ble President of India is the Visitor of the University. The curriculum design and development of Central University of Jharkhand (CUJ) is an apt reflection of its vision and objectives.

The University is now having 9 Schools and 22 Centres covering disciplines from Science, Technology, Humanities, Management and Mass Communication. All the Centres impart teaching and research in contemporary, frontier and interdisciplinary areas. Admissions to the CUJ teaching programs are through an all India entrance test. Students from 12 states of India and from Bhutan are admitted. We are receiving foreign scholars and collaborators, at regular intervals, which is enriching our academic and research activities. Our students and faculties added laurels to their achievements making the University proud in all aspects of life.

Each faculty and Centre of study is competing at National and International level for achieving excellence. There is a constant resource mobilization through Extra Mural Research Funding. Faculties of CUJ were awarded Fulbright Scholarship, INSA overseas fellowship, Shastri Indo-Canadian Fellowship etc.. Research grants were received by faculties from DBT, DST, IUAC, UGC, ISRO, MoEF. International research collaborations are initiated either through Govt. of India funding or through grant from Columbia University, New York.

Enrichment of knowledge can be done through discourse and constant interactions. This is done through attending or organizing Seminars/Conferences/Symposia and inviting eminent scholars to the University. Our faculties attended and presented papers in National/International Seminars/ Conferences/Symposia also.

6.1.1 State the vision and the mission of the university.

Vision Statement: Our vision is to create a world class university in every aspect, be it research, teaching, administration or co-curricular activities that shall enable us to produce world class students ready to excel in every chosen field with honour and uprightness.

Objectives & Scope:

- i. Disseminate and advance knowledge by providing instructional and research facilities in various disciplines
- ii. Make special provisions for Integrated Courses in Humanities, Social Sciences and Science & Technology
- iii. Promote innovations in teaching-learning process and inter-disciplinary studies and research
- iv. Educate and train manpower for the development of the country
- v. Establish linkages with industries for the promotion of science and technology and
- vi. Pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.

The Motto: Knowledge to Wisdom

Students join higher education courses to gain knowledge. At CUJ, we strive hard to transform that knowledge to wisdom so that society finally gains a useful citizen to guide and mould its destiny. This we plan to do through many compulsory community-based projects, interactions with a wide cross-section of people from within our country and outside and innovations in the teaching learning processes.

A curriculum is designed to involve lectures / tutorials / laboratory work / seminar/ project work / practical training / report writing / Viva voce, etc or a combination of these to meet effectively the teaching and learning needs and the credits may be assigned suitably.

The Centres also take care to offer inter-disciplinary courses or teaching in any discipline not specifically assigned to any Department or which may be necessary as a common service facility to a number of Departments or teaching-cum-research in such disciplines. Field studies in relation to any facet of social and cultural life of the people including activities involving providing facilities for training in relation thereto, are also undertaken. Environmental Studies & Disaster management is mandatory for all the students of Semester II and Semester IV respectively.

CUJ also invites experts from various fields as faculty and organizes seminars/ conferences on different subjects. These academic pursuits contribute to disseminate knowledge amongst students, faculty and external participants to a great extent.

6.1.2 Does the mission statement define the institution’s distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution’s tradition and value orientations, its vision for the future, etc.?

The vision statement upholds the requirements of the stakeholders, with students at the centre of all its activities. Students are our valuable assets, faculties - the pillars and the administrative staff - the backbone. With all these components working in tandem, the Central University of Jharkhand (CUJ) is poised to achieve its vision and mission through the goodwill and support of its patrons and stakeholders. The University has, located in rural and tribal areas, is also focused at helping the people to the maximum extent. The University envisages on teaching, research programmes with the aim of ensuring overall development of the students. Curriculums of the courses are contemporary, updated and restructured to the changing requirements of the society to impart quality education to the students.

6.1.3 How is the leadership involved

- **in ensuring the organization’s management system development, implementation and continuous improvement?**

The Executive Council of the University is the apex executive and governing body, which takes policy decisions. the Academic Council is the authority to decide on academic matters of the University. Faculty, Board of Studies, Statutory Finance Committee and Building Committee are also in place to help the University in its various academic, administrative and financial matters. The Planning and Development Board of CUJ guides in the universities endeavours for future growth and development. The governance of the University is of administrative and academic categories. In administration, there is a hierarchy of staff with the Registrar as the head. In the academic decision making, the Vice Chancellor is in the apex position and the Vice Chancellor interacts with the Deans and Heads of Centres. The Deans, Boards of Studies, and Department Councils are the backbones for innovative methods of teaching, restructuring and introducing new courses in the emerging areas of knowledge.

- **in interacting with its stakeholders?**

Leadership of the university at various levels is very pro-active for interaction with all the stakeholders. Students, being the main stakeholders are able to interact directly with the faculty and the respective Heads of Department. All Faculty members have direct access to the Heads of Department, Dean, and Vice Chancellor. Similarly, all office assistants have direct access to their Section Officers, who in turn interact with the Assistant Registrars, Deputy Registrars, and the Registrar. All other stakeholders such as parents, members of the public have direct access to the teaching departments, Registrar and the Vice Chancellor.

- **in reinforcing a culture of excellence?**

The excellence of functioning of the University is based on its teaching and research. The initiatives of the leadership in academic and administrative issues are strong motivating factor in the inculcation and promotion of a culture of excellence. In the case of all academic courses, students are encouraged to present their findings in National Seminars/Conferences and publish the research findings in reputed journals. Faculty members are required to submit Annual Performance Index as per the UGC Guidelines. The career advancements of the faculty members are based on their performance in teaching, research and publications, which is evaluated by external experts.

- **in identifying organizational needs and striving to fulfil them?**

The organizational needs, in terms of physical infrastructure and academic requirements identified by the Centres, are discussed in the University statutory bodies particularly with regard to making budgetary provisions for implementation. The purchase, up-gradation and replacement of equipment for the teaching departments are met by the budget allocation of the University. For research activities, faculty members are encouraged to submit proposals to various external funding agencies. Special infrastructural needs of the departments are met by various grants received in the form of plan fund from the different agencies like Government of India, UGC, DST and ICSSR.

6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.

The top leadership positions have been vacant for more than a year is – Registrar and Finance Controller. It is due to ‘None Found Suitable (NFS)’ during last interview.

6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes. The University has given priority to fill-up vacancies in the statutory bodies as and when it occurs. Meetings of various statutory bodies are held regularly to transact all official business.

6.1.6 Does the university promote a culture of participative management? If yes, indicate the levels of participative management.

The decision making in the University is done in a democratic pattern by involving the faculty members in various academic bodies, statutory and non-statutory administrative bodies as per the University Ordinance. In the University teaching departments, academic matters are discussed and resolved in the centre level periodically, which examines and recommends suggestion for improvement of academics and infrastructure. The Board of Studies incorporate suggestions on academic matters including the syllabus revision. The decisions of the Faculty meeting and Board of Studies are discussed and

approved by the Academic Council for implementation. The Executive Council is the apex decision making body of the University. In its sessions, the members discuss the vital policy matters and take decisions. The executive body of the University will implement the decisions.

6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.

CUJ is a non-affiliating university, hence not applicable.

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

CUJ is a non-affiliating university, hence not applicable.

6.1.9 How does the university groom leadership at various levels? Give details.

The Ordinance of CUJ has a clearly laid-down mechanism of grooming leadership at different levels. As per ordinance, periodically, professors and associate professors are nominated to be the Heads of Centre, Deans and assume other senior positions in the university.

6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.

The university evolved a knowledge management strategy. The knowledge management strategy at CUJ is well placed and is guiding the university to pursue its vision. Knowledge management as a strategic endeavour is apparent in the MOUs signed by CUJ with different universities across the world like Yunnan University, China, University of California, San Bernardino, USA, Yuengnam University, South Korea etc.

Visits of overseas researchers/ visiting scientists, undertaking important research projects in collaboration with national and international bodies, Seminars/ Conferences/ Festivals etc. are part of CUJ's strategy for effective knowledge management for academic excellence.

6.1.11 How are the following values reflected the functioning of the university?

- **Contributing to national development**

CUJ is unique in the sense that it is a non-affiliating university dedicated to provide study and research facilities and to promote advanced knowledge in social sciences, management, science and technology and other relevant disciplines. Since various campuses are situated in rural and tribal area, it is upholding the needs of the rural people.

- **Fostering global competencies among students**

The regular revision of curricula to meet the national and global needs have been taken into consideration to make the students competitive in the global level. Many students and faculty members have received foreign fellowships to do advanced courses including Post Doctoral Research in various disciplines. The student exchange between CUJ and Yuengnam University, South Korea, is one of the global outcomes of the University.

- **Inculcating a sound value system among students**

The University conducts awareness programmes to inculcate moral and ethical values among students. There is a separate course on Business Ethics in the syllabus of Integrated MBA programme. Lectures, film festivals, seminars, workshops and cultural programmes are organized to inspire students. The University also encourages the students to hold youth festivals, literary and athletic activities that reinforce the value orientation of students.

- **Promoting use of technology**

The University has introduced technological advancements like the use of computers, internet and LCD projectors for class rooms and in seminar halls. The classrooms have state of the art audio-visual aids. The students can now apply for examinations online and the results can be viewed / downloaded from the University Website.

- **Quest for excellence**

The quest for excellence at CUJ is reflected in the academic excellence of its faculty members. Some of the recognitions received by Faculty members are as follows:

- Fulbright scholarship to attend Academic Administrators Seminar in USA. Oct-Nov 2013.
- member(s) of EU delegation to India at Ranchi
- Invitation to visit Czech Academy of Sciences, Institute of Microbiology, Trebon
- INSA-CAS overseas visiting (exchange) fellow 2013-14
- Invitation to attend Indo-Canada Faculty Mobility Program 2013.
- Certificate of Appreciation from SERVIR Capstone Fellowship Program supported by AAG, NASA, USAID and ESRI at Washington DC and Tampa, FL, USA.
- Empanelment as Individual National Level Expert (NEL) for the Ministry of Drinking Water and Sanitation, Govt. of India, 2013.
- Invited as expert to train senior scientists of DRDO, Ministry of Defence, Indian Armed Forces, Steel and coal industries and other

renowned corporate houses of the country.

- Invited to render faculty help by prestigious academic institutions like IIM Calcutta, BHU and Assam University.
- Nominated as reviewers to several renowned academic journals of the world.

6.2 Strategy Development and Deployment

CUJ has clearly laid down development plans that are guided by the Executive Council which is the apex decision-making body of the University. The EC, besides other sources, are given inputs by the planning and development Board, Academic Council, Finance Committee, Building Committee and Dean's Committee to plan the future and implement it to achieve its vision.

6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

- **Vision and mission**

The University has a perspective plan for development, which is based on the vision. This is primarily done by the Planning and Development Board of the university responsible for formulating plans for the development.

- **Teaching and learning**

The quality of teaching and learning process is ensured by the academic processes being followed at CUJ. Student-centered learning, Continuous internal Assessment, End Semester Assessment, and a grievance redressal cell are playing vital role in teaching and learning mechanism. The financial and infrastructural affairs of the university are well taken care of in formulating the plans for development.

- **Research and development**

Academic, socially and industrially relevant research is undertaken by the Centres of the University, besides the M. Phil. and Ph. D. programmes.

- **Community engagement**

The Departments of the University conduct studies and surveys to understand different problems of the people of the locality which in turn help the people and also the disciplines in developing curriculum. As part of community engagement, CUJ has initiated a 'Unnayan' wherein over 250 small children of nearby villages are taught by students and faculty members on a regular basis.

- **Human resource planning and development**

The human resource planning and development is ensured through

different long-term and short-term training programmes for non-teaching staff. Teachers of University Centres are encouraged to attend workshops, seminars, and training programmes including UGC-ASC Orientation Programmes and Refresher Courses.

- **Industry interaction**

Conferences, Seminars, and workshops are conducted in collaboration with industries. Industry experts are invited to give special lectures and keynote addresses in conferences and workshops. The University organizes invites national reputed dignitaries from different industries in India. In addition, students do industry-related projects and are sent to industry every year for internship programme.

- **Internationalisation**

CUJ has signed MOUs with several international Universities like Yunnan University, China, University of California, San Bernardino, USA, Yuengnam University, South Korea for academic collaboration. The faculty members are publishing their research findings in International Journals. They also present the research findings in foreign countries. An admission committee is set up in the University to admit foreign students to university Centres. Research scholars are also doing research in the university.

6.2.2 Describe the university's internal organizational structure and decision making processes and their effectiveness.

The Officers of University administration are the Vice-Chancellor, Deans, Registrar, Finance Officer, Controller of Examination. The University is following the UGC guidelines in the structure of the administrative set up and decision making. In the University Centres, the academic decision making process is in the faculty meetings. The University functions through various bodies such as the Board of Studies, Academic Council, and Finance committee, Planning and Development Board and other committees framed in time to time for various purposes.

6.2.3 Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

The university has a formal policy to ensure quality through various academic and research programmes of the university. The Faculty Committee, Board of Studies, Academic Councils, and other academic committees are ensuring quality in all academic activities of the university. The IQAC has been set-up recently and has started initiatives w.r.t. matters related for the improvement of quality in academic matters.

6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

The curriculum, research, and other programmes are designed by the University with ample freedom and the University encourages the Centres to pursue academic activities and also take up externally funded research projects. The performance of the faculty members and departments are furnished to the university through the annual performance assessment report.

6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

Two Public Interest Litigation (PIL) filed and under trial.

6.2.6 How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

CUJ has a Dean, Students' Welfare who constantly redresses grievance of the students of the University. The Heads, Deans, Registrar and Vice Chancellor also ensure that the grievances and complaints of students are promptly attended to and resolved effectively.

6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes. In the matter of curriculum aspects, the feedback received from the students of the Centres of the University are forwarded to the HoD, Dean, BOS, and Academic Council for consideration. The given suggestions are examined and consider the matter for improvement of institutional performance.

6.2.8 Does the university conduct performance audit of the various departments?

The performance of Centres are reviewed and monitored by the Deans and Vice Chancellor periodically and necessary corrective and preventive actions are taken. The University collects information from the departments and publishes Annual Report every year. It provides a comprehensive picture of the departments and its functioning.

6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?

Not applicable

6.2.10 Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

Not applicable

6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?

Teachers are encouraged to attend Workshops, Orientation Programmes, and Refresher Courses to maintain professional standards. The non-teaching staff members of the University were given short-term training on Organisational Behaviour, Communicative skills, Managerial skills and Computer Literacy to improve the professional standards.

6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.

The University has the mechanism to review the quality of periodical review by the HoDs, Deans, API and Self Appraisal Reports.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

The University introduced the followings: Medical facility including clinic at the campus, Personal, blood donation camps, hired bus service for employees and festival cash advances and other facilities as per Govt. of India rules.

6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?

The University promotes its senior and eminent faculty members to apply for Emeritus Professorship of the UGC and other positions of eminence. The University also appoints Visiting Professors and retired eminent professors to contribute to academic excellence through applicable GOI norms.

6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.

Although gender audit is not being conducted, the University collects the details annually about the students and staff members

6.3.6 Does the university conduct any gender sensitization programmes for its faculty?

Various awareness programmes are conducted related to gender issues by the staff members

6.3.7 What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the university faculty?

CUJ does not have an Academic Staff College at present.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism available to monitor the

effective and efficient use of financial resources?

Suitable institutional mechanisms are in place to monitor the effective and efficient use of financial resources. The annual budget of the university is prepared annually basis and are duly placed before the Finance Committee and the Executive Council for necessary approval/ratification. Generally, the recurring expenses and the capital expenditures are projected to be within the budgeted resources of the University thereby deficit budgeting is not encouraged. Apart from the above there is a regular check by the audit of the University for Various Transactions in additions to the annual statutory audit. Therefore, the University has a mechanism for internal and external audit.

6.4.2 Does the university have a mechanism for internal and external audit? Give details.

Please refer 6.4.1

6.4.3 Are the institution's accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?

The institutional accounts are audited regularly by both internal and statutory audit. So far there have been no major findings/objections. Minor errors/omissions and commissions when pointed out by the audit team are immediately corrected/rectified and precautionary steps are taken to avoid recurrence of such errors in future.

6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.

The audited income and expenditure statements of the University of the Last Four years (for example 2010-11 to 2013-14) are furnished herewith.

Annexure-I

6.4.5 Narrate the efforts taken by the University for Resource Mobilization.

Please refer Sl. No.6.4

6.4.6 Is there any provision for the university to create a corpus fund? If yes, give details.

Yes

6.5 Internal Quality Assurance System

6.5.1 Does the university conduct an academic audit of its departments? If yes, give details.

The formal academic audit of its Centres has not yet started at CUJ, though quality of academics is monitored and controlled by the HoDs and Deans of the Centres/ Schools of the University.

6.5.2 Based on the recommendations of the academic audit, what

specific measures have been taken by the university to improve teaching, learning and evaluation?

Based on the recommendations of academic bodies, the University has taken measures to provide infrastructure, academic and financial support to the departments

6.5.3 Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The Centre Faculty group headed by the HoD reviews the teaching learning process continuously. The same is overseen by the Academic Council. The Academic Council is the authority for granting approval to the syllabus of any course conducted by a Centre. The syllabus recommended by the Board of Studies (BOS) in each discipline is presented in the Academic Council. After observing reviews in detail, the Academic Council approves or might suggest suitable recommendations to the Boards of Studies concerned.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC has been newly constituted and at present and is preparing a quality plan to institutionalizing quality assurance strategies and processes.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

Not applicable at present.

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Not yet but shall have very soon.

6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

Not yet.

6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

The following policies are made for the improvement of the administrative and academic branches:

- The study of API.
- The periodical meetings of faculty with Vice-Chancellor.
- Department level faculty meetings.
- Review meetings of the administrative branch.
- Meetings of the Executive Council, Academic Council,

- The Planning & Development Board, Finance Committee, Boards of Studies and Departmental Council.

Reports and reviews of the above committees are discussed in the Executive Council for implementation.

Annexure-1

Income and Expenditure Statement

CENTRAL UNIVERSITY OF JHARKHAND
 (A Central University established by an Act of Parliament of India in 2009)
 CAMPUS - BRAMBE, DIST - RANCHI-835205
 JHARKHAND.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2012.

PARTICULARS	SCHEDULE	(Amount in Rs.)	
		2011-12	2010-11
I. INCOME			
- Grants/Subsidies	6	490,000,000.00	400,000,000.00
- Academic Receipts	7	20,372,380.00	9,573,097.00
- Fees/Subscriptions	8	992,114.00	681,230.00
- Interest Income	9	8,221,866.00	2,748,628.00
- Other Income/Receipts	10	2,006,299.00	946,195.00
TOTAL		521,992,659.00	413,969,890.00
II. EXPENDITURE			
- Establishment Expenses	11	54,894,585.00	24,371,280.00
- Academic Expenses	12	6,232,300.00	4,643,901.00
- Administrative Expenses	13	42,080,976.00	30,944,972.00
- Repairs and Maintenance	14	3,965,833.00	3,752,682.00
- Expenditure on Grants, Subsidies, etc.			
- Depreciations	3	20,228,172.00	10,117,731.00
TOTAL		126,599,566.00	73,830,566.00
III. Balance Being Excess of Income Over Expenditure (I-II)			
- Transfer to Special Reserve		394,993,093.00	340,039,324.00
- Transfer to/from General Reserve			
IV. Balance Being Surplus/(Deficit) Carried to Corpus/Capital Fund			
		394,993,093.00	340,039,324.00
Significant Accounting Policies & Notes to Accounts	15		

FOR CENTRAL UNIVERSITY OF JHARKHAND

Place: Brambe, Ranchi
Date: 28th April, 2012

RAJ KUMAR AGARWAL
Finance Officer

PROF. D.T. BHATTING
Vice Chancellor

CENTRAL UNIVERSITY OF JHARKHAND
 (A Central University established by an Act of Parliament of India in 2009)
 CAMPUS - BRAMBE, DIST - RANCHI-835205
 JHARKHAND.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2014.

PARTICULARS	SCHEDULE	(Amount in Rs.)	
		2013-14	2012-13
I. INCOME			
- Grants/Subsidies	7	79,25,00,000.00	58,75,00,000.00
- Academic Receipts	8	4,69,19,101.00	3,34,02,919.00
- Fees/Subscriptions	9	1,37,300.00	3,75,260.00
- Interest Income	10	1,48,05,981.00	1,50,26,755.00
- Other Income/Receipts	11	31,49,263.00	34,57,148.00
TOTAL		85,75,11,645.00	66,97,62,882.00
II. EXPENDITURE			
- Establishment Expenses	12	13,50,85,591.00	9,27,46,172.00
- Academic Expenses	13	63,11,901.00	95,62,766.00
- Administrative Expenses	14	7,00,92,567.00	6,72,07,858.00
- Repairs and Maintenance	15	29,38,326.00	98,23,376.00
- Expenditure on Grants, Subsidies, etc.			
- Depreciation	4	2,92,42,509.00	2,49,07,997.00
TOTAL		24,36,71,884.00	20,44,28,163.00
III. Balance Being Excess of Income Over Expenditure (I-II)			
- Transfer to Special Reserve		61,38,39,761.00	35,53,33,919.00
- Transfer to/from General Reserve			
IV. Balance Being Surplus/(Deficit) Carried to Corpus/Capital Fund			
		61,38,39,761.00	35,53,33,919.00
Significant Accounting Policies & Notes to Accounts	16		

FOR CENTRAL UNIVERSITY OF JHARKHAND

Place: Brambe, Ranchi
Date: 16th June, 2014

DR. L. K. NAYAK
Finance Officer (i/c)

PROF. A. N. MISHRA
Vice Chancellor (Acting)

CRITERIA-VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the university conduct a Green Audit of its campus?

The university is currently located at Brambe, a 25 Kms drive from Ranchi City. It is a beautiful and vibrant campus, with its classrooms and hostels blending well with the environment. The classroom complex is located inside a mango orchard and the hostels are surrounded by tall Sal trees. The campus records more than 1000 trees at present, some of which are 100 years old. Campus cleaning is taken up earnestly by all the staff and students.

However, no formal Green Audit of the campus has taken up so far. The present campus is the make-shift campus and the permanent campus which is located at Sukkurhutu-Cheri-Manatu of Kanke Block of Ranchi covering an area of 319.28 acres.

7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?

- ❖ **Energy conservation:** Optimum use of electricity is ensured through spreading awareness among the students and the employees.
- ❖ **Use of renewable energy:** Already the process has been started by the Centre for Energy Engineering in the permanent campus of the university to use solar energy power to reduce power consumption and use alternative sources of generating power which would help in overcoming the power crisis.
- ❖ **Water harvesting:** No
- ❖ **Check dam construction:** No
- ❖ **Efforts for Carbon neutrality:** No
- ❖ **Plantation:** The University is involved in plantation works because of which Green prevails everywhere in the campus.
- ❖ **Hazardous waste management:** The hazardous waste in the form of used chemicals from chemistry and other laboratories is diluted many times in water and disposed carefully. We have the policy of minimal use of hazardous chemicals in these laboratories.
- ❖ **e-waste management:** All e-waste (old computers, printers, electronics components) are stored in separate room. We do not have any facility for disposal of e-waste in University. The University arranges to sell this e-waste to proper buyers of e-waste.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the university.

The university has introduced the CBCS system from the very beginning in the curriculum of all Five Year Integrated programmes. This has helped the students to gain knowledge on any subject of their choice which allows for academic flexibility. This system has also helped the faculty members to introduce innovative and interdisciplinary courses as per their specialization. This motivates the faculty members to acquire advance knowledge on these courses.

The university has introduces paperless file movement system through EFDMS and it is under the process of improvement and finalization. This will ensure fair and transparent university governance.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the university.

The University has been adhering to best practices such as rule of law, merit, discipline, and professional ethics, excellence in teaching and research, selflessness, integrity, objectivity, openness, honesty etc. which are part of the long tradition and culture in India.

EVALUATIVE REPORTS OF CENTRES

CENTRE FOR MASS COMMUNICATION

1. Name of the Centre: Centre for Mass Communication

2. Year of establishment: 2009

3. Is the Centre part of a School/Faculty of the University? Yes, School of Mass Communication & Media Technologies.

4. Names of Programmes/Courses offered (UG, PG, M. Phil, PhD, Integrated Masters, Integrated PhD, etc.): Ph.D.; Five-year Integrated (UG/PG) Master of Arts in Mass Communication

5. Interdisciplinary Programmes/Courses and Departments involved:

- In fifth semester of five-year integrated course Centre offers the students to opt various elective papers from other Centres. In the same manner Centre for Mass Communication also offers various elective papers to the students of other Centres.
- As part of Students' Exchange Programme with Yeungnum University, South Korea, two students of Centre for Mass Communication have successfully completed one semester in South Korea. Whereas one student is still studying in Yeungnum University.

In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Communicative English	Undergraduate	English Languages	Faculty prescribed by the respective Centre
Communicative Applications & Basic Multimedia Skills	Undergraduate	Mass Communication	Rajesh Kumar/ professionals from industry
Environment Science	Undergraduate	Environment Science	Faculty prescribed by the respective Centre
Disaster Management	Undergraduate	Land Resource Management	Faculty prescribed by the respective Centre
Science and Technology Communication	Undergraduate	Mass Communication	Sudarshan Yadav

Indian Society Polity & Economy	Postgraduate	Mass Communication	Rajesh Kumar/ Faculty from other Centres
Graphics Techniques	Postgraduate	Mass Communication	Paramveer Singh
Social & Political Thoughts	Postgraduate	Mass Communication	Rajesh Kumar/ Faculty from other Centres
Photo Journalism and Other Media	Undergraduate	Mass Communication	Faculty prescribed by the Centre
Radio News Broadcast	Undergraduate	Mass Communication	Faculty prescribed by the Centre
Models of Communication	Undergraduate	Mass Communication	Faculty prescribed by the Centre

6. Courses in collaboration with other universities, industries, foreign institutions, etc. No

7. Details of Programmes discontinued, if any, with reasons. No

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

Semester System and Choice Based Credit System

9. Participation of the Centre in the courses offered by other Centres. No.

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Assistant Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	2	1	2
Assistant Professor	4	4	4

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

Name	Designation	Educational Qualifications	Specialization	Experience in years	No. of Ph.D. students Enrolled/ Guided in last 4 years

Prof. S.K. Tewari	Professor	M.Sc., LL.M., Ph.D. (Cardiff University, UK)	Media Laws and Ethics	(21 years approx. - Teaching/ Research) (18 years approx - Industry)	2
Dr. Dev Vrat Singh	Associate Professor	Ph.D., M.M.C., PG Diploma in Radio & Television Journalism (IIMC), BJMC, L.L.B.	New Media, Television Production, Broadcast News and Media Research	Teaching (14) Industrial (03)	2
Mr. Rajesh Kumar	Assistant Professor	Ph.D. (Pursuing), M.Phil, M.M.C. P.G. Diploma in Journalism (IIMC), NET	Editing, Reporting, Page Making, Communication Theories & Models, Media Education	Teaching (04) Industrial (04)	NIL
Ms. Rashmi Verma	Assistant Professor	Ph.D. (Pursuing), M. Phil, M.J., PG Diploma in Translation, NET	Media Research, Development Communication and Public Relation	Teaching (04) Industrial (02)	NIL
Mr. Sudarshan Yadav	Assistant Professor	Ph.D. (Pursuing), M.A.M.C., B.Sc., Certificate in Disaster Management (IGNOU), NET-JRF	Media Management, Science and Technology Communication, Film Studies, and Communication Theories & Research	Teaching (03) Industrial (06 months)	NIL
Dr. Paramveer Singh	Assistant Professor	Ph.D., M. Phil, M.A., NET	Television Production, Documentary Production, Graphics Design, Radio Production	Teaching (07) Industrial (1.5)	NIL
Ms. Rupa Kumari	Assistant Professor (on Contract)	Ph.D. (Pursuing), M. Sc. (Advt. & P.R.)	Advertising, Public Relations and Corporate Communication	Teaching (01) Industrial (2)	NIL

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

Name	Designation	University/Institution/Organisation
Dr. Richard Jahna	Fulbright Fellow	Dept. of Communication, Arizona Western College, Arizona, United States

13. Percentage of classes taken by temporary faculty: (Programme-Wise Information)

- Five-year Integrated Master Degree in Mass Communication: 30%
- Ph.D. in Mass Communication - NIL

14. Programme-Wise Student Teacher Ratio:

Number of Students: 111 (107 (MAMC) + 4 (Ph.D.))

Number of teachers: 08 (06 (Regular) + 02 (On Contract))

Student-teacher ratio: 13:1 (UG/PG); Ph.D: 2:1

15. Number of academic support staff (technical) and administrative staff sanctioned, filled and actual:

Level / Position	Sanctioned	Filled
Technical Assistant	2	1
Lab Assistant	2	-
Lab Attendant	1	-
LDC	1	-

16. Research thrust areas as recognized by major funding agencies:

Proposed Research Thrust Areas: Media Laws and Ethics, Broadcast News, Cinema, New Media, Print Media.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: No. of Faculties: 1 (One)

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Prof. S. K. Tewari	Maintaining Harmony through Media	1 Lakh	31 March 2015	2013-2014; Ongoing	IASE Deemed University, Rajasthan

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: One

Name of Teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Prof. S. K.	Evaluation/Feasibility Study of	Less Than	--	The task was assigned to the Central

Tewari	Organisations (NGOs) shortlisted by the Ministry of Human Resource Development for the sanction of New State Resource Centre (SRC) in the state of Jharkhand	1 Lakh		University of Jharkhand by the Ministry of Human Resource Development vide its D.O. No. F.8-19/2011-NLM-3 dated 18 April 2011. Completed
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(b) International Collaboration: NIL

**19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: NIL
(Total Grants Received)**

20. Research facility/Centre with: N/A

(a) State Recognition:

(b) National Recognition:

(c) International Recognition:

21. Special research laboratories sponsored by/created by industry or corporate bodies

NIL

22. List of Publications in Last Five Years:

(A) No. of Research Papers in Peer Reviewed/Indexed National/International Journals:

Detailed Information given below in the end of this proforma

(B) Papers presented in National/International Conferences/Seminars/etc.

Detailed Information given below in the end of this proforma

(C) Books/Monographs/Edited Books

Detailed Information given below in the end of this proforma

(D) Chapter(s) in Books

Detailed Information given below in the end of this proforma

(E) Impact Factor – Range and Average: NIL

(F) Citation Index – Range and Average: NIL

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index: NIL

SJR: NIL

SNIP: NIL

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Prof. Santosh Kumar Tewari	Peer Reviewed/ Refereed: 26; One International.
Dr. Dev Vrat Singh, Associate Professor (Dean & Head)	National Publications (Journal): 09 Books: 04 Edited Volume: NIL
Rajesh Kumar	Chapters in Book: 11
Rashmi Verma	Monograph: None
Sudarshan Yadav	Others: None
Dr. Paramveer Singh	Newspapers/ Magazines: 18
Rupa Kumari	Proceedings: 02 (One International) National Seminars: 03 IGNOU Study Material: 01

23. Details of patents and income generated: NIL

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: NIL

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories/institutions/ industries in India and abroad: NIL.

26. Faculty serving in:

(a) National Committees: NIL

(b) International Committees: NIL

(c) Editorial Boards:

• **Prof. Santosh Tewari**

- Editorial Advisor, Communication Today, A refereed journal published from Jaipur; **Member**, Advisory Board of University Newsletter 'CUJian Age'.

- Prof. Santosh Kumar Tewari participated in the 4th Global meeting of Association of Universities held in New Delhi on 11-12 April, 2011.
- Prof. Santosh Kumar Tewari participated in Indo-Global Education Summit 2011, held in New Delhi on 04-05 November, 2011.
- Under the chairmanship of Prof. Santosh Kumar Tewari, CUJ completed the SRC (State Resource Centre) project in Jharkhand. The project was entrusted to CUJ by Department of School and Literacy, MHRD, Govt. of India.
- **Chief Guest at National conference on “Democratization of Communication”** held on 23 November 2012 at Tecnia Institute of Advanced Studies (affiliated with Indraprasth University, Delhi).
- Participated as an expert in **Doordarshan Programme ‘Manthan’**, Ranchi in May 2012. Theme/Topic – ‘Growth and Scope in Mass Communication.’
- **Member, Organizing Committee of 2nd International Conference on Journalism and Mass Communication** held in Singapore on 28 and 29 October 2012.

- **Dr. Dev Vrat Singh**

- Member, Editorial Board, Media Mimansa, Referred Journal published by Makhnallal Chaturvedi National University of Journalism and Communication, Bhopal; **Content Consultant** of University Newsletter ‘CUJian Age’
- Coordinated **Three-day Photography Exhibition and Competition** on the occasion of World Photography Day during 21st-23rd August 2013.
- Coordinated ‘**Documentary Film Show – Showcasing Tribal Culture**’ during Akhra-2013 on the University Campus.
- Acted as **Content Consultant of CUJian Age**, Volume 8 (January 2014), A Publication of the Central University of Jharkhand On 12 May 2014
- Co-ordinated seven-day workshop of CUJ Mass Communication students on TV production during 19-26 March, 2014 in association with Satya Bharti Institute, Ranchi.
- **Rajesh Kumar and Sudarshan Yadav**, Issue Editors of University Newsletter ‘CUJian Age’
- **Rajesh Kumar** attended as an expert for Doordarshan Programme ‘Manthan’ at DD Kendra, Ranchi in May 2012.
- **Rashmi Verma and Dr. Paramveer Singh**, Members, Editorial Board of University Newsletter ‘CUJian Age’

(d) Any Other Please Specify: NIL

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

- **Orientation Course:** Completed by all four regular Assistant Professors Rajesh Kumar, Rashmi Verma, Sudarshan Yadav and Dr. Paramveer Singh.

- **Refresher Course:** Completed by two Assistant Professors, Rajesh Kumar and Rashmi Verma and other two are in the process.
- **Workshop:** Completed by all four regular Assistant Professors Rajesh Kumar, Rashmi Verma, Sudarshan Yadav and Dr. Paramveer Singh.
- Prof. Santosh Kumar Tewari, Rashmi Verma and Rajesh Kumar (Assistant Professor) attended the Community Radio Workshop along with students held on 8-10 November, 2011 at CUJ. This was organized by Ministry of Information & Broadcasting in collaboration with Ministry of Defence and Ministry of Science and Telecommunication, Govt. of India.
- Prof. Santosh Kumar Tewari, Rajesh Kumar and Rashmi Verma attended a seminar on Society, Govt. and Media along with students held in Ranchi on 18 August, 2011. This was organized by Information & Public Relation Department, Govt. of Jharkhand.
- Prof. Santosh Kumar Tewari, Rajesh Kumar and Rashmi Verma attended a seminar on Society 'RTI : A Potent weapon against Corruption' along with students. This was conducted by FJCCI and RTI Forum Jharkhand from 18th to 19th February, 2012. Professor Tewari chaired a session of the seminar.

Rashmi Verma

- Co-ordinated the '**International Travelling Uranium film festival**' at CUJ on 15th Jan, 2013.
- Led a group of students of Centre for Mass Communication for making '**Ranchi Film Festival- 2012 Suhana Safar**' a grand success in September 2012. This festival was organized by Directorate of Film Festival (DFF), Ministry of Information and Broadcasting, Govt. of India and Information and Public Relations Department (IPRD), Govt. of Jharkhand.
- Attended state workshop on Homeless and Urban Poor, organized by Ekjoot NGO, on 30th April, 2014 at BNR, Ranchi.
- Rashmi Verma participated in the National conference on Innovation & Entrepreneurship in Information & Communication Technology held in Noida on 14-15 May 2011.
- Rashmi Verma attended the workshop on Science Broadcasting held in University of Calcutta from 19th to 23th September 2011. This was organized in collaboration with VigyanPrasar, Department of Science and Technology, Govt. of India.
- Contributed as a convener of 'Fusion Dance'during Tribal India International Film Festival-2012, in November 2012 at CUJ.
- Convener of 'Akhra-2013 Tribal India Festival', organized tribal folk games during three days event in October 2013.

Sudarshan Yadav

- Attended one week long **National Workshop on Writing Research Proposal** organised by the Department of Journalism and Mass Communication, Banaras Hindu University in the month of March 2011.
- Participated in the one week long **‘Training Programme in SPSS’** organised by the Department of Statistics, Banaras Hindu University in collaboration with the DST, New Delhi in the month of June 2011.
- Participated in a one month long **National Workshop on Theatre Communication**, organised by the Department of Journalism and Mass Communication, Banaras Hindu University in the month of September 2011. As a result of this workshop participants presented a drama **‘Malwa Ka Raja’**, based on the life events of Pt. Madan Mohan Malviya.

Paramveer Singh

- Delivered a lecture to Jharkhand Information officer on the topic ‘Digital Television and Cable’ at Shri Krishna Institute of Public Administration, April, 2013
- Led a group of students of Centre for Mass Communication for making **‘Ranchi Film Festival- 2012, Suhana Safar’** a grand success in September 2012. This festival was organized by Directorate of Film Festival (DFF), Ministry of Information and Broadcasting, Govt. of India and Information and Public Relations Department (IPR), Govt. of Jharkhand.
- Led a group of students for Jagran Film Festival and Film Appreciation Workshop in Ranchi organized by Dainik Jagran group. Also attended the one day Film Appreciation Workshop in the same film festival.
- Coordinated **Three-day Photography Exhibition and Competition** on the occasion of World Photography Day during 21st-23rd August 2013
- Coordinated **‘ Documentary Film Show – Showcasing Tribal Culture’** during Akhra-2013 on the University Campus
- Member of Media committee in International Tribal Festival ‘Akhra-2013’

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 100 percent.

Documentary Film Projects; Audio Production Projects; Print Media Projects; Photography Projects; Dissertation (as put in the respective semesters)

(b) Percentage of students doing projects in collaboration with other universities / industry / institute: 100 percent. Industry Projects (Internships at UG and PG level)

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

Awards/ Recognition to Faculty

- **Dr. Dev Vrat Singh: Text Book Writing Fellowship:** Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal. Duration of fellowship was one year
- **Sudarshan Yadav: Library Fellowship** for one month (15 December 2012 to 14 January 2013) from Centre for Contemporary Studies, Indian Institute of Science, Bengaluru. **Junior Research Fellowship** from UGC for a period of one and half years, from 20 October 2010 to March 2012.

Awards to the Students

Centre for Mass Communication has remarkable achievement in Documentary Film Festivals during last three years. The students of this Centre participated in National as well as International Film Festivals and got awards in various categories. The details are given below:

- 1. 'UNESCO-CEMCA COMMUNITY RADIO VIDEO CHALLENGE-2014'**
Short Film: *Aaji Kar Radio*
Award/Prize: **First Prize;** Rs. 20,000/-: Students: Navneet Sitarehind, Juhi Kumari, Madhavi Kumari, Manish Kumar
Second Prize: Rs. 15,000/- Short Film: *Anguthha Chhap Masterji;*
Students: Suraj Kumar, Prince Kumar
- 2. DELHI SHORT INTERNATIONAL FILM FESTIVAL-2013**
Documentary: *The Life-Behind The Bricks;* Award: Special Festival Mention Jury Award; Students: Ashutosh Kumar Gupta, Basant Kumar, Juhi Kumari, Madhavi Kumari, Navneet Sitarehind
- 3. DON BOSCO INTERNATIONAL FILM FESTIVAL KERLA-2013**
Documentary: *The Life-Behind The Bricks;* Award/Prize: Best Documentary Award
Prize Money: Rs. 5000; Students: Ashutosh Kumar Gupta, Basant Kumar, Juhi Kumari, Madhavi Kumari, Navneet Sitarehind
- 4. CYNASURE FILM FESTIVAL RANCHI-2013**
Documentary: *The Life-Behind The Bricks;* Award/Prize: Third Prize
Students: Ashutosh Kumar Gupta, Basant Kumar, Juhi Kumari, Madhavi Kumari, Navneet Sitarehind
- 5. DELHI SHORT INTERNATIONAL FILM FESTIVAL-2012**

Documentary: Khel Uma Khel; Award : Special Mention Jury
Students : Rashmi Kumari-1, Rohit Kishor, Manjush Bhardwaj,
Rashmi Kumari-2

Another Entry : Taskari Certificate of Participation

Students: Heena Kausar, Neha Pandey, Shilpa Choudhary, Swati
Yadav

6. ALL BIHAR VIDEO FILM FESTIVAL (ABHIVYAKTI-2012)

Documentary: Taskari; Award : Best Student Video

Students : Heena Kausar, Neha Pandey, Shilpa Choudhary, Swati
Yadav

Another Entry :Khel Uma Khel; Certificate of Participation

Students :Rashmi Kumari-1, Rohit Kishor, Manjusha Bhardwaj,
Rashmi Kumari-2

7. JHARKHAND CINEKALA AWARD -2011

Documentary : The Dark Side; Award : Best Documentary

Students :Pawan Pandey, Heena Mumtaj, Sanjay Tudu, Chetan Anand,
Manish Kumar

8. JAIPUR INTERNATIONAL FILM FESTIVAL -2013

Documentary :A Place Call Home was nominated in competitive
category.

Students :Akhama H. K. Pamei, Anshul, Hemraj, Mehtab Alam,
Satyajeet.

9. Darbhanga International Film Festival- 2013

Documentary : Aapan Maachh Makhan

Three Awards: Best Story, Best Director, Best Mithila Documentary

Students: Naina Kumari Nayak, Suraj Kumar, Rohit Prakash, Mona
Kumari, Nitish Kumar.

Student's Achievement

- Sugandha, Rohit Prakash & Navneet Sitarehind, students of fourth semester of Centre for Mass Communication got first prize in 'Collage Making' competition in Ranchi Film Festival (SUHANA SAFAR) organised by **Directorate of Film Festivals (DFF), Ministry of Information & Broadcasting and Information and Public Relation Department (IPRD), Govt. of Jharkhand** in September 2012.
- Basant Kumar, a student of fourth semester of Centre for Mass Communication got third prize in 'Street Play' competition in **Alchringa-2013** at IIT Guwahati.
- Abhishek Kumar, a student of fourth semester of Centre for Mass Communication got first prize in 'Photography' competition in Ranchi Film Festival (SUHANA SAFAR) organised by **Directorate of Film Festivals (DFF), Ministry of Information & Broadcasting and Information and Public Relation Department (IPRD), Govt. of Jharkhand** in September 2012.

- Akash Ankur, a student of fourth semester of Centre for Mass Communication got **‘Best Goalkeeper Award’** at National Level in Floor Ball Competition organised by Floor Ball Federation of India). He has also been selected as a Captain of Jharkhand team for upcoming Federation Cup at Lucknow.
- Reena Kumari, Aiman Afroz and Puja Gupta, students of second semester of Centre for Mass Communication got third prize in **‘Report Writing’** in Ranchi Film Festival (SUHANA SAFAR) organised by **Directorate of Film Festivals (DFF), Ministry of Information & Broadcasting and Information and Public Relation Department (IPRD), Govt. of Jharkhand** in September 2012.
- Neha Kumari, a student of second semester of Centre for Mass Communication got second prize in **‘Debate Competition’** on the occasion of **World’s Women Day** in CUJ.
- Shreya Ghosh, a student of second semester student got second prize in **Poster Making Competition** on the occasion of **World’s Women Day** in CUJ.
- Aishwarya Raj, a student of second semester student got first prize in **Poster Making Competition** on the occasion of **World’s Water Day** in CUJ.
- Prabhat Kumar, a student of second semester student got first prize in **Essay Writing and Debate Competition on Gandhi and World Peace and Is Gandhi Relevant Today respectively**, organised by Centre for International Relations, CUJ. He also got first prize in **Hindi Debate on Gandhi**, organised by Centre for English Language. Prabhat got second prize in **English Debate** organised by Temple of Understanding Bihar.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

No.	Seminars/ Conferences/Workshops	Duration	Funding
1.	National Workshop on Media Writing (17-23 November, 2014)	One Week	In-House Funding
2.	Television Production Workshop (19-26 March, 2014)	One Week	In-House Funding
3.	Graphics & Animation Workshop (07 September 2013)	One Day	In-House Funding
4.	International Uranium Travelling Film Festival (15 January, 2013)	One Day	Centre hosted the festival
5.	Photography Exhibition and Competition, (21-23 August,	Three Days	In-House Funding

	2013)		
6.	National Community Radio Workshop (08-10 November, 2011)	Three Days	Ministry of Information & Broadcasting, Govt. of India
7.	Workshop on Understanding Cinema (15-18 October, 2011)	Three Days	In-House Funding

31. Code of ethics for research followed by the Centre: Yes

32. Student profile course-wise:

Name of the Course	Selected		Pass Percentage	
	Male	Female	Male	Female
Batch 2009	24	11	100	100
Batch 2010	08	09	100	100
Batch 2011	14	13	100	100
Batch 2012	14	18	100	100
Batch 2013	22	08	100	100
Batch 2014	21	10	100	100

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
Five-year Integrated Master Degree in Mass Comm.	NA	NA	NA	0
Ph.D. in Mass Communication	0	None	100	0

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details):

NET: 01 (One); FTII: 01; Specialized Masters Courses in different Universities: Banaras Hindu University, Varanasi (01), Pondicherry University (03), Makhnallal Chaturvedi National University of Journalism and Communication, Bhopal (01) and Bhim Rao Ambedkar University, Lucknow (02).

35. Student progression:

Student Progression	% against enrolled	
UG to PG (year wise & course wise)	1st Batch	85% Approx.
	2nd Batch	54% Approx.
	3rd Batch	40% Approx.
PG to M.Phil/Ph.D	NIL	
Ph.D to Post Doctoral	NIL	
Employed through campus selection	NIL	
Employed through other than campus recruitment	85% Approx.	
Self-employed /entrepreneurs	NIL	

36. Diversity of staff:

Percentage of staff from the State	40% (Regular- 20% & Contract 20%)
Percentage of staff from other States	60%
Percentage of staff from other countries	NIL
Percentage of staff who are graduates of the same university	NIL
Percentage of staff who are graduates from other universities within the state	30%
Percentage of staff who are graduates from universities from other states	70%
Percentage of staff who are graduates from other universities outside the country	NIL

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: Dr. Paramveer Singh, Assistant Professor has been awarded Ph.D. in Mass Communication on 29th August 2014

38. Present details about infrastructural facilities:

Library	Yes
Internet facility for staff & students	Yes
Total number of class rooms	Five
Class rooms with ICT facility	Two Smart Classrooms

Student's laboratories	One Computer-cum-print media lab
Research Laboratories	NIL
Others	One Newspaper/Magazine reading room

Students' Placement

First Batch of Five-year Integrated Course in Mass Communication (2009-14)

First batch of mass communication students have got remarkable placement just after completion of their. Students have got job in various national media houses i.e. The Statesman, Indian Express, India Today, Times Now, India News, Eenadu Television, etc.

S. No.	NAME	MEDIA ORGANISATION	PLACE
1	Ankita Kumari	Times Now	Mumbai
2	Anshul	Indian Express	New Delhi
3	Swati Verma	India Today	New Delhi
4	Rishabh Raj	The Statesman	New Delhi
5	Amrita Raj	India News	New Delhi
6	Ankita Dwivedi	Impact Public Relations	New Delhi
7	Abhyuday Anurag	Eenadu TV	Hyderabad
8	Aquil Ahmad Khan	Eenadu TV	Hyderabad
9	Bhaskar Bhushan	Eenadu TV	Hyderabad
10	Hemraj	Eenadu TV	Hyderabad
11	Jitendra Kumar	Eenadu TV	Hyderabad
12	Mahtab Alam	Eenadu TV	Hyderabad
13	Mohan Kumar	Eenadu TV	Hyderabad
14	Pawan Kumar Pandey	Eenadu TV	Hyderabad
15	Satyajeet Prakash	Eenadu TV	Hyderabad
16	Kumari Ankita	Morning India	Ranchi
17	Saket Kumar Bhardwaj	Morning India	Ranchi
18	Hena Mumtaz	NGO	Ramgarh
19	Manish	Seva Mandir	Rajasthan
20	Gargi Kumari	Jan Prawad	New Delhi

39. List of doctoral, post-doctoral students and Research Associates

- (a) From the host institution/university:
- (b) From other institutions/universities:

Sl. No.	Name of Scholars/Students	Area of Research	University last attended
1.	Dr. Richard Jahna	The Urgency of a Situation: Bringing Testimonial Writing to the Indian Classroom	Arizona Western College (United States), Parent Institution.
2.	Nazish Hena Khan	Advertising	IP University, New Delhi
3.	Rajesh Kumar	Media Education	Central University of Jharkhand (Internal)
4.	Rashmi Verma	Indian Cinema	Central University of Jharkhand (Internal)
5.	Rupa Kumari	New Media	Central University of Jharkhand (Internal)

40. Number of students of the centre getting financial assistance from the university (2-5 per year): None.

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:

- This programme has been designed by a group of senior media professors from various parts of country with a vision of establishing a pioneer media education Centre in Eastern India. During this process they analyzed various indigenous needs of this region and addressed those while designing the curriculum of the five-year integrated course. Following were the prominent professors involved:
- Prof. Tapti Basu, Calcutta University, Kolkata
- Prof. Vepa Rao, Himachal Pradesh University, Shimla
- Prof. Iftekar Ahmed, FTII, Pune
- Mr. Umakant Mishra, IIS, New Delhi.

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? Yes.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same? Yes, feedback form is filled by each student of the Centre. And feedback is communicated to the concerned teacher for the improvement of his/her performance.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? Occasionally various media persons have been invited to the Centre and they are shown curriculum of the programme for their oral feedback and suggestions.

43. List the distinguished alumni of the centre (maximum 10):

Since only one batch has passed out from the Centre so far in July 2014, hence it would be too early to enlist any distinguished alumni.

44. Give details of student enrichment programmes (conference/special lectures/ workshops/seminar) involving external experts:

Student Enrichment Programmes (2009-14)

(Conference/special lectures/workshops/seminar)

- **National Workshop:**
A One-week National Workshop on Media Writing was organized by Centre for Mass Communication from 17th – 23rd November 2014.
- **Workshop on Community Radio** was organized by Ministry of Information & Broadcasting in collaboration with Ministry of Science & Telecommunication & Ministry of Defence, Govt. of India at Central University of Jharkhand from 8th to 10th November 2011.
- **Photography Workshop & Exhibition: Three-day** event on the occasion of World Photography Day during 21st-23rd August 2013
- **‘Documentary Film Show – Showcasing Tribal Culture’** during Akhra-2013 on the University Campus. Teachers and students from the centre organized this.
- **Publication of CUJian Age:** It is a publication of the Central University of Jharkhand six page colored newspaper.
- **‘Seven-day workshop on Television Production’** for mass communication students during 19-26 March, 2014 in association with Xavier Institute of Communication, Ranchi.
- **Interactive Session** on ‘Reporting & Anchoring for TV’ was organized on 26th September 2011 with Rekha Pathak, News Editor, TAAZA TV & Announcer, All India Radio, Ranchi.
- **A workshop on ‘Understanding Cinema’** from 15th to 18th October 2011. National Awardee Documentary Filmmaker Meghnath was present.

Students’ Participation in Seminar

- Participated in the national seminars viz., **‘Future of Newspapers’, ‘Society, Governance & Media’** and **‘RTI: A Potent Weapon against Corruption’**. These events were organized by Information & Public Relations Department, Govt. of Jharkhand; Information & Public Relations Department’ Govt. of Jharkhand; and FJCCI & RTI forum Jharkhand respectively.

Special Lectures

- **‘The Television in India: Journey So Far’** on 19th September 2014. The key speakers were Sh. Rajesh Raina, Head, Eenadu Television, Hyderabad, Sh. Shailesh Pandit, Station Director, Doordarshan Ranchi,

Sh. Pramod K. Jha, Assistant Director, Doordarshan Ranchi, Sh. Omar Shadab Hashmi, Cluster Programming Head, Jharkhand & Bihar, BIG FM, Ranchi.

- ‘**Motivation for excellence**’ was delivered by Prof. Sudhir Gahvane, Ex-Vice Chancellor, Yashwantrao Chavan Maharashtra Open University, Aurangabad, Maharashtra on 2nd February 2012.
- ‘**Scope in Journalism**’ was organized on 2nd February 2012 with Prof. Vepa Rao, nationally acclaimed academician and media person.
- A special lecture on ‘**Changing trends in media**’ was delivered by Dinesh Mishra, Resident Editor, Hindustan on 28th February 2012.
- Lecture series on ‘**New Media**’ was delivered by Sujeet Kumar, Senior Sub Editor, Hindustan Times New Media Section from 21st to 28th February 2012.
- Senior Journalist Mr. Urmilesh, Former Executive Editor, **Rajyasabha TV** delivered a lecture on ‘**Scope in Journalism**’ in February 2013.
- Mr. Gautam Mazumdar, Senior Reporter, Hindustan Times delivered lecture on ‘**New Trends in Journalism**’ in March 2013.

Outreach Activities and Industrial Visits

- Students visited FM radio channel ‘**BIG 92.7**’ on 23rd March 2012. The main motive of this visit was to give them first-hand experience on radio production.
- Students visited **Birsa Munda Zoological Park & Tagore Hill**, Ranchi as part of their photography tour.
- Students visited **Ram Krishna Mission** on 13 April, 2012. The main objective of this study visit was to understand the NGO set up and the community work for rural people.
- Students participated in ‘**Ranchi Film Festival- 2012, ‘Suhana Safar’**’ in September 2012. This festival was organized by Directorate of Film Festival (DFF) Ministry of Information and Broadcasting, Govt. of India and Information and Public Relations Department (IPRD) Govt. of Jharkhand.
- Students participated in the **National Winter Trekking Expedition**, Dalhousie from 1st to 11th Jan, 2013.
- Centre hosted the **International Uranium Travelling Film Festival** on 15th Jan, 2013. Students actively participated in organizing the fest. They also took part in debate & discussion after screening of documentaries.
- Students visited Vikas Bharati NGO on 26th April, 2013.
- Students participated in the **National Winter Trekking Expedition**, Goa from 20 December to 06 Jan, 2013.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Teaching Methodologies

1. Smart Class Presentation
2. Individual/Group Assignment
3. Production Work: Lab Journal, Radio, TV & Documentary Production
4. Field Visit
5. Internship
6. Special Lectures
7. Workshop
8. Dissertation Work
9. Cultural Activities
10. Sports Activities

List of Equipment 2015

S. N.	Name of Equipment	Model/Make	Quantity	Speciation
1.	Computer (Desktop)	Infinity	25	Intel Core 2 Quad, 2GB Ram, 1 Gb Graphics, 320 GB HD space
2.	Computer (Desktop)	Acer Veriton	30	AMD Quad Core 3.6 ghz, 4Gb Ram, 1 Gb graphics (intgtd), 500 Gb HD
3.	Computer (Desktop)	HCL	1	Intel Core 2 Duo, 2GB Ram, 320 GB HD
4.	Computer (Laptop)	Macbook Pro 17"	1	Intel core 2 duo, 4 GB Ram, 2 GB graphics
5.	Video Camera	Sony HDR-XR550E	4	Handycam
6.	Still Camera (DSLR)	Sony ILCE – 3000K	3	
	Still Camera (DSLR)	Nikon D3000	1	
7.	Still Camera (Compact)	Canon SX110 IS	1	
8.	Tripod	Sony VCT-R640	6	
9.	Microphone	Ahuja CSM-990	1	
10.	Printer	HP Laser jet P2035	1	
11.	Printer	HP Laser Jet 5200n	1	
12.	Room Heater	Single Coil	1	

	Room Heater	Single Coil	1	
13.	Speakers	Altec Lansing VS4121	1	
14.	Stabilizer	Volta VS302	1	
15.	Television Set	Sony Bravia BX32	1	22"
16.	UPS	Luminous Viva	25	
17.	UPS	Elnova T640	1	
18.	UPS	Powerzen	1	15 KVA
19.	Software	Adobe Premium design CS4	25 Users	
	Software	QuarXpress 8	25 Users	
20.	Projectors	Mitsubitshi XD280U	2	
21.	Smart Classroom Set-up	Interactive Notepad and demonstration pad	2	

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

- Constant **feedback** from the students and outside experts about teaching-learning process
- Interaction among the faculty members on various problems occurring during the teaching-learning process
- Head of the Centre keeps constant monitoring for ensuring the implementation of programme objectives

47. Highlight the participation of students and faculty in extension activities:

- Students of Mass Communication volunteered in National Games held in Ranchi in 2011.
- Rashmi Verma, Assistant Professor coordinated Study visit of 4th Semester students to Krishi Mela, organized by Ramakrishan Asharam on 11th Feb, 2014, for Development Communication paper.
- Rashmi Verma co-ordinated and executed Two Street Plays on various social topics, in the local Haat, Brambe and disseminated developmental messages.
- Sudarshan Yadav, Faculty in the centre recorded a Radio Play named 'Malwa Ka Raja' which was telecast on Gyanvani channel of Varanasi on 25th December 2011.

48. Give details of "beyond syllabus scholarly activities" of the centre: (year wise):

- **Fulbright scholar: Prof. Richard Norris Jahna**, a senior researcher from Arizona Western College in the United States was attached to

Centre for Mass Communication for five months. He was a 2014-15 Fulbright-Nehru scholar and he stayed here from 1st August- 29th December 2014. He pursued research work titled '*The Urgency of a Situation: Bringing Testimonial Writing to the Indian Classroom*'. While at Centre he taught students communicative English and creative writing. Part of his project includes collecting an archive of narratives by young Indians who write about their experiences confronting both the opportunities and challenges they face in India today.

- **Knowledge Sharing Session-** Centre organizes this session to promote academic sharing through exchange of newly acquired knowledge among faculty members. In this session faculty member share their experiences after returning from any academic programmes such as Orientation Programme, Refresher Course, Seminar, Workshop, Conference, Symposia.
- **Extension Lecture Series:** Centre organizes this lecture series to promote interdisciplinary knowledge among students and faculty members. Centre invites academicians/professionals from other Centres of the university and media industry.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. NIL

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

Centre offers a five-year Integrated Course in Mass Communication with an intake capacity of 40 students per year along with Doctorate in Mass Communication. Centre is equipped with basic facilities of media training i.e. media labs, video cameras, still cameras etc. Also Centre is in the process of establishing state-of-the-art infrastructure of Radio-television studio and Community Radio Station.

(A) Strengths:

- a. Five-year Integrated Course in Mass Communication, a unique curriculum which is not being run by any institution in Eastern India.
- b. First centrally-funded institution in Jharkhand that launched mass communication course since its inception.
- c. Socio-cultural diversity among faculty members.
- d. Inter-disciplinary environment in the university.
- e. Faculty having sound mix of professional and academic background.

(B) Weaknesses:

- a. Infrastructure: lack of audio-visual studio.
- b. Human Resources: lack of technical staff.
- c. Temporary campus: Distance of 25 kilometers from the city

(C) Opportunities:

- a. At present, there is a dearth of institutions imparting quality media education in the state, hence this Centre can play pioneering role in the promotion of quality media education.
- b. Centre has opportunity to provide qualitative media professionals in order to meet growing needs of regional and national media industry.

(D) Challenges:

- a. Funds and Infrastructure.
- b. Appointment of technical and office staff.
- c. Launching new programmes in the School.

52. Future plans of the centre:

- To develop the School as **Centre of Excellence** in research in the next five years.
- A new **Centre for Media Technology** to be started in the near future under the School of Mass Communication and Media Technologies.
- **Campus Radio** and **Audio-Video Studio** is to be set-up soon.
- Short-term skill-based courses addressing specific needs of media to be launched
- Imparting various courses through **online and distance mode** in future.

CENTRE FOR BUSINESS ADMINISTRATION

1. Name of the Centre: Centre for Business Administration

2. Year of establishment: 2009

3. Is the Centre part of a School/Faculty of the University? Yes, School of Management Sciences

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.) Integrated Masters, Ph.D

5. Interdisciplinary Programmes/Courses and Centres involved: Electives offered to other centres; similarly other centres offered Electives to this centre

In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Cost Accounting	Sem-V	Business Admn	Dr A K Sarkar
Corporate Social Responsibility	Sem-V	Business Admn	Mr P K Jha
Brand Management	Sem-V	Business Admn	Dr J P Verma
Human Resource Planning	Sem-V	Business Admn	Ms P Pushpanjali
Creativity and Innovation	Sem-V	Business Admn	Mrs Keha Kaur
Materials and Purchase Management	Sem-V	Business Admn	Mr M Singh
Industrial Relations and Labour Laws	Sem-V	Business Admn	Ms P Pushpanjali
E- Commerce	Sem-V	Business Admn	Mr P K Jha
Service Marketing	Sem-V	Business Admn	Dr J P Verma

6. Courses in collaboration with other universities, industries, foreign institutions, etc NO

7. Details of Programmes discontinued, if any, with reasons NO

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System: Semester and Choice Based Credit System

9. Participation of the Centre in the courses offered by other Centres

Course	Level	Centre	Teacher
Environmental Studies	Sem-II	Centre for Environment Sciences	As per availability
Disaster Management	Sem-II	Centre for Environment Sciences	As per availability
Micro Economics	Sem-I	Deptt. Of Economics	Dr P K Mishra
Business Mathematics	Sem-I	Deptt. Of Economics	Dr P K Mishra
Macro Economics	Sem-II	Deptt. Of Economics	Dr P K Mishra
Quantitative Techniques	Sem-III	Deptt. Of Economics	Dr P K Mishra

10. Number of teaching posts sanctioned and filled:**(Professors/Associate Professors/Asst. Professors)**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	2	1	1
Assistant Professor	4	4	4

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Prof. T Ghoshal	PhD, MA, MBA	Professor	Marketing	34 years	02
Dr A K Sarkar	Ph.D. (Finance), M.B.M. (C.U.), FICWA, M.Tech (I.T.), PGDCA, DCPM(I.S.I.)	Associate Professor and Dean, School of Management Sciences, Head, Centre for Business Administration	Finance	32 years	02
Mr C Nagapavan	MBA	Assistant Professor	Marketing	13 years	Nil
Mrs Pragyan Pushpanjali	PGDBM	Assistant Professor	HRM	16 years	Nil
Mr Mahendra Singh	MBA	Assistant Professor	HRM and Marketing	5 years	Nil
Dr Nitesh Bhatia	PhD, MBA	Assistant Professor	HRM	8 years	Nil
Mrs Neha Kaur	MBA	Assistant Professor (Contract)	HR, Finance	5 years	Nil
Dr J P Verma	PhD, MBA, M.Com	Assistant Professor (Contract)	Marketing	7 years	Nil
Mr V K Sharma	AICWA, MBA	Assistant Professor (Contract)	Finance	4 years	Nil

Mr P K Jha	B.Sc. (H), MMS	Assistant Professor (Contract)	Systems Mgmt	10 years	Nil
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12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

NONE

13. Percentage of classes taken by temporary faculty:

(Programme-Wise Information) % of classes taken by temporary faculty
(MBA Programme) = $(720/1575)*100 = 45.7\%$

14. Programme-Wise Student Teacher Ratio:

Total number of students in IMBA= $37+36+34+32+35= 174$

Total number of teachers = 10

Teacher student ratio = 1:17

15. Number of academic support staff (technical) and administrative staff sanctioned and filled:

No i.e. zero

16. Research thrust areas as recognized by major funding agencies

NONE

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: NIL

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration:

(b) International Collaboration:

- University of California, San Bernardino, USA
- Assumption University, Bangkok, Thailand
- University of Washington (Collaborative Project- Dr. Nitesh Bhatia)

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:

(Total Grants Received) Nil

20. Research facility / Centre with: NIL

(a) State Recognition:

(b) National Recognition

(c) International Recognition:

21. Special research laboratories sponsored by / created by industry or corporate bodies

NIL

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
	Please see Annexure – I

23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in: Nil

(a) National Committees

(b) International Committees

(c) Editorial Boards

(d) Any Other Please Specify

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Mr.C.Nagapavan

- * UGC Orientation programme

Dr. Nitesh Bhatia

- * UGC orientation and refresher course
- * FDP titled “Workshop on Data Analysis for Management Research” April 2011, at IIM-Kozhikode.

Mr.Mahendra Singh

- * UGC Orientation Programme
- * Short Term Course on Consumer Behaviour: Role of Market Research Organised under QIP by VGSOM IIT Kharagpur, May 2012.
- * Training Programme on Soft Computing techniques for Optimization at ABV-IIITM Gwalior March 2013

Mrs. Pragyan Pushpanjali

- * UGC Orientation & Refresher Programme

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects All students do in-house projects as part of the syllabus. (Syllabus enclosed in Annexure-II)

(b) percentage of students doing projects in collaboration with other universities / industry / institute

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Team of students from Semester X, Noopur, Shalini Sudhir and Saumitra Dwivedi of IMBA- 8 semester won the first prize in the Case Study Competition at the National Seminar on Transformational

Leadership” from 5-7 April 2013 organized by Sri Ram College Of Commerce, New Delhi.

Team of Saurav Patro, Saumitra Dwivedi and J Deka won the IVth prize in the All India Business Plan competition at BHU

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

International Conference during 6th and 7th February 2014 at Brambe Campus of Central University of Jharkhand on “ The New Leap Exploring New Paradigms in Business”.

Sources of funding:

Central University of Jharkhand	Rs. 1.00 lakh
ICSSR	Rs. 1.00 lakh
Sponsorship, Fees	Rs. 5.00 lakhs(approx)

FDP on Research Methodology, 11-17th Feb 2013 (Self – Sponsored, with participants from various institutes across India)

31. Code of ethics for research followed by the Centre: As per University code of ethics

32. Student profile course-wise:

IMB A	Applications received	Selecte d male	Selecte d Female	Pass% Male	Pass% Female	Remarks
2009-2010	NA	28	11	100	100	(students also opted withdrawal after graduation)
2010-2011	NA	18	21	Runnin g batch		
2011-2012	NA	20	15	Runnin g batch		
2012-2013	NA	20	21	Runnin g batch		
2013-2014	NA	20	18	Runnin g batch		
2014-	NA	15	21	Runnin		

2015				g batch		
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33. Diversity of students: Not applicable. Students join after plus 2 course in the 5-year integrated MBA course

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
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34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): One student of HR cleared NET in last NET Examination (2014).

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	NA
PG to M.Phil/Ph.D	None
Ph.D to Post Doctoral	None
Employed through campus selection	First batch passed in June 2014.
Employed through other than campus recruitment	First batch passed in June 2014.
Self-employed /entrepreneurs	First batch passed in June 2014. Information are being gathered which will be supplied.

36. Diversity of staff:

Percentage of staff from the State	50
Percentage of staff from other States	50
Percentage of staff from other countries	NIL
Percentage of staff who are graduates of the same university	NIL
Percentage of staff who are graduates from other universities within the state	50

Percentage of staff who are graduates from universities from other states	50
Percentage of staff who are graduates from other universities outside the country	NIL

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: One (Dr. Nitesh Bhatia, Asstt. Professor)

38. Present details about infrastructural facilities:

Library	Central Library
Internet facility for staff & students	Available
Total number of class rooms	Six (6)
Class rooms with ICT facility	Four (4)
Student's laboratories	None (Centralized Laboratory)
Research Laboratories	Centralized Laboratories
Others	

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: **NIL**

(b) **From other institutions/universities: 04**

Sl. No.	Name of Students	Area of Research	University last attended
1.	Mrs. Pragyan Pushpanjali	HR	XISS
2.	Mrs. Bhumika	Marketing	
3.	Ms. Unnati	Marketing	
4.	Mr. Awn	Finance	

40. Number of students of the centre getting financial assistance from the university (2-5 per year):

Total students provided financial Assistance (freeship) to IMBA fifteen (15)

Year	Students awarded freeship
2013	5
2012	4
2011	6

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NO

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? YES

i) This is done by revision of syllabus

ii) The review of curriculum and teaching – learning is done in the faculty meetings.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Yes. Feedback is communicated to the faculty and corrective steps encouraged

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

None. This is under process.

43. List the distinguished alumni of the centre (maximum 10): First batch passed in June 2014 hence the process yet to start.

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

Students are sent for Industrial Visits as part of enrichment programmes. Some of these industries are as follows:

*** Bokaro Steel Plant, Bokaro, Jharkhand**

*** Jindal Steel and Power Ltd., Patratu, Jharkhand**

- * **Sudha Dairy, Ranchi**
- * **Mangalam Lunricants P. Ltd., Ranchi**
- * **Indian Institute of Coal Management, Coal India Limited, Ranchi**
- * **Swastik Foods P. Ltd., Ranchi**
- * **JUSCO (A Tata Enterprise), Jamshedpur**

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Case studies, group discussions, summer internship projects, role plays, management games, presentations, industrial visits

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Periodic reviews, appraisals of students with feedback

47. Highlight the participation of students and faculty in extension activities:

Industry-academy interface through industry visits, summer projects, participation in seminars, quiz contests

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

Activities organized by students forum “SPARSH”, programme organized by faculties on SPSS package, NET exam preparation, practices by students after class hour relating group discussion, presentation etc.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

The Centre strives to generate new knowledge through

- **Presentation and publication of papers in national and international forums**

- **Inviting eminent scholars and business leaders**
- **Visiting industries and academic insytitutions to disseminate knowledge**

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

Strength:

1. Most of the faculties got Industry Experience
2. Experts in the field
3. Have extensive industry interface

Weakness:

1. No Staff support to the department
2. Fragile infrastructure
3. Lack of resources

Opportunity:

1. Flexibility as the courses are still at formation stage like 5-year integrated courses

Challenges:

1. Competition by private management institutions

52. Future plans of the centre:

To create a centre for excellence, creative and extra incarnation centre

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals (15)

Dr. T. Ghoshal

- * Corporate Self-actualization: Imperative for Sustainable Growth” in the International Journal of Management Research, 2012
- * Up Against the Odds: Successful Project Execution in a Government R&D Organization: A Case Study, vol. 40 No. 4, issue Jan-March 2013, ISSN – 2249 – 6394

Dr. A.K.Sarkar

- * Presented a paper “ Human Resources Accounting Concepts and Their Applicability and Implications for Employees , Organisations, Donors and Society- A Critical Analysis” International Conference on Sustainable Development at the University of Bonn, Germany, 9-12 July, 2014
- * A Study on the Sustainability of The State Financial Corporations of India in the post liberalization era: Comparison of West Bengal State Financial Corporation (WBSC) and Bihar State Financial Corporation (BSFC), Bhavishya- Journal of Future Business School
- * Comparison of NPA Method and Asset Valuation Method For Reporting and Decision Making : A Case Bihar State Financial Corporation, International Journal of Research and Development

Mr. C. Nagapavan

- * Chintalapati, Nagapavan (2013). “Protecting the Competitive Advantage derived through HR: Challenges for IT industry” IUP Journal of Management Research Vol XII No. 3 July 2013 PP 29-44. IUP Publications
- * Chintalapati, Nagapavan and Kallakuri Naga Viswanath. (2010) “Website as a Corporate Communication Tool – A Study of B- Schools in India” The FedUni Journal of Higher Education, ICFAI University Press Feb – May 2010.
- * Chintalapati, Nagapavan and M. Nagendra Kumar (2010). “People Issues in Hospitality Industry– Issues and Challenges”, Marketing Mastermind, ICFAI University Press, May 2010.
- * Chintalapati, Nagapavan and Prabhi Gopinathan (2009), “HR Practices in a Recessionary Economy” HRM Review, ICFAI University Press, November 2009.

- * Chintalapati, Nagapavan (2009) “Results Only Work Environment – A Mirage or a Distant Dream” – HRM Review, ICFAI University Press, June 2009.

Dr. Nitesh Bhatia

- * Human Resource Audit of Change Management: New Imperative for Organizational Effectiveness. Growth - Journal of MTI, Sail
- * Rudiments of an HR Auditor for a thriving Human resource Audit. International Journal of Business Technology & Research,
- * Quality of work life satisfaction of working female professionals in private banking sector- A case study of Ranchi City (Jharkhand). International Journal of Business Technology & Research.
- * Human Resource Audit – A Concrete Scaffold. Growth - Journal of MTI, Sail

Mr. Mahendra Singh

- * “Recession, Unemployment and Recovery in India”, Indian Journal of New Dimensions, (ISSN: 2277-9876) 2012.
- * “Innovative Practices in Facility Layout Planning” International Journal of Marketing Financial Services and Management Research (ISSN: 2277-3622) 2012.

(B) Papers presented in National/International Conferences/Seminars/etc. (32)

Dr. T. Ghoshal

- * Impact of Culture on Indian Consumers: An Exploratory Study at the Academy of Marketing Science 16th Biennial World Marketing Congress, Melbourne Australia (2013)
- * Social Sensitivity And Its Impact: Lessons From A Corporate Mission at the 2nd International Conference on Social Responsibility at Humboldt University, Berlin, Germany
- * Emerging Steel Markets In India: Imperatives For Growth’ at the MAG Scholar Conference (2011), New Zealand

Dr. A. K.Sarkar

- * “Potentiality of Bihar State Financial Corporation (BSFC) towards industrialization if State Government nurture it properly” in BIT International Conclave on “ Innovations in Engineering & Management” ICEM 2013

Mr.C.Nagapavan

- * CSR and the new Companies Bill – A review on impact of Changes in Indian Companies at ICFAI University, Jharkhand Ranchi on September 19, 2013.
- * Examining CSR as a source of Competitive Advantage at ICFAI University, Jharkhand Ranchi on September 19, 2013.
- * Technology and Rural Development: An evaluation of ICT & Technology Innovation in Rural Development in India: Sept 11 – 12, 2013 at Central University of Jharkhand
- * Case study on “Case of Overcarry in Indian Railways” in Dhruva International Case Writing Competition – 2012 at Dhruva College of Management Dec 22, 2012
- * Case study on “Management of Business Schools: A case study on contribution of Strategic Leadership to Institutional Quality” Presented during XVI Annual Convention of Strategic Management Forum at IIM Kozhikode May 23 – 25, 2013.
- * Rural Entrepreneurship and Supporting Institutions: A case study of Jharkhand silk Textile and handicraft development corporation Ltd. (Jharcraft). Presented at 6th ICCB 2012 (A refereed international conference) organized jointly by IIT – Delhi and Curtin University, Australia at IIT Delhi, New Delhi. (October 2012)
- * “Social Marketing and Privacy Issues: A case study of Facebook” Presented at National Seminar on Management Challenges in the New Milieu, Organized by ICFAI University, Jharkhand, Ranchi (November 2012)
- * An examination of importance of ethical values in Higher Education and the status of imparting values through higher education in India. Presented at the International Conference on Management of Higher Education Organized by Institute of Public Enterprise, Hyderabad and Bihar State HRD Department, Patna during Oct 20 -21, 2011
- * Management of Higher Education Institutions: An applied analytical model for Management Education Institutions. Presented at the International Conference on Management of Higher Education Organized by Institute of Public Enterprise, Hyderabad and Bihar State HRD Department, Patna during Oct 20 -21, 2011
- * Corporate Social Responsibility: Sustainability as a source of Competitive Advantage. Presented at the National Conference on Corporate Social Responsibility organized by Institute of Public Enterprise, Hyderabad during June 3 – 4, 2011

Dr.Nitesh Bhatia

- * Presented a paper titled ““ Nitty-Gritty Of Industrial Relations Getting Feeble: A Case Of Nokia, Sriperumbudur Plant"at ILSE Conference , BIT Mesra.
- * Presented a paper on “Scent-Sational: Olfactory Driven Purchase Decision”, in International Conference on Research in Marketing (ICRM 2013), IIT Delhi, XLRI Jamshedpur and Curtin University, Australia, 2013
- * Presented Case Study “Beyond the Dark clouds: Saga of a Courageous Entrepreneur” at the fourth Asian Invitational conference on Family Business, at ISB Hyderabad, Feb 2013.
- * Presented Paper “HR Audit: A Prominent Tool for an Admirable Corporate Culture” at International conference-3 rd Research Week 2010, University of Mauritius
- * Presented paper “ Cloud Computing: A 'Greener' corridor to Sustainable Business Excellence" at the National Conference on Sustainable Development and Global Competitiveness", BIT Mesra, Ranchi, Dec 2012.
- * Presented Paper “Human Resource Audit- A Contrivance for Competent Personnel’s and Organization” at National Seminar on Innovation and Creativity for Business Excellence at ISM, Dhanbad, Feb 2011.

Mr. Mahendra Singh

- * “Sewadharna: Principles of Successful Subordination from Panchatantra” presented at national conference on transformational leadership 2013 at Shri Ram College of Commerce (University of Delhi) (2013)
- * “Enabling differently abled through EuroAble: A case study on Equal Opportunity to the differently abled community” presented at International Conference jointly organised by IIT Delhi and Curtin University Australia (2012).
- * “Study on Business Process Reengineering for Bringing Dramatic Improvements in Direct Tax Collection at Income Tax Department” presented at XVI Society of Operations Management Conference organised by IIM Lucknow, IIT Delhi and Grand Valley State University (2012).
- * “Study on Business Process Reengineering for Bringing Dramatic Improvements in Direct Tax Collection at Income Tax Department” presented at XVI Society of Operations Management Conference organised by IIM Lucknow, IIT Delhi and Grand Valley State University (2012).
- * “Distribution Strategies for Oil Marketing Companies for Coping with High Demand of Petroleum Products in India” presented at 4th GBMF International conference organised by Global Business and Management Forum, USA at GHSIMR Kanpur (2012)
- * “Total Cost Management for Optimizing Performance of Supply Chains” presented at National seminar organised by ICFAI University Jharkhand

- * Paper titled “ Understanding business and money through the contents of Panchatantra”, presented in International seminar at UDSC, Delhi University, Dec. 2011
- * Paper titled “Infrastructural development of India” at national Seminar organized by Department of Applied Economics, University of Lucknow, 2011.
- * Paper titled “Integrated waste management of Plastics” at National seminar organized by Invertis University, Bareilly, 2010.
- * National seminar on “Emerging trends in banking sector in India 2010 organised by Department of Applied Economics, University of Lucknow

Mrs. Pragyam Pushpanjali

- * Employer Branding- Issues and Dimensions, 65th All India Commerce Conference of The Indian Commerce Association
- * Valuation, accounting and Reporting of Human Resources for enhancing the performance of Individuals, Groups and organizations – The next paradigm for Accounting and Human Resource Management, International Conference,”The New Leap Exploring New Paradigms in Business

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books (10)

Dr. A. K.Sarkar

- * An Appraisal of Long Term Solvency of Eastern Coalfields Limited(ECL) and Central Coalfields Limited(CCL) during 2003-04 to 2012-13: A comparative Study towards Exploring New Strategies for Business, Proceeding of International Conference,” The New Leap Exploring New Paradigms in Business
- * The Importance of Human Resources Accounting and its Impact on the Quality of Accounting Information to Equip Challenges for Modern Business, International Conference,”The New Leap Exploring New Paradigms in Business

Mr. C.Nagapavan

- * Chintalapati, Nagapavan. (2013). Management of Business Schools: A case study on contribution of Strategic Leadership to Institutional Quality. “India & Indigenous strategies” Chatterjee, Dehashis, Gopinath, Saji; Suram, Balasubrahmanyam and Deepak Dhayanithy (Eds) Excel India Publishers. New Delhi (pp. 462 – 470) ISBN: 978-93-82880- 96-3
- * Chintalapati, Nagapavan, & Sinha, Sumit. Kumar. (2011). Management of Higher Education Institutions: An Applied Analytical Model for Management Education Institutions. In M. Sahay, & R. K. Mishra (Eds.),

Imperatives for Quality Higher Education (pp. 64-78). New Delhi: McMillan Publishers India Ltd. ISBN: 978-9350-59004-1

- * Ashok, A. V. S, Chintalapati, Nagapavan. & Talluri, Srinivas. (2011). An examination of importance of ethical values in Higher Education and the status of imparting values through Higher education in India. In M. Sahay, & R. K. Mishra (Eds.), Imperatives for Quality Higher Education (pp. 210 - 218). New Delhi: McMillan Publishers India Ltd. ISBN: 978-9350-59004-1
- * Chintalapati, Nagapavan. (2012). Student Admission Process. In B. Dutta(Ed), Management of Management Department—A Road to Excellence. Bangalore: MTC Global. ISBN: 978-81-922178-0-2

Dr. Nitesh Bhatia

- * An Intuitionistic Approach to EOQ Problem with Price Breaks. New Delhi: Excel India Publishers.
- * Spiritual Intelligence at the Workplace. In High- Tech People, high - Touch HR, Are We Missing the Humane Touch?: Bloomsbury Publishing India (P) Ltd.
- * Human Resource Audit – A Contrivance for competent Personnel’s and Organization. Innovation and Creativity for Business Excellence. Excel India Publishers.

Mr. Mahendra Singh

- * “KVIC and Implementation of Prime Ministers Employment Generation programme (PMGEP)” published in edited book titled: Entrepreneurship and Innovation (ISBN: 9788185245997). 2012

(E) Impact Factor – Range and Average

(F) Citation Index – Range and Average:

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index:

ANNEXURE-II

Integrated MBA Program Structure (For session July 2013)

Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI
Principles of Management	Principles of Marketing – I	Principles of Marketing – II	Production & Operations Management	Summer Project Report & Presentation-I	Supply Chain Management
Micro Economics	Behavioural Sciences	Business Law	Management Information System	Elective – I	Operations Research
Financial Accounting	Statistics for Managers	Quantitative Techniques	Research Methodology	Elective – II	Entrepreneurship Development
Fundamentals of Computers	Financial Management	Organizational Behavior	Project Management	Elective – III	Product Management
Business Mathematics	Environmental Studies	Management Accounting	Human Resource Management	Elective – IV	Business Ethics
Business Communication	Macro Economics	Business Environment	Consumer Behavior	Elective – V	Comprehensive Viva-Voce
Communicative English	Personality Growth Lab	Interpersonal skills & Working in teams	Field Project	Elective – VI	Industry Project

Electives To be opted from following in semester V

Cost Accounting	Corporate Social Responsibility	Brand Management	Human Resource Planning	Creativity and Innovation
Materials and Purchase Management	Industrial Relations and Labour Laws	E-Commerce	Service Marketing	

Semester VII	Semester VIII	Semester IX	Semester X
Analysis &	Business Laws –	Strategic	Corporate

Decision Making	II	Marketing Management	Governance and Public Policy
Strategic Management	Total Quality Management	Foreign Language -I (Chinese/ Korean)	Foreign Language –II (Chinese/ Korean)
Organization Development & Change	F E –A/B/C- I	F E –A/B/C- IV	Enterprise Risk Management
Logistics Management	F E –A/B/C- II	F E –A/B/C- V	Entrepreneurial Business and Management
Business Process Reengineering	F E –A/B/C- III	F E –A/B/C- VI	Business Simulations
Financial Statement Analysis	SE – I	SE – II	Management by Human Values
Summer Project Report & Presentation-II	Summer Project Report & Presentation-I	Summer Project Report & Presentation-I	Comprehensive Viva-Voce

Functional and Sectoral Electives (F E/ SE)

FUNCTIONAL ELECTIVES			SECTORAL ELECTIVES
Financial Management	Marketing Management	Human Resource Management	
Management of Financial Services	Global Marketing	Global HRM	Hospitality & Tourism Management
Portfolio Management	Retail Management	Advanced Labour Laws	Co-operative Management
Taxation	Integrated Marketing Communication	Human Resources Development	International Business
Derivatives and Risk Management	Sales Management	Negotiation & Conflict Management	Event Management
Money Market & Capital market	New-Age Marketing	Compensation Management	Management of Nonprofit Organizations
International finance	Customer Relationship Management	Performance Management Systems	
Security Analysis	Rural Marketing	Strategic HRM	
Advance Corporate Finance	B2B Marketing	HRIS & HR Audit	

CENTRE FOR APPLIED MATHEMATICS

- 1. Name of the Department:** Centre for Applied Mathematics
- 2. Year of establishment:** 2009
- 3. Is the Department part of a School/Faculty of the University?** Yes, School of Natural Sciences
- 4. Names of Programmes offered:** Ph.D., 5 year Integrated Masters
- 5. Interdisciplinary Programmes and Departments Involved:**
Interdisciplinary programs- Economics, Disaster Management, Principles of Chemistry, Introductory Physics, Environmental Studies, English for Communication
Departments Involved- School of Humanities, Land Resource and Management, Applied Chemistry, Applied Physics, Environmental Sciences, English Language
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc:** Nil
- 7. Details of Programmes discontinued, if any, with reasons:** NA
- 8. Examination System:** Semester, Choice Based Credit System
- 9. Participation of the Department in the courses offered by other Centers:** Applied Physics, Applied Chemistry, Nanotechnology, Life Science, Environmental Science, Energy Engineering, Water Engineering and Management, Land Resource and Management, Centre for English Language, Centre for Far East Language (Chinese), Centre for Far East Language (Korean), Centre for Far East Language (Tibetan), Indigeneous Cultural Studies
- 10. Number of teaching posts sanctioned, filled and actual: (Professors/Associate Professors/Asst. Professors)**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	1
Associate Professor	2	0	2
Assistant Professor	4	4	4

- 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience (Teaching/ research)	No. of Ph.D Students Enrolled/Guided in last 4 years
Dr. P. K. Parida	PhD	Assistant Professor	Numerical Analysis	6	3
Dr. J. Tanti	PhD		Algebra, Number theory	3	Nil
Dr. H.	PhD		Number	4	2

Mahato			Theory, Combinatorics		
Dr. Jitendra Kumar	PhD		Differential Equations, Applied Mathematics	2	Nil

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:
Three

Prof. B.B. Bhattacharya

Prof. Vanshi Dhar

Prof. K.C. Prasad

13. Percentage of classes taken by temporary faculty: 53% In Integrated Masters

(Programme-Wise Information)

14. Programme-Wise Student Teacher Ratio: 12:1 In Integrated Masters

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Nil

16. Research thrust areas as recognized by major funding agencies:
Numerical Analysis; Algebra; Number Theory; Combinatorics; Differential equations; Mathematical Modelling

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: Nil

(b) International Collaboration: Nil

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil

(Total Grants Received)

20. Research facility / Centre with:

(a) State Recognition: Nil

(b) National Recognition: Nil

(c) International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

Number of papers published in peer reviewed journals (national/International): 10 (international)

Monograph: Nil

Chapters in Books: Nil

Edited books: Nil

Books with ISBN with details of publishers

Number listed in international database (for e.g. Web of Science, scopus, Humanities, international complete, Dare databases-International Social Sciences Directory, EBSCO host etc.): 10

Citation Index-range/average: 7-20 Average 13.4

SNIP:

SJR:

Impact factor-range/average: 0-1, 0.55025

h index: 6

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in:

- (a) **National Committees:** Nil
- (b) **International Committees:** Nil
- (c) **Editorial Boards:** Nil
- (d) **Any Other Please Specify:** Nil

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Dr. Pradip Kumar Parida

- i.) Orientation Programme organized by UGC-Academic Staff College, Ranchi University during 25-11-2012 to 22-12-2012.
- ii.) Refresher Course in “Basic Sciences(Physics, Chemistry & Mathematics)” organised by UGC-Academic Staff College, Ranchi University during 03.03.2014 to 23.03.2014.

Dr. Jagmohan Tanti

- i.) Orientation Programme organized by UGC-Academic Staff College, Ranchi University during 25-11-2012 to 22-12-2012.
- ii.) Refresher Course in “Statistics, Mathematics, Computer Science & Information Technology (MD)” organised by UGC-Academic Staff College, Kumaun University during 29.09.2014 to 15.10.2014.

Dr. Hrishikesh Mahato

- i.) Orientation Programme organized by UGC-Academic Staff College, Ranchi University during 2014.

Dr. Jitendra kumar

- i.) Orientation Programme organized by UGC-Academic Staff College, HP University during 2013.

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 100%, All 10th semester students

(b) percentage of students doing projects in collaboration with other universities / industry / institute : Nil

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

- i.) **National Seminar on Challenges in Mathematical Sciences**, jointly organised by Jharkhand Society of Mathematical Sciences, and Centre for Applied Mathematics, Central University of Jharkhand, February, 2014. Funded by Jharkhand Society of Mathematical Sciences, and Central University of Jharkhand.
- ii.) **Instructional School-2013 on Group theory ad Linear Algebra**, Centre for Applied Mathematics, CUJ, Ranchi, Dec., 17, 2013- Jan.,6, 2014. Funded by NBHM and Central University of Jharkhand.

31. Code of ethics for research followed by the Centre: Strict avoidance of plagiarism and faithful documentation of research sources.

32. Student profile course-wise:

2009 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	8	6	75	83.3

2010 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	6	8	Yet to Pass	Yet to Pass

2011 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	7	7	Yet to Pass	Yet to Pass

2012 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	11	14	Yet to Pass	Yet to Pass

2013 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	16	19	Yet to Pass	Yet to Pass

2014 BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated MSc.	NA	16	10	Yet to Pass	Yet to Pass

PHD BATCH

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
PhD	NA	4	1	Yet to Pass	Yet to Pass

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
Int. MSc.	0	NA	NA	0
PhD	0	40	60	0

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): Nil

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	100%
PG to M.Phil/Ph.D	0
Ph.D to Post Doctoral	NA
Employed through campus selection	Nil
Employed through other than campus recruitment	Nil
Self-employed /entrepreneurs	NA

36. Diversity of staff:

Percentage of staff from the State	0
Percentage of staff from other States	100
Percentage of staff from other countries	
Percentage of staff who are graduates of the same university	0
Percentage of staff who are graduates from other universities within the state	25
Percentage of staff who are graduates from universities from other states	75
Percentage of staff who are graduates from other universities outside the country	0

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: 2

38. Present details about infrastructural facilities:

Library	Yes
Internet facility for staff & students	Yes
Total number of class rooms	5
Class rooms with ICT facility	2
Student's laboratories	1
Research Laboratories	Nil
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Doctoral Students

Nil

(b) **From other institutions/universities: 5**

Sl. No.	Name of Students	Area of Research	University last attended
1.	Siddhesh Satyakar	Number Theory	
2.	Himanshu Kumar	Numerical Analysis	
3.	Shwet Nisha	Numerical Analysis	
4.	Naseer Ahmad Malik	Number Theory	
5.	Prasanta Kumar Sahoo	Numerical Analysis	

40. Number of students of the centre getting financial assistance from the university (2-5 per year): NA

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NA

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

The syllabus is constantly revised and updated by faculty members. Their suggestions and opinions are included in the syllabus after lengthy debates and deliberations and consequent ratification by the Academic Council of the University. The faculty members also suggest innovations in teaching-learning process such as on the modes of sessional examination (Take home assignment, written tests, viva voce).

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

The students submit six- monthly confidential report on the academic performance of the teachers. The Centre Coordinator accordingly suggests teachers to improve their academic endeavors.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? Nil

43. List the distinguished alumni of the centre (maximum 10): Nil

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: Nil

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

- i.) Power Point presentations,
- ii.) Smart Classes,

- iii.) Use of Computer Lab
- iv.) Students Presentations

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

- i.) There is a provision for the continuous assessment and evaluation of students through three sessionals and End Semester examination.
- ii.) The centre also recommends paper-coordinators to look into the completion of the courses offered.

47. Highlight the participation of students and faculty in extension activities:

- iii.) Students and faculty members enthusiastically participate in all co-curricular activities of the University. In the recent past, they have helped the University organize festivals such as Salva Tagore, Akhra-2012 & Akhra 2013 and so on.

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise): Some of the students are teaching in “Unnayan”.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. NA

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

- i.) Infrastructural Facilities (Smart Classrooms, Projector & Computer Lab)
- ii.) Innovative and Advanced Syllabus
- iii.) Quality Faculty
- iv.) Innovative Idea of Integrated Programme
- v.) Punctual, Transparent and Efficient Academic Environment

(B) Weaknesses:

- i.) Lack of Secretarial Assistance
- ii.) Less number of Faculty members
- iii.) Non-availability of Personal Cabin for Teachers
- iv.) Absence of Centre Library
- v.) Temporary Campus

- vi.) Only one Computer Lab, Absence of Mathematical, Statistical and Computer software.

(C) Opportunities:

- i.) To help and promote quality research
- ii.) To set a standard in Mathematics teaching in Jharkhand
- iii.) Financial Grants for organizing/attending conferences and workshop

(D) Challenges:

- i.) To attract good students from Jharkhand as well as outside of Jharkhand
- ii.) To have and retain quality teachers
- iii.) Developing a good library
- iv.) Distance from the town
- v.) To sustain quality teaching-learning environment
- vi.) To cater to the professional challenges of the students

52. Future plans of the centre:

- i.) To develop the Centre into Centre for Excellence.
- ii.) To collaborate with National and International Institutes to promote quality research and teaching.
- iii.) To organize Workshops/ Conferences/Seminars/ Symposia.
- iv.) To start a MTech program in Computer Science for Science students.
- v.) To start Msc. programs in Applied Mathematics and Statistics.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

NAME: Dr. Pradip Kumar Parida

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. P.K. Parida and D.K. Gupta, Convergence of an iterative method in Banach spaces with Lipschitz continuous first derivative, *Int. J. of Applied Nonlinear Science*, Accepted, In Press, 2014.
2. P.K. Parida, D.K. Gupta and S. Parhi, On semilocal convergence of a multipoint third order method with R-order $(2+p)$ under a mild differentiability condition, *J. Appl. Math. & Informatics*, 31(2013) 399 – 416. IF-0.059
3. P.K. Parida and D.K. Gupta, Semilocal convergence of a third order Chebyshev-type method under a mild differentiability condition, *International Journal of Computer Mathematics*, 87 (2010) 3405-3419. **IF-0.721**
4. P.K. Parida and D.K. Gupta, A cubically convergent iteration method for multiple roots of $f(x) = 0$, *International Journal of Computer Mathematics*, 87 (2010) 877-884. **IF-0.721**
5. P.K. Parida and D.K. Gupta, On the R-order convergence of a third order method in Banach spaces under mild differentiability conditions, *International Journal of Computational Methods*, 6 (2009) 291-306. **IF-0.7.**

(B) Papers presented in National/International Conferences/Seminars/etc.

1. P.K. Parida, On R-order convergence of Newton-like methods in Banach Spaces”, in the **National Seminar on Challenges in Mathematical Sciences**, jointly organised by Jharkhand Society of Mathematical Sciences, and Centre for Applied Mathematics, Central University of Jharkhand, February, 2014.
2. **Invited Talk in Instructional School-2013 on Group theory ad Linear Algebra, Centre for Applied Mathematics, CUJ, Ranchi, Dec., 17, 2013- Jan.,6, 2014.**
3. P.K. Parida, A Study of Convergence Analysis of Newton-like Methods, *1st Bi-Annual Conference of Jharkhand Society of Mathematical Sciences*, JSMS, Ranchi University, Ranchi, India, November 2012.
4. P.K. Parida, On semilocal convergence of Halley-like methods under a mild differentiability condition, *International Conference on Differential*

Geometry, Functional Analysis and Applications (ICDGF AA 2012), Jamia Millia Islamia, New Delhi, India.

5. P.K. Parida, Semilocal convergence of a family of Chebyshev-type methods under a mild differentiability condition, *National Symposium in Mathematics for Young Researchers (NSM 2010)*, IIT Gandhinagar, Ahmedabad, India.
6. P.K. Parida, On R-order convergence of Halley-like methods in Banach spaces, *Research Meet 2011*, MS University, Varodara, India.
7. P.K. Parida, Semilocal convergence of Chebyshev-type methods under a mild differentiability condition, *Mathematics Meet 2011*, Gujarat University, Ahmedabad, India.

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

(E) Impact Factor – Range and Average : 0-1, 0.55025

(F) Citation Index – Range and Average : 72

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathSciNet, EBSCO, PROQUEST, etc.)

MathSciNet

(H) h-index / i10-index: 6 / 2

NAME DR. JAGMOHAN TANTI

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. Jagmohan Tanti and S. A. Katre, Euler's criterion for septic nonresidues, *Int. J. of Numb. Th.* Vol. 6, No. 6 (2010) 1329-1347.
2. Jagmohan Tanti and R. Thangadurai, Distribution of residues and primitive roots, Proceedings of Mathematical Sciences, *Indian Academy of Sciences*, Vol. 123, No. 2, (2013) 203-211.

(B) Papers presented in National/International Conferences/Seminars/etc.

1. Presented a research paper entitled "Carlitz's equation over finite fields" in *National Symposium in Number Theory* jointly organised by IISER, Pune and Bhaskaracharya Pratishthana, Pune (31st May to 3rd June, 2011).
2. Presented a research paper entitled "Distribution of residues and primitive roots" in the *1st Bi-annual conference of Jharkhand Society*

of Mathematical Sciences, Ranchi University, Ranchi (Nov. 22 to 23, 2012).

3. Presented a research paper entitled “Space of Invariant Bilinear Forms” in National Conference on ‘*Recent Advances in Statistical and Mathematical Sciences and their Applications*’ during October 04-06, 2014 held at Kumaun University, Nainital.

(C) Books/Monographs/Edited Books- Nil

(D) Chapter(s) in Books- Nil

(E) Impact Factor – 0.392 to 0.529

(F) Citation Index – 0

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)- ASCII, Springer.

(H) h-index / i10-index: 0

NAME:- Dr. Hrishikesh Mahato

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. KC Prasad, H Mahato, S Mishra: A NEW POINT IN LAGRANGE SPECTRUM, *International Journal of Number Theory*, 9 (02), 393-403, 2013.
2. Mahato, Hrishikesh, Md. Akabar Ansari : An elementary proof of classification of commutative rings with identity of order p^2 , *South East Asian J. Math. Math. Sci.*, 8 (1), 9-15, 2009.
3. H Mahato : ON EXISTENCE OF WILLIAMSON SYMMETRIC CIRCULANT MATRICES, *Bulletin of the Institute of Mathematics Academia Sinica (New Series)*, Vol. 6 (2011), No. 1, pp. 27-39.

(B) Papers presented in National/International Conferences/Seminars/etc

1. National Conference on Modern Application of Mathematical Sciences organized by *Indian Society of Mathematics and Mathematical Sciences*, Feb 22-24, 2008.
2. Recent Trends in Mathematics and its Applications organized by *Indian Society of Mathematics and Mathematical Sciences*, Feb 28-Mar.1, 2003.
3. *Ist Biannual Conference of Jharkhand Mathematical Society*, 2012

4. Invited Talk in *Instructional School-2013 on Group theory ad Linear Algebra*, Centre for Applied Mathematics, CUJ, Ranchi, Dec., 17, 2013- Jan.,6, 2014

(C) Books/Monographs/Edited Books

NIL

(D) Chapter(s) in Books

NIL

(E) Impact Factor – Range and Average

0-0.39: 0.39

(F) Citation Index – Range and Average

NIL

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

World Scientific, w3.math.sinica.edu, Zentralblatt MATH

(H) h-index / i10-index:

NIL

CENTRE FOR APPLIED PHYSICS

1. Name of the Centre: Applied Physics

2. Year of establishment: 2009

3. Is the Centre part of a School/Faculty of the University? Yes

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.): Five Year Integrated M. Sc & Ph. D

5. Interdisciplinary Programmes/Courses and Centers involved:

Centre for Energy Engineering, Centre for Water Engineering and Management, Centre for Applied Chemistry, Centre for Applied Mathematics, Centre for Environmental Sciences, Centre for Life Sciences, Centre for Land Resource and Management

In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Intermediate energy nuclear physics	UG	Centre for Applied Physics (CAP)	Dr. Dharmendra Singh
Applied radiation physics	UG	Centre for Applied Physics (CAP)	-
Classical field theory	UG	Centre for Applied Physics (CAP)	Dr. Sanjay Gupta
Mathamatical biology	UG	Centre for Applied Physics (CAP)	Prof. N. Nayak
Nanosience and nano-technology	UG	Centre for Applied Physics (CAP)	-
Fibre and integrated optics	UG	Centre for Applied Physics (CAP)	Prof. S. Medhekar
Experimental physics	UG	Centre for Applied Physics (CAP)	-
Communication electronics	UG	Centre for Applied Physics (CAP)	Dr. Vineet Kumar Agotiya
Special Theory of Relativity	UG	Centre for Applied Physics (CAP)	Dr. Avijit Ghosh
Opto electronicsand fibre optic communication	UG	Centre for Applied Physics (CAP)	Dr. Ashish Mishra
Tensor calculus and its basic application in physics	UG	Centre for Applied Physics (CAP)	Dr. Sanjay Gupta

6. Courses in collaboration with other universities, industries, foreign institutions, etc:

None

7. Details of Programmes discontinued, if any, with reasons: None

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System: Semester System (Three sessional examinations in each semester)

9. Participation of the Centre in the courses offered by other Centres

Course	Level	Centre	Teacher
Principles of Chemistry	UG	Centre for Applied Chemistry	Dr. Satish Kumar singh Dr. partho Ghosh
(i) Mathematics (ii) Fundamentals of Computer & C programming	UG	Centre for Applied Mathematics	Dr. Jitendra Kumar Dr. Sandip Mal
Environmental Studies	UG	Centre for Environmental Sciences	Dr. Bhasker Singh Dr. kuldeep Bauddh
Introductory Biology	UG	Centre for Life Sciences	Dr. Chhaya Thakur
Disaster Management	UG	Centre for Land and Resource Management	Dr. Kiran Jalem
Communicative English	UG	Centre for English studies	MD. Aslam Parwez
Research Methodology	Ph.D.	Centre for Applied Physics	Prof. N. Nayak

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	Nil
Associate Professor	02	00	Nil
Assistant Professor	04	04	Nil

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D Students Enrolled/Guided in Last 4 years
Dr. S Medhekar	Ph D	Professor	Photonics	18	01
Dr. N. Nayak	Ph D	Professor	Quantum Optics and Laser Physics	35	00
Dr. Abhijit Ghosh	Ph D	Assistant Professor	Condensed Matter Physics	04	01
Dr. Dharmendra Singh	Ph D	Assistant Professor	Experimental Nuclear Physics	06	02
Dr. Sanjay Gupta	Ph D	Assistant Professor	Condensed Matter Physics	06	01 (Co- supervisor)
Dr. Vineet Kumar Agotiya	Ph D	Assistant Professor	High Energy Physics	03	01
Dr. Ashish Kumar Mishra	Ph D	Assistant Professor (Contract)	Fiber Optics	01	00
Dr. Sandip Chaudhary	Ph D	Assistant Professor UGC FRP	Condensed Matter Physics	03	00

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

Nil

13. Percentage of classes taken by temporary faculty:

(Programme-Wise Information)

UG (~35%), PG (~15%), Ph.D. (~10%)

14. Programme-Wise Student Teacher Ratio:

UG (45 :1) PG (30:1)

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Zero

16. Research thrust areas as recognized by major funding agencies:

Experimental Nuclear Physics, High Energy Physics, Photonics

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Dr. S. Medhekar	Modelling and analysis of all-optical switching devices based on waveguide and photonic crystal geometry	24 Lakhs	3 Years	Ongoing	Department of Science and Technology (DST), New Delhi, India
Dr. Dharmendra Singh	1. Role of target deformation on incomplete fusion dynamics in energy range 3-8 MeV/nucleon	23,30,000/-	2011-2014 (Three Years)	Ongoing	Department of Science and Technology (DST), New Delhi, India
	2. Role of Target Deformation on Incomplete Fusion dynamics during heavy Ion Collisions	6,75,000/-	2013-2016 (Three Years)	Ongoing	Inter University Accelerator Centre (IUAC), New Delhi, India
	3. Study of Complete and Incomplete Fusion Dynamics by Using Heavy Ion Beams”	6,00,000/-	2013-2015 (Two Years)	Ongoing	University Grant Commission (U.G.C), New Delhi, India
Dr. Vineet Kumar Agotiya	1. Some Outlook of strongly interacting quark Gluon Plasma	6,00,000/-	2013-2015 (Two Years)	Ongoing	University Grant Commission (U.G.C), New Delhi, India

18. Inter-institutional collaborative projects and associated grants received

(a) **National Collaboration:** Grant received Zero, but collaboration with various institutes.

(b) **International Collaboration:** Grant received Zero, but collaboration with various institutes.

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:
(Total Grants Received)

DST (Rs. 47, 30,000/-), UGC (Rs. 12, 00,000), IUAC (Rs. 6,75,000/-)

20. Research facility / Centre with:

(a) State Recognition: Nil

(b) National Recognition: Nil

(c) International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Prof. S. Medhekar	<ol style="list-style-type: none">1. "Mutual-focusing of two co-propagating beams and formation of trapped spatial breather pair in saturable nonlinear media" Ram Krishna Sarkar and S. Medhekar, <i>OPTIK</i> 121 (2010) p-339–346.2. Switching Behaviour of a Nonlinear Mach-Zehnder Interferometer, Arpita Srivastava, Punya Prasanna Paltani and S. Medhekar, <i>Pramana</i>, Vol.74 Number 4 (2010) p. 575-590.3. "Optimally Stabilized Beam Pairs", PunyaPrasannaPaltani and S. Medhekar, <i>OPTIK</i>, vol. 122, issue 1, pp. 70-75(2011).4. All-optical Circulator Based on Cross Phase Modulation in a Nonlinear Mach-Zehnder Interferometer, PunyaPrasannaPaltani and S. Medhekar, <i>OPTIK</i>, Volume 122, Issue 5, March 2011, Pages 464-466.5. Switching of One Beam by Another in a Kerr Type Nonlinear Mach-Zehnder Interferometer, Arpita Srivastava and S. Medhekar, <i>Optics & Laser Technology</i>, vol. 43, issue 1, pp. 29-35(2011).6. Coupled tapered / uptapered optical beams" Arpita Srivastava, Ram Krishna Sarkar, Shraddha Prasad and S. Medhekar,<i>OPTIK</i>, 122 (2011) 2039– 20437. Switching Behaviour of a Nonlinear Mach-Zehnder Interferometer; Saturating Nonlinearity" authored by Arpita Srivastava and S. Medhekar <i>Optics & Laser Technology</i> 43 (2011) 1208–12118. Coupled Propagation in Electromagnetically Induced Transparent Medium; Thirring Type Soliton Pairs and Breather Pairs" Authored by Shraddha Prasad, Ram Krishna Sarkar, Arpita Srivastava and S. Medhekar , <i>Journal of Electromagnetic Waves and Application, J. of Electromagn. Waves and Appl.</i>, Vol. 25, 923–

	<p>933, 2011.</p> <p>9. Investigations on the combustion parameters of a dual fuel diesel engine with hydrogen and LPG as secondary fuels by D. B. Lata, A. Mishra and S. Medhekar, International Journal of Hydrogen Energy Vol. 36, 13808–13819, 2011</p> <p>10. Signal amplification based on the local nonlinear Mach–Zehnder interferometer by Arpita Srivastava, Man Mohan Gupta, S. Medhekar, Optics & Laser Technology, Vol. 44, 492–496, 2011</p> <p>11. Switching behavior of a nonlinear Mach–Zehnder interferometer: Saturating nonlinearity, Arpita Srivastava, S. Medhekar, Optics & Laser Technology, Vol. 43, Pages 1208 to 1211, 2011.</p> <p>12. Effect of hydrogen and LPG addition on the efficiency and emissions of a dual fuel diesel engine, D. B. Lata, A. Mishra and S. Medhekar, International Journal of Hydrogen Energy Vol. 37, Pages 6084–6096, 2012</p> <p>13. Switching Behavior of a Nonlinear Mach-Zehnder Interferometer with Exponentially Saturable Nonlinearity, Arpita Srivastava and S. Medhekar, Optical Engineering, Vol. 51, Pages 074604-1 to 074604-4, 2012.</p> <p>14. Effect of change in core width and core refractive index on the switching behavior of a nonlinear Mach–Zehnder interferometer, Arpita Srivastava, Sarang Medhekar, Optical Engineering 51(9), 094601 (September 2012)</p> <p>15. Coupled tapering/uptapering of soliton pairs in nonlinear media, Shraddha Prasad, Ram Krishna Sarkar and SarangMedhekar, Optik - Int. J. Light, Electron Opt., 124 (2013) 6661– 6665, http://dx.doi.org/10.1016/j.ijleo.2013.05.108</p> <p>16. Study of nonlinear optical properties of organic dye by Z-scan technique using He–Ne laser, R. K. Choubey S. Medhekar, R. Kumar S. Mukherjee Sunil Kumar, J Mater Sci: Mater Electron, DOI 10.1007/s10854-014-1743-3.</p> <p>17. Switching Behavior of Nonlinear Mach-Zehnder Interferometer Based on Photonic Crystal Geometry, Man Mohan Gupta and S Medhekar, Pramana – J. Phys., Vol. 82, No. 6, June 2014, pp. 1061–1074</p> <p>18. A versatile optical junction using photonic band-gap guidance and self-collimation, Man Mohan Gupta and SarangMedhekar, Applied Physics Letters 105, 131104 (2014)</p>
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<p>Dr. Sanjay Gupta</p>	<ol style="list-style-type: none"> 1. Physics of Interface: Mott insulator barrier sandwiched between two metallic plane. Sanjay Gupta, Tribikram Gupta, Solid State Communications (Fast Track Communication), 152, 53-55 (2012) 2. Physics of Interface: Correlated barrier with deterministic disorder sandwiched between two metallic plane. Sanjay Gupta and Tribikram Gupta, Solid State Communications, 152, 878-882 (2012)
<p>Dr. Vineet Kumar Agotiya</p>	<ol style="list-style-type: none"> 1. Charmonium suppression in the presence of dissipative forces in a strongly coupled quark-gluon plasma, B. K. Patra, Vineet Agotiya, and V. Chandra, European Physical Journal C 67, 465, 2010. 2. χ_c and χ_{cb} states in hot quark gluon plasma, B. K. Patra, Lata Devi, Uttam Kakade, Vineet Agotiya and V. Chandra, Journal of Modern Physics, 2012, 3, 483-491. 3. J/ψ suppression in the presence of dissipative forces in a sQGP, Vineet Agotiya and B. K. Patra, Nucl. Phys. A 862-863 (2011) 293-296. 4. Strongly-interacting QGP and quarkonium suppression at RHIC and LHC energies, Vineet Agotiya, Lata Devi, Uttam Kakade and B. K. Patra, International J. of Mod. Phys. A Vol.27, no.2 (2012) 1250009.
<p>Dr. Dharmendra Singh</p>	<ol style="list-style-type: none"> 1. Incomplete fusion dynamics by spin distribution Measurements D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, P. P. Singh, M. K. Sharma, B. P. Singh, R. K. Sinha³, Rakesh Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik Physical Review C, 81 (2010) 027602. 2. Investigation of incomplete fusion in $^{20}\text{Ne} + ^{55}\text{Mn}$ reactions at 3-8 MeV/nucleon. R. Ali, D. Singh, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Journal of Physics G: Nucl. & Part. Phys. 37 (2010) 115101. 3. Reaction mechanism in $^{20}\text{Ne} + ^{59}\text{Co}$ System at 3-7 MeV/nucleon and observation of entrance channel mass-asymmetry on incomplete fusion fraction. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Physical Review C 83, (2011) 054604. 4. Measurement and analysis of excitation functions and observation of mass-asymmetry effect on incomplete fusion dynamics. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid and R. Guin EPJ Web of Conferences 17, (2011) 101 5. Observation of mass-asymmetry effect on incomplete fusion for $^{20}\text{Ne} + ^{165}\text{Ho}$ system. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Nuclear Physics A, 879 (2012) 107.

	<ol style="list-style-type: none"> 6. Shears mechanism in ^{109}In. D. Negi, T. Trivedi, A. Dhal, S. Kumar, V. Kumar, S. Roy, M. K. Raju, S. Appannababu, G. Mohanto, J. Kaur, R. K. Sinha, D. Choudhury, D. Singh, R. Kumar, R. P. Singh, S. Muralithar, A. K. Bhati, S. C. Pancholi and R. K. Bhowmik Physical Review C, 85 (2012) 057301. 7. Evidence of Quasifission in asymmetric reactions forming the ^{250}Cf compound system C. Yadav, R. G. Thomas, R. K. Choudhury, P. Sugathan, A. Jhingan, S. Appannababu, K. S. Golda, D. Singh, Ish Mukul, J. Gehlot, E. Prasad, H. J. Wollersheim Physical Review C, 85(2012) 057301. 8. Electrical and optical studies of pure and Ni-doped CDS quantum dots Arfat Firdous, D. Singh and M.M. Ahmad Applied Nanoscience DOI 10.1007/s 13204-012-0065-0. 9. Reaction Mechanism in ^{16}O Ion Interaction with Light Nuclei ^{45}Sc, ^{74}Ge and Mass- Asymmetry Effect on Incomplete Fusion Dynamics Dharmendra Singh^{1,*}, Mohammad Afzal Ansari², Rahbar Ali³, Nooruddin P. M. Sathik⁴, Bhupendra S. Tomar⁵ and Mohammad Ismail Journal of the Physical Society of Japan 82 (2013) 114201. 10. Probing of complete and incomplete fusion dynamics in heavy ion collision D. Singh, Rahabar Ali, M. Afzal Ansari, B.S. Tomar, M. H. Rashid, S. K. Das, R. Kumar, R.P. Singh, S. Muralithar, R. K. Bhowmik Pramana Journal of Physics, 82 (2014) 683. 11. Observation of a breakup-induced alpha-transfer process for some bound states of ^{16}O populated by the $^{12}\text{C}(^6\text{Li},d)^{16}\text{O}^{\text{ast}}$ reaction S. Adhikari, C. Basu, I. J. Thompson, P. Sugathan, A. Jhingan, K. S. Golda, A. Babu, D. Singh, S. Ray, and A. K. Mitra Physical Review C, 89 (2014) 044618. 12. Optical and impedance studies of pure and Ba-doped ZnS quantum dots Arfat Firdous, M. Aslam Baba, D. Singh, Abdul Hamid Bha Applied Nanoscience DOI 10.1007/s13204-014-0306-5. 13. Probing of complete and incomplete fusion dynamics in heavy ion collision D. Singh, Rahabar Ali, M. Afzal Ansari, B.S. Tomar, M. H. Rashid, S. K. Das, R. Kumar, R.P. Singh, S. Muralithar, R. K. Bhowmik Pramana Journal of Physics, 82 (2014) 683. 14. Effect of the Target Deformation on Incomplete Fusion Dynamics D. Singh, Rahbar Ali, M. Afzal Ansari, R. Kumar, R. P. Singh, S. Muralithar and R. K. Bhowmik EPJ Web of Conferences, Accepted for publication (2014).
Dr. Abhijit Ghosh	1. A. Ghosh, and R. N. P. Choudhary, (2010), Optical emission and absorption for Zn-ZnO core-shell nanostructures, Journal of Experimental Nanoscience

	<p>Vol.5, No.2, pp. 134-142.</p> <ol style="list-style-type: none"> 2. A. Ghosh, and R. N. P. Choudhary, (2010), Growth and microstructure for visible emission and surface optical phonon of Zn-ZnO nanostructure, Philosophical Magazine, Vol.90, No.6, pp.731-751. 3. N. Kumar, A. Ghosh, and R. N. P. Choudhary, (2011), Electrical behavior of $Pb(Zr_{0.52}Ti_{0.48})_{0.5}(Fe_{0.5}Nb_{0.5})_{0.5}O_3$ ceramics, Materials Chemistry and Physics, Vol.130, No.1-2, pp. 392-397. 4. P. Kundu, A. Ghosh, S. Das, and T. K. Bhattacharyya, (2012), Compatibility study of thin passivation layers with hydrazine for silicon based MEMS microthruster, Journal of Physics D: Applied Physics, Vol.45 No.9, pp.095302 (1-9). 5. A. Ghosh, N. Karak and T K Kundu, (2013), Effect of Co Doping on Optical Behaviors in ZnO Nanorods, AIP Conference Proceedings, Vol.1536, pp.177-178.
<p>Dr. Ashish Kumar Mishra</p>	<ol style="list-style-type: none"> 1. Comparative study of dispersion characteristics of uniaxial crystalline optical fiber under the extreme cases of helix pitch angles” A.K. Mishra, M. Kumar, D. Kumar, & O.N. Singh II, Journal of Modern Optics, 60, 1240-1246, 2013. 2. Modal study of plasma cladded cylindrical optical fiber” A.K. Mishra, M. Kumar, D. Kumar, & O.N. Singh II, JEMWA, 27, 868-876, 2013. 3. An analytical study of the modal dispersion characteristics of helically clad crystal- cored optical fiber” A.K. Mishra, P.C. Pandey, D. Kumar & O.N. Singh II, OPTIK- IJLEO, (Germany), 124, 2661-2666, 2012. 4. Effect of helix pitch angle on the modal dispersion characteristics of step-index optical fiber” A.K. Mishra, D. Kumar & O.N. Singh II, JEMAA (USA), 04, 275-278, 2012.
<p>Prof. N. Nayak</p>	<ol style="list-style-type: none"> 1. Atomic entanglement mediated by various non-classical cavity fields, P. Saha, A. S. Majumdar and N. Nayak, AIP Conf. Proc. 1384, 183-189 (2011). 2. Atomic entanglement in the multiphoton Jaynes-Cummings model, P. Saha, B. Ghosh, A. S. Majumdar and N. Nayak, Int. J. Theo. Phys. 15, 97-113 (2011). 3. Collapse and revival of atomic entanglement in an intensity-dependent Jaynes-Cummings interaction, P. Saha, A.S. Majumdar, S. Singh and N. Nayak, Int. J. Quant. Information, 8, 1397-1409 (2010). 4. Study of atomic entanglement in the multimode cavity optics, P. Saha, N. Nayak, and A. S. Majumdar, Int. J. Theo. Phys. 14, 97-110 (2010). 5. Teleportation via maximally and non-maximally entangled mixed States, S. Adhikary, A. S. Majumdar, P. Roy, B. Ghosh and N. Nayak, Quantum Information and Computing, 10, 398-419 (2010). 6. Nonlinear refractive index theory (II): numerical studies

	<p>S. S. Hassan, R. K. Bullough, M. N. Ibrahim, R. Saunders, T. Jarad, and N. Nayak, Int. J.Theo. Phys. 13, 355-364 (2010). 7. Environment induced entanglement in cavity QED, N. Nayak, B. Ghosh and A. S. Majumdar, Indian J. Phys. 84, 1039-1050 (2010). 8. Squeezing of atomic states, N. Nayak, B. Dutta-Roy, R. N. Deb and Niharika Singh,Asian J. Phys, 20, 153-164 (2012).</p>
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23. Details of patents and income generated: 02

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Prof. S. Medhekar	(i) Optical beam extraction (ii) Automatic Gear System	Nil	Nil	To be intimate later

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad:

- (1) Prof. N. Nayak as Visiting Professor to S. N. Bose National Centre, Kolkata
- (2) Dr. Dharmendra Singh as a Research Collaborator to Inter University Accelerator Centre, New Delhi.
- (3) Dr. Dharmendra Singh as a Research Collaborator to Variable Energy Cyclotron, Kolkata.
- (4) Dr. Dharmendra Singh as a Research Collaborator to Tata Institute of Fundamental Research (TIFR), Mumbai.

26. Faculty serving in:

- (a) National Committees: Nil
- (b) International Committees: Nil
- (c) Editorial Boards: Nil
- (d) Any Other Please Specify: Nil

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others):

(1) Dr. Dharmendra Singh participated successfully Orientation Course at UGC, ASC, University of Rajasthan, Jaipur

(2) Dr. Vineet Kumar Agoyiya participated successfully Orientation Course at UGC, ASC, Jawahar Lal Nehru University, New Delhi

(3) Dr. Avijit Ghosh participated successfully Orientation Course at UGC, ASC, Jadavpur University, Kolkata

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: Nil

(b) percentage of students doing projects in collaboration with other universities / industry / institute: Nil

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil

31. Code of ethics for research followed by the Centre: We maintain a very high standard of research.

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
(i) Five Year Integrated M.Sc.	2010	10	04	Persuing	Persuing
	2011	19	03	Persuing	Persuing
	2012	16	10	Persuing	Persuing
	2013	30	07	Persuing	Persuing
	2014	21	03	Persuing	Persuing
(ii) Ph.D.	2013 (06)	01	01	Persuing	Persuing
	2014 (11)	03	01	Persuing	Persuing

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
Five Year Integrated M.Sc.	Nil	75	25	Nil
Ph.D.	Nil	50	50	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): None

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	100
PG to M.Phil/Ph.D	Nil
Ph.D to Post Doctoral	Nil
Employed through campus selection	Nil
Employed through other than campus recruitment	Nil
Self-employed /entrepreneurs	01

25. Diversity of staff:

Percentage of staff from the State	10%
Percentage of staff from other States	90%
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	10%
Percentage of staff who are graduates from universities from other states	90%
Percentage of staff who are graduates from other universities outside the country	Nil

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: 02

38. Present details about infrastructural facilities:

Library	Nil
Internet facility for staff & students	Nil
Total number of class rooms	05
Class rooms with ICT facility	01
Student's laboratories	03
Research Laboratories	01
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates: Nil

(a) From the host institution/university:

(b) **From other institutions/universities:**

Sl. No.	Name of Students	Area of Research	University last attended
1.			
2.			
3.			

40. Number of students of the centre getting financial assistance from the university (2-5 per year): Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: Nil

42. Does the centre obtain feedback from: Yes

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? The report is utilized for improving curriculum as well as teaching method

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same? Nil

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? Nil

43. List the distinguished alumni of the centre (maximum 10): Nil

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: Nil

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are: Nil

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored? Three sessional examination followed by end term examination.

47. Highlight the participation of students and faculty in extension activities: Centre does not have extension activities

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

M.Sc. integrated students attended summer internship programmes and national science congress at Various Research Institutes

Year	Total No. of students
2013	03
2014	15
2015	15

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: Not Applicable

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. As per the curriculum students are taught in basics as well as applied subjects in physics

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths: A valance curriculum comparable to any curriculum of any institute of India.

(B) Weaknesses: The Centre is short of faculties and supportive staff.

(C) Opportunities: The Centre offers research opportunities in various areas of research.

(D) Challenges: To trained the future scientists.

52. Future plans of the centre: To include new programmes such as M.Tech in Applied Physics and M.Phil in Physics.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Prof. S. Medhekar	<ol style="list-style-type: none">1. “Mutual-focusing of two co-propagating beams and formation of trapped spatial breather pair in saturable nonlinear media” Ram Krishna Sarkar and S. Medhekar, <i>OPTIK</i> 121 (2010) p-339–346.2. Switching Behaviour of a Nonlinear Mach-Zehnder Interferometer, Arpita Srivastava, Punya Prasanna Paltani and S. Medhekar, <i>Pramana</i>, Vol.74 Number 4 (2010) p. 575-590.3. “Optimally Stabilized Beam Pairs”, PunyaPrasannaPaltani and S. Medhekar, <i>OPTIK</i>, vol. 122, issue 1, pp. 70-75(2011).4. All-optical Circulator Based on Cross Phase Modulation in a Nonlinear Mach-Zehnder Interferometer, PunyaPrasannaPaltani and S. Medhekar, <i>OPTIK</i>, Volume 122, Issue 5, March 2011, Pages 464-466.5. Switching of One Beam by Another in a Kerr Type Nonlinear Mach-Zehnder Interferometer, Arpita Srivastava and S. Medhekar, <i>Optics & Laser Technology</i>, vol. 43, issue 1, pp. 29-35(2011).6. Coupled tapered / uptapered optical beams” Arpita Srivastava, Ram Krishna Sarkar, Shraddha Prasad and S. Medhekar, <i>OPTIK</i>, 122 (2011) 2039– 20437. Switching Behaviour of a Nonlinear Mach-Zehnder Interferometer; Saturating Nonlinearity” authored by Arpita Srivastava and S. Medhekar <i>Optics & Laser Technology</i> 43 (2011) 1208–12118. Coupled Propagation in Electromagnetically Induced Transparent Medium; Thirring Type Soliton Pairs and Breather Pairs” Authored by Shraddha Prasad, Ram Krishna Sarkar, Arpita Srivastava and S. Medhekar , <i>Journal of Electromagnetic Waves and Application, J. of Electromagn. Waves and Appl.</i>, Vol. 25, 923–933, 2011.9. Investigations on the combustion parameters of a dual fuel diesel engine with hydrogen and LPG as secondary fuels by D. B. Lata, A. Mishra and S.

	<p>Medhekar, International Journal of Hydrogen Energy Vol. 36, 13808–13819, 2011</p> <ol style="list-style-type: none"> 10. Signal amplification based on the local nonlinear Mach–Zehnder interferometer by Arpita Srivastava, Man Mohan Gupta, S. Medhekar, Optics & Laser Technology, Vol. 44, 492–496, 2011 11. Switching behavior of a nonlinear Mach–Zehnder interferometer: Saturating nonlinearity, Arpita Srivastava, S. Medhekar, Optics & Laser Technology, Vol. 43, Pages 1208 to 1211, 2011. 12. Effect of hydrogen and LPG addition on the efficiency and emissions of a dual fuel diesel engine, D. B. Lata, A. Mishra and S. Medhekar, International Journal of Hydrogen Energy Vol. 37, Pages 6084–6096, 2012 13. Switching Behavior of a Nonlinear Mach-Zehnder Interferometer with Exponentially Saturable Nonlinearity, Arpita Srivastava and S. Medhekar, Optical Engineering, Vol. 51, Pages 074604-1 to 074604-4, 2012. 14. Effect of change in core width and core refractive index on the switching behavior of a nonlinear Mach–Zehnder interferometer, Arpita Srivastava, Sarang Medhekar, Optical Engineering 51(9), 094601 (September 2012) 15. Coupled tapering/uptapering of soliton pairs in nonlinear media, Shraddha Prasad, Ram Krishna Sarkar and Sarang Medhekar, Optik - Int. J. Light, Electron Opt., 124 (2013) 6661– 6665, http://dx.doi.org/10.1016/j.ijleo.2013.05.108 16. Study of nonlinear optical properties of organic dye by Z-scan technique using He–Ne laser, R. K. Choubey S. Medhekar, R. Kumar S. Mukherjee Sunil Kumar, J Mater Sci: Mater Electron, DOI 10.1007/s10854-014-1743-3. 17. Switching Behavior of Nonlinear Mach-Zehnder Interferometer Based on Photonic Crystal Geometry, Man Mohan Gupta and S Medhekar, Pramana – J. Phys., Vol. 82, No. 6, June 2014, pp. 1061–1074 18. A versatile optical junction using photonic band-gap guidance and self-collimation, Man Mohan Gupta and Sarang Medhekar, Applied Physics Letters 105, 131104 (2014)
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	<p>53-55(2012)</p> <p>2. Physics of Interface: Correlated barrier with deterministic disorder sandwiched between two metallic plane. Sanjay Gupta and Tribikram Gupta, Solid State Communications, 152, 878-882(2012)</p>
Dr. Vineet Kumar Agotiya	<p>1. Charmonium suppression in the presence of dissipative forces in a strongly coupled quark-gluon plasma, B. K. Patra, <u>Vineet Agotiya</u>, and V. Chandra, European Physical Journal C 67, 465, 2010.</p> <p>2. χ_c and χ_{cb} states in hot quark gluon plasma, B. K. Patra, Lata Devi, Uttam Kakade, <u>Vineet Agotiya</u> and V. Chandra, Journal of Modern Physics, 2012, 3, 483-491.</p> <p>3. J/ψ suppression in the presence of dissipative forces in a sQGP, <u>Vineet Agotiya</u> and B. K. Patra, Nucl. Phys. A 862-863 (2011) 293-296.</p> <p>4. Strongly-interacting QGP and quarkonium suppression at RHIC and LHC energies, <u>Vineet Agotiya</u>, Lata Devi, Uttam Kakade and B. K. Patra, International J. of Mod. Phys. A Vol.27, no.2 (2012) 1250009.</p>
Dr. Dharmendra Singh	<p>1. Incomplete fusion dynamics by spin distribution Measurements D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, P. P. Singh, M. K. Sharma, B. P. Singh, R. K. Sinha³, Rakesh Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik Physical Review C, 81 (2010) 027602.</p> <p>2. Investigation of incomplete fusion in $^{20}\text{Ne} + ^{55}\text{Mn}$ reactions at 3-8 MeV/nucleon. R. Ali, D. Singh, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Journal of Physics G: Nucl. & Part. Phys. 37 (2010) 115101.</p> <p>3. Reaction mechanism in $^{20}\text{Ne} + ^{59}\text{Co}$ System at 3-7 MeV/nucleon and observation of entrance channel mass-asymmetry on incomplete fusion fraction. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Physical Review C 83, (2011) 054604.</p> <p>4. Measurement and analysis of excitation functions and observation of mass-asymmetry effect on incomplete fusion dynamics. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid and R. Guin EPJ Web of Conferences 17, (2011) 101</p> <p>5. Observation of mass-asymmetry effect on incomplete fusion for $^{20}\text{Ne} + ^{165}\text{Ho}$ system. D. Singh, R. Ali, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das. Nuclear Physics A, 879 (2012) 107.</p> <p>6. Shears mechanism in ^{109}In. D. Negi, T. Trivedi, A. Dhal, S. Kumar, V. Kumar, S. Roy, M. K. Raju, S. Appannababu, G. Mohanto, J. Kaur, R. K. Sinha, D. Choudhury, D. Singh, R. Kumar, R. P. Singh, S. Muralithar, A. K. Bhati, S. C. Pancholi and R. K.</p>

	<p>Bhowmik Physical Review C, 85 (2012) 057301.</p> <p>7. Evidence of Quasifission in asymmetric reactions forming the ^{250}Cf compound system C.Yadav, R. G. Thomas, R. K. Choudhury, P. Sugathan, A. Jhingan, S. Appannababu, K. S. Golda, D. Singh, Ish Mukul, J. Gehlot, E. Prasad, H. J. Wollersheim Physical Review C, 85(2012) 057301.</p> <p>8. Electrical and optical studies of pure and Ni-doped CDS quantum dots Arfat Firdous, D.Singh and M.M. Ahmad Applied Nanoscience DOI 10.1007/s 13204-012-0065-0.</p> <p>9. Reaction Mechanism in ^{16}O Ion Interaction with Light Nuclei ^{45}Sc, ^{74}Ge and Mass- Asymmetry Effect on Incomplete Fusion Dynamics Dharmendra Singh^{1*}, Mohammad Afzal Ansari², Rahbar Ali³, Nooruddin P. M. Sathik⁴, Bhupendra S. Tomar⁵ and Mohammad Ismail Journal of the Physical Society of Japan 82 (2013) 114201.</p> <p>10. Probing of complete and incomplete fusion dynamics in heavy ion collision D.Singh, Rahabar Ali, M. Afzal Ansari, B.S. Tomar, M. H. Rashid , S. K. Das, R. Kumar, R.P. Singh, S. Muralither, R. K. Bhowmik Pramana Journal of Physics, 82 (2014) 683.</p> <p>11. Observation of a breakup-induced α-transfer process for some bound states of ^{16}O populated by the $^{12}\text{C}(^6\text{Li,d})^{16}\text{O}^{\text{last}}$ reaction S. Adhikari, C. Basu, I. J. Thompson, P. Sugathan, A. Jhingan, K. S. Golda, A. Babu, D. Singh, S. Ray, and A. K. Mitra Physical Review C, 89 (2014) 044618.</p> <p>12. Optical and impedance studies of pure and Ba-doped ZnS quantum dots Arfat Firdous, M. Aslam Baba, D. Singh, Abdul Hamid Bha Applied Nanoscience DOI 10.1007/s13204-014-0306-5.</p> <p>13. Probing of complete and incomplete fusion dynamics in heavy ion collision D.Singh, Rahabar Ali, M. Afzal Ansari, B.S. Tomar, M. H. Rashid , S. K. Das, R. Kumar, R.P. Singh, S. Muralither, R. K. Bhowmik Pramana Journal of Physics, 82 (2014) 683.</p> <p>14 . Effect of the Target Deformation on Incomplete Fusion Dynamics D. Singh, Rahbar Ali, M. Afzal Ansari, R. Kumar, R. P. Singh, S. Muralither and R. K. Bhowmik EPJ Web of Conferences, Accepted for publication (2014).</p>
<p>Dr. Abhijit Ghosh</p>	<p>1. A. Ghosh, and R. N. P. Choudhary, (2010), Optical emission and absorption for Zn-ZnO core-shell nanostructures, Journal of Experimental Nanoscience Vol.5, No.2, pp. 134-142.</p> <p>2. A. Ghosh, and R. N. P. Choudhary, (2010), Growth and microstructure for visible emission and surface optical phonon of Zn-ZnO nanostructure, Philosophical Magazine, Vol.90, No.6, pp.731-751.</p> <p>3. N. Kumar, A. Ghosh, and R. N. P. Choudhary, (2011),</p>

	<p>Electrical behavior of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})_{0.5}(\text{Fe}_{0.5}\text{Nb}_{0.5})_{0.5}\text{O}_3$ ceramics, Materials Chemistry and Physics, Vol.130, No.1-2, pp. 392-397.</p> <p>4. P. Kundu, A. Ghosh, S. Das, and T. K. Bhattacharyya, (2012), Compatibility study of thin passivation layers with hydrazine for silicon based MEMS microthruster, Journal of Physics D: Applied Physics, Vol.45 No.9, pp.095302 (1-9).</p>
Dr. Ashish Kumar Mishra	<p>1. Comparative study of dispersion characteristics of uniaxial crystalline optical fiber under the extreme cases of helix pitch angles” A.K. Mishra, M. Kumar, D. Kumar, & O.N. Singh II, Journal of Modern Optics, 60, 1240-1246, 2013.</p> <p>2. Modal study of plasma cladded cylindrical optical fiber” A.K. Mishra, M. Kumar, D. Kumar, & O.N. Singh II, JEMWA, 27, 868-876, 2013.</p> <p>3. An analytical study of the modal dispersion characteristics of helically clad crystal- cored optical fiber” A.K. Mishra, P.C. Pandey, D. Kumar & O.N. Singh II, OPTIK- IJLEO, (Germany), 124, 2661-2666, 2012.</p> <p>4. Effect of helix pitch angle on the modal dispersion characteristics of step-index optical fiber” A.K. Mishra, D. Kumar & O.N. Singh II, JEMAA (USA), 04, 275-278, 2012.</p>
Prof. N. Nayak	<p>1. Atomic entanglement mediated by various non-classical cavity fields, P. Saha, A. S. Majumdar and N. Nayak, AIP Conf. Proc. 1384, 183-189 (2011).</p> <p>2. Atomic entanglement in the multiphoton Jaynes-Cummings model, P. Saha, B. Ghosh, A. S. Majumdar and N. Nayak, Int. J. Theo. Phys. 15, 97-113 (2011).</p> <p>3. Collapse and revival of atomic entanglement in an intensity-dependent Jaynes-Cummings interaction, P. Saha, A.S. Majumdar, S. Singh and N. Nayak, Int. J. Quant. Information, 8, 1397-1409 (2010).</p> <p>4. Study of atomic entanglement in the multimode cavity optics, P. Saha, N. Nayak, and A. S. Majumdar, Int. J. Theo. Phys. 14, 97-110 (2010).</p> <p>5. Teleportation via maximally and non-maximally entangled mixed States, S. Adhikary, A. S. Majumdar, P. Roy, B. Ghosh and N. Nayak, Quantum Information and Computing, 10, 398-419 (2010).</p> <p>6. Nonlinear refractive index theory (II): numerical studies S. S. Hassan, R. K. Bullough, M. N. Ibrahim, R. Saunders, T. Jarad, and N. Nayak, Int. J.Theo. Phys. 13, 355-364 (2010).</p> <p>7. Environment induced entanglement in cavity QED, N. Nayak, B. Ghosh and A. S. Majumdar, Indian J. Phys. 84, 1039-1050 (2010).</p> <p>8. Squeezing of atomic states, N. Nayak, B. Dutta-Roy, R. N. Deb and Niharika Singh, Asian J. Phys, 20, 153-164 (2012).</p>

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(B) Papers presented in National/International Conferences/Seminars/etc.

Dr. Dharmendra Singh	<ol style="list-style-type: none"> 1. <i>Observation of pre-equilibrium particle emission in $^{16}\text{O} + ^{124}\text{Sn}$ system by measurement of yield ratio</i> D. Singh, R. Ali, M. Afzal Ansari, K. Surendra Babu, Pushpendra P. Singh, Manoj K. Sharma, B. P. Singh, R. K. Sinha, R. Kumar, S. Muralithar, R. P. Singh and R. K. Bhowmik DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)344. 2. <i>Fusion Incompleteness in ^{16}O induced reactions with ^{175}Lu between 70-100 MeV energy.</i> Naseef M. P. N., H. Kumar, R. Ali, M. Afzal Ansari, D. Singh, K. S. Golda, S. Muralithar, J. J. Das, R. P. Singh and R. K. Bhowmik DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)346. 3. <i>Investigation of incomplete fusion dynamics in $^{16}\text{O} + ^{175}\text{Lu}$ system from the measurement of recoil range distributions.</i> H. Kumar, Naseef M. P. N., R. Ali, M. Afzal Ansari, D. Singh, K. S. Golda, S. Muralithar, Rakesh Kumar, J. J. Das, R. P. Singh, and R. K. Bhowmik DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)348. 4. <i>Side-feeding intensity measurement for $^{16}\text{O} + ^{160}\text{Gd}$ system at 90 MeV energy.</i> Rahbar Ali, D. Singh, M. Afzal Ansari, Naseef M. P. N, H. Kumar, Rakesh Kumar, M. K. Sharma, Unnati, B. P. Singh, D. Negi, P.D. Shidling, S. Muralithar, R. P. Singh, R. Prasad and R. K. Bhowmik DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)258. 5. <i>High spin structures in ^{109}In.</i> D. Negi, T. Trivedi, A. Dhal, S. Roy, V. Kumar, S. Kumar, M. K. Raja, S. Appannababu, G. Mohanto, J. Kaur, R. K. Sinha, D. Chaudhury, D. Singh, R. Kumar, R. P. Singh, S. Muralithar, A. K. Bhati, S. C. Pancholi, R. K.
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	<p>Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)48.</p> <p>6. Incomplete fusion in $^{12}\text{C} + ^{159}\text{Tb}$ interactions at energies $\approx 4-7 \text{ MeV/A}$.</p> <p>Abhishek Yadav, Vijay R. Sharma, Pushpendra P. Singh, Manoj K. Sharma, Devendra P. Singh, Unnati, Varinderjit Singh, D. Singh, R. Kumar, B. P. Singh, R. Prasad, R. K. Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Birala Institute of Pilani, Rajsthan, India, Vol. 55(2010)332.</p> <p>7. Investigation of incomplete fusion dynamics in $^{16}\text{O} + ^{74}\text{Ge}$ interactions at energies $\square\square\square\square\square\square\text{eV/ A}$.</p> <p>D. Singh, M. Afzal Ansari, R. Ali, N. P. M. Sathik and M. Ismail DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 492.</p> <p>8. Forward Recoil Range Distribution (RRD) Measurement: $^{16}\text{O} + ^{156}\text{Gd}$ System at Energies, $E\sim 72, 82$ and 93 MeV.</p> <p>Rahbar Ali, D. Singh, Harish Kumar, M. Afzal Ansari, K. S. Golda, S. Muralithar, Rakesh Kumar, P. Sugathan, R. P. Singh and R. K. Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 546.</p> <p>9. Search for quasifission in $^{12}\text{C} + ^{238}\text{U}$ and $^{18}\text{O} + ^{232}\text{Th}$ reactions at near and sub-barrier energies.</p> <p>C. Yadav, R.G. Thomas, R.K. Choudhury, P. Sugathan, A. Jhingan, K.S. Golda, S. Appannababu, E. Prasad, D. Singh, Ish Mukul, J. Gehlot, H.J. Wollershiem</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 584.</p> <p>10. Onset of quasifission in $^{30}\text{Si} + ^{180}\text{Hf}$ reaction.</p> <p>E. Prasad, * R. G. Thomas, P. Sugathan, A. Jhingan, S. Appannababu, K. M. Varier, A. M. Vinodkumar, B. R. S. Babu, G. Mohanto, Ish Mukul, C. Yadav, D. Singh, K. S. Golda, B. P. Ajith Kumar, N. Madhavan, and S. Kailas</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 584.</p>
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	<p>11. Effects of shell closure of target on neutron multiplicity for the $^{28}\text{Si}+^{204,206,208}\text{Pb}$</p> <p>Savi Goyal, S.Mandal, Ritika Garg, Mansi Saxena, Akhil Jhingan, P.Sugathan, K.S.Golda, S. Appannababu, D.Singh, Suresh Kumar, S.Verma, Maninder kaur, Varinderjit Singh, Davinder Siwal, Sunil Kalkal, B.R.Behera, Mohini Gupta, Subinit Roy, R.Singh</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 588.</p> <p>12. The ANC of the subthreshold $2+$ (6.92 MeV) and $1-$(7.12 MeV) states of ^{16}O using $^{12}\text{C}(6\text{Li},d)^{16}\text{O}$ transfer reaction at 20 MeV.</p> <p><i>S Adhikari, C Basu, P Sugathan, A Jhingan, K S Golda, A Babu, D Singh, S Ray, A K Jain, A K Mitra</i></p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 598.</p> <p>13. Role of Particle-Hole Symmetry in Mirror Energy Difference</p> <p>V. Kumar, S. Kumar¹, Z. Hasan, D. Kumar, B.S. Koranga, Rohitash, D. Singh, D. Negi, and L. Angus</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Andhra University, Vishakapatnam, Vol. 56(2011) 252.</p> <p>14. Investigation of complete and incomplete fusion dynamics of ^{16}O and ^{20}Ne induced reactions at energies above the Coulomb barrier</p> <p>D. Singh, R. Ali, M. Afzal Ansari, B. S. Tomar, M. H. Rashid, R. Guin, R. Kumar, R. P. Singh, S. Muralithar and R. K. Bhowmik</p> <p>Frontier in Gamma Spectroscopy – FIG12 at Inter University Accelerator Centre, New Delhi, India during March 5 to 7, 2012, Abstract Book, Page No. 51</p> <p>15. Investigation of complete and incomplete fusion dynamics of ^{16}O and ^{20}Ne induced reactions at energies above the Coulomb barrier</p> <p>R. Ali, D. Singh, M. Afzal Ansari, R. Kumar, S. Muralithar, K. S. Golda, R. P. Singh, M. H. Rashid, R. Guin, S. K. Das and R. K. Bhowmik</p> <p>Frontier in Gamma Spectroscopy – FIG12 at Inter University Accelerator Centre, New Delhi, India during March 5 to 7,</p>
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	<p>2012, Abstract Book, Page No. 58</p> <p>16. Study of incomplete fusion dynamics by using particle gamma coincidence technique for the system $^{19}\text{F} + ^{154}\text{Sm}$.</p> <p>D. Singh, Harish Kumar, Rahbar Ali, R. Tripathi, N. P. M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralither, Indu Bala, R. P. Singh and R. K. Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Delhi University of Delhi Vol. 57(2012) 418.</p> <p>17. Influence of Mass-Asymmetry on Incomplete Fusion.</p> <p>Rahbar Ali, D. Singh, M. Afzal Ansari, Harish Kumar, M. H. Rashid, K. S. Golda, S. Muralither, R. P. Singh, R. Guin, S. K. Das and R. K. Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Delhi University of Delhi Vol. 57(2012) 434.</p> <p>18. Study of entrance channel mass-asymmetry effect on incomplete fusion of ^{16}O with ^{175}Lu at $E < 10$ MeV/nucleon.</p> <p>Harish Kumar, Rahbar Ali, D. Singh, Naseef M. P. N., M. Afzal Ansari, K. S. Golda, S. Muralither, Rakesh Kumar, J. J. Das, R. P. Singh and R. K. Bhowmik</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Delhi University of Delhi Vol. 57(2012) 390.</p> <p>19. Search for tetrahedral symmetry in ^{158}Dy.</p> <p>Indu Bala, R. P. Singh, S. Muralither, A. Dhal, D. Negi, D. Singh, M. K. Raju, S. Saha, J. Sethi, T. Trivedi, R. Palit</p> <p>DAE-BRNS Symposium on Nuclear Physics, Department of Nuclear Physics, Delhi University of Delhi Vol. 57(2012) 282.</p> <p>20. Probing the Incomplete Fusion Dynamics at Energy $\sim 3-8$ MeV/A</p> <p>Rahbar Ali, D. Singh, M. Afzal Ansari, Harish Kumar, M. Asif Khan, R. Kumar, S. Muralithar, K. S. Golda, R. P. Singh, M. H. Rashid, R. Guin, S. K. Das and , R. K. Bhowmik</p> <p>National Workshop on Radiation at Central University of Jharkhand, Ranchi during February 13-15, 2013, Abstract Book, Page No.11</p> <p>21. Incomplete fusion dynamics in $^{16}\text{O} + ^{154}\text{Sm}$ system by using particle gamma coincidence technique.</p> <p>D. Singh, Harish Kumar, Rahbar Ali, R. Tripathi, N.P.M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar, Indu Bala, R. P. Singh and R. K. Bhowmik</p>
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	<p>DAE-BRNS International Symposium on Nuclear Physics, BARC, Mumbai, India, Vol. 58 (2013) 354</p> <p>22. Incomplete fusion dynamics in $^{19}\text{F} + ^{154}\text{Sm}$ system@110MeV.</p> <p>D. Singh, Rahbar Ali, Harish Kumar, R. Tripathi, N.P.M. Sathik, M. Afzal Ansari, R. Kumar⁶, S. Muralithar, Indu Bala⁶, R. P. Singh and R. K. Bhowmik</p> <p>DAE-BRNS International Symposium on Nuclear Physics, BARC, Mumbai, India, Vol. 58 (2013) 356</p> <p>23. Excitation function measurement in ^{20}Ne induced reactions on ^{27}Al.</p> <p>Harish Kumar*, D. Singh, Rahbar Ali, M. H. Rashid, M. Afzal Ansari**</p> <p>DAE-BRNS International Symposium on Nuclear Physics, BARC, Mumbai, India, Vol. 58 (2013) 470</p> <p>24. Effect of relative velocity on Incomplete Fusion Dynamics.</p> <p>Rahbar Ali*, D. Singh, M. Afzal Ansari, Harish Kumar, Rakesh Kumar, K. S. Golda, S. Muralithar, R. P. Singh, P. Sugathan, M. H. Rashid, R. Guin, S. K. Das and R. K. Bhowmik, DAE-BRNS International Symposium on Nuclear Physics, BARC, Mumbai, India, Vol. 58 (2013) 530</p> <p>25. High Spin Spectroscopy in ^{105}Cd.</p> <p>M. Kumar Raju¹, D. Negi, S. Muralithar, R. P. Singh, R. Kumar, Indu Bala, T. Trivedi, A. Dhal, K. Rani, R. Gurjar, D. Singh, J. Kaur, R. Palit, B. S. Naidu, S. Saha, J. Sethi, and R. Donthi, DAE-BRNS International Symposium on Nuclear Physics, BARC, Mumbai, India, Vol. 58 (2013) 70</p> <p>26 . Effect of the Target Deformation on Incomplete Fusion Dynamics D. Singh, Rahbar Ali, M. Afzal Ansari, R. Kumar, R. P. Singh, S. Muralithar and R. K. Bhowmik EPJ Web of Conferences, Accepted for publication (2014).</p>
Dr. Abhijit Ghosh	<p>1. A. Ghosh, N. Karak and T K Kundu, (2013), Effect of Co Doping on Optical Behaviors in ZnO Nanorods, AIP Conference Proceedings, Vol.1536, pp.177-178.</p>
Prof. N. Nayak	<p>1. Atomic entanglement mediated by various non-classical cavity fields, P. Saha, A. S. Majumdar and N. Nayak, AIP Conf. Proc. 1384, 183-189 (2011).</p>

(C) Books/Monographs/Edited Books: Nil

(D) Chapter(s) in Books: Nil

(E) Impact Factor – Range and Average

Range (~0.50 to ~5.0) and Average (~1.5)

(F) Citation Index – Range and Average: Range: 39.0-122.0

Average: 88.2

Year	No. of Citations
2014	122
2013	112
2012	92
2011	76
2010	39

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index: h-index =27 and i10-index=14

SJR: Nil

SNIP: Nil

CENTRE FOR APPLIED CHEMISTRY

1. **Name of the Centre :** Centre for Applied Chemistry
2. **Year of establishment:** 2010.
3. **Is the Department part of a school/Faculty of the University?** Yes.
School of Natural Sciences
4. **Names of Programmes/Courses offered:** Ph.D., 5-year Integrated Masters in Applied Chemistry,
5. **Interdisciplinary courses and Centres involved:**
Nanotechnology, Applied Physics, Applied Mathematics, Energy Engineering, Land Resource Management, Water Engineering, Environmental Studies, Life Sciences, B.Ed.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:** Nil
8. **Examination System:** Semester/ Choice Based Credit System
9. **Participation of the Centre in the courses offered by other Centres:**
Centre for Nanotechnology, Centre for Life Science, B.Ed.
10. **Number of teaching posts sanctioned and filled:**

	Sanctioned	Filled	Actual(Including CAS/MPS)
Professors	1	1+1	1+1
Associate Professors	2	1	1
Assistant Professors	4	4	4
Others		1(UGC-FRP)	1

11. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Prof. Arunabha Datta	Ph.D	Professor	Physical	35	Nil
Prof. Ratan Kumar Dey	Ph.D	Professor	Physical	15	06

Dr. Arun Kumar Padhy	Ph.D	Associate Professor	Organic	18	03
Dr. Biplab Kumar Kuila	Ph.D	Assistant Professor	Physical	07	02
Dr. Raj Bahadur Singh	Ph.D		Organic	05	01
Dr. Soumen Dey	Ph.D		Inorganic	07	01
Mr. Simon Watre Sangma	M.Sc		No specialization	02	Nil
Dr. Partho Ghosh	Ph.D	Assistant Professor(UGC-FRC)	Organic	06	Nil
Dr. Sunit Hazra	Ph.D	Assistant Professor (contract/temporary)	Organic	03	Nil
Dr. Satish Kumar Singh	Ph.D		Organic	03	Nil
Dr. Debjit Das	Ph.D		No Specialization	02	Nil
Dr. Sadhu Charan Mallick	Ph.D		Inorganic	02	Nil

12. List of Senior visiting fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty:

Integrated M.Sc: 40%, Ph.D: 5%

14. Programme-Wise Student Teacher Ratio: Integrated Program-10 : 1, Ph.D.-2:1

15. Number of academic support staff (technical) and administrative staff:

Laboratory Assistant: 01,

Laboratory Attendant: 01,

Administrative staff: Nil

16. Research Thrust areas as recognized by major funding agencies:

Heterocyclic Chemistry/ Biopolymers/Catalysis & Surface Chemistry/
Natural Product/ Organic Synthesis/ Polymers/ Organometallics/
Bioinorganic/Nanomaterials

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:**4(Four)**

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Prof. Ratan Kumar Dey	Removal of fluoride using new hybrid sorbents of polymer mixed metal oxides-development of fluoride removal kit for rural use.	13.70 lakh	3 years	Ongoing	UGC
Dr. Biplab Kumar Kuila	Block copolymer supramolecular assembly for ultrahigh density arrays of magnetic nanomaterials	23 lakh	3 years	Ongoing	DST
Dr. Biplab Kumar Kuila	DNA Block copolymers and their supramolecular assemblies for Nanofabrication and Biosensing applications	73 lakh	5 years	Ongoing	DST
Dr. Biplab Kumar Kuila	Block copolymer supramolecular assembly for high efficient photovoltaic devices	13 lakh	3 years	Ongoing	CSIR
Dr. Biplab Kumar Kuila	Self-assembly of block copolymer or their supramolecules for functional nanostructured materials” EUR 17,600/, Alexander von Humboldt Foundation, Germany	Euro 17,600.00	--		Humboldt Foundation, Germany
Dr. Soumen Dey	Environmentally clean Approach to Synthesize Porphyrinogen:	24.50 lakh	3 years	Ongoing	DST
Dr. Raj Bahadur Singh	Synthesis of the Biologically Active Illudalane class of Natural Products	24.53 lakh	3 years	Ongoing	DST

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 90

(b) percentage of students doing projects in collaboration with other universities / industry / institute: 10

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

- Ramanujan fellowship to Dr. Biplab Kumar Kuila
- Dr. D. S. Kothari fellowship to Dr. Raj Bahadur Singh
- U.G.C recharge faculty to Dr. Partho Ghosh
- Shastri Indo-Canada Faculty mobility program to Dr. Arun Kumar Padhy
- INSA Summer Fellowship to M.Sc. Student Mr. Sambedan Jena
- Best poster award to Ms. Kaushar Hayat Waris at the Annual Conference of Indian Council of Chemists

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil**31. Code of ethics for research followed by the Centre:**

Scientific Ethics is being followed in letter and spirit

Strict avoidance of plagiasim and faithful documentation of research sources

32. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
5-Year integrated M.Sc	Over 2,000	50	53	98	100
Ph.D	150	03	05	100	100

33. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
5-Year integrated M.Sc	0	65	35	Nil
Ph.D.	0	50	50	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details)

JAM-06

35. Student progression:

Student progression	% against enrolled
UG to PG (year wise & course wise)	98
PG to M.Phil/Ph.D	N.A.
Ph.D to Post Doc	N.A.
Employed through campus recruitment	N.A.
Employed through other than campus recruitment	N.A.
Self-employed /entrepreneurs	N.A.

36. Diversity of staff:

Percentage of staff from the State	10
Percentage of staff from other States	90
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	Nil
Percentage of staff who are graduates from other universities within other states	90
Percentage of staff who are graduates from other universities from other countries	Nil

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details about infrastructural facilities:

Library	Adequate
Internet facility for staff & students	Fully wi-fi campus and LAN
Total number of class rooms	07
Class rooms with ICT facility	07
Student's laboratories	04
Research Laboratories	02
Others	N.A.

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) **From other institutions/universities:**

Sl. No.	Name of Students	Area of Research	University last attended
1.	Simpi Bhavana Patel	Physical Chemistry	BIT, Mesra
2.	Prajna Mishra	Biomaterial	Utkal University
3.	Pallavi Kumari	Polymer	Ranchi University
4.	Nadish Saba	Organic	BIT, Mesra
5.	S.Sambasivaya	Inorganic	SVUniversity, Tirupati

40. Number of students of the centre getting financial assistance from the university (2-5 per year): 5(Five)

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. N.A.

42. Does the centre obtain feedback from:

(A) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? Yes, In the academic and research progress

(B) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same? Yes,

Staff's are appraised of the feedback and discussed for appropriate measures as per requirements.

Feedbacks obtained from the students are incorporated in the curriculum development.

(C) Alumni and employers on the programmes and what is the response of the centre to the same?

Since the first batch of students is yet to graduate, hence alumni and employer's response shall be obtained at appropriate time.

43. List the distinguished alumni of the centre (maximum 10): NA

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) with external experts:

Weekly seminars are conducted where students, faculties and invited speakers deliver the talk. Some of the eminent speakers are

1. Prof. C.S.Panda, Retd. Professor, Berhampur University
2. Dr. A.K.Sarangi, G.M., UCIL, Jaduguda
3. Dr. Sudip Mallick, IACS, Kolkata

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

- Use of magnetic board and pen
- LCD
- Chart and model
- Field work

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Following steps have been taken to ensure the proper implementation of the program objectives and to monitor learning outcomes.

- a. By interacting with students
- b. By interacting with experts from academics and industries
- c. Continuous feedback from parents and other stake holders
- d. Periodic discussion with faculty members

47. Highlight the participation of students and faculty in extension activities:

Faculties and students are actively participated in UNNYAN Program meant for teaching under privileged students

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise)

Students undergo industrial visits, summer internship program

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: NA

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

By involving the undergraduate and post-graduate students in research projects, participation in conference

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre

Strength:

Qualified Teachers, Laboratory based teaching program, Healthy Student-Faculty interaction, Modern Industry-Research based Syllabus, Choice based Credit System and Transparent Examination and evaluation system

Weakness

Limited Infrastructure

Opportunity & Challenge

Motivated workforce, Placement

52. Future plans of the centre:

- To procure more instruments for teaching and research program
- To initiate collaborative research with academia and industries
- To attract companies for recruitment of our graduate students

ANNEXURE-1

LIST OF PUBLICATIONS

Dr. Arun Kumar Padhy

1. Photoinduced solid state keto-enol tautomerization of 2-(2-(3-nitrophenyl)-4, 5-diphenyl-1H-imidazol-1-yloxy)-1-phenylethanone

Arun Kumar Padhy, Ashok K Mishra, Monalisa Mohapatra, Avik Kumar Pati, Sasmita Mishra

RSC Adv., 4, 8044-8049, **2014**.

2. Synthesis of 2,3-bis-(2-benzothiazolyldisulfanyl)-1-propanol: An Assymmetric disulfide containing benzothiazolyl moiety.

S.P.Nanda, **A.K.Padhy**, & R.K.Dey

Asian J Chemistry, 23(1), 461, **2011**.

3. Synthesis of some benzothiazolyl and imidazole derivatives and evaluation of antibacterial activities.

S.P.Nanda, **A.K.Padhy**, & R.K.Dey

J Chem Pharm Res, 2(4), 785-792, **2010**.

4. Imidazole derivatives as the organic precursor of ZnO nano particle.

Arun K Padhy, B Chetia, S.Mishra, A.Pati & P.K.Iyer

Tetrahedron Letters, 51, 2751-53, **2010**.

Dr. Biplab K Kuila

- A Synergistic Coassembly of Block Copolymer and Fluorescent Probe in Thin Film for Fine-Tuning the Block Copolymer Morphology and Luminescence Property of the Probe Molecules” **Biplab K. Kuila***, Chanchal Chakraborty , and Sudip Malik, *Macromolecules*, 2013, 46 (2), pp 484–492
- Supramolecular assembly of poly(styrene)-b-poly(4-vinylpyridine) and Ferroceneacetic acid: An easy way to large scale controllable periodic arrays of iron oxide nanomaterials” **Biplab K. Kuila***, Mallikarjuna S. Rama, Manfred Stamm*, *Advanced Materials* , 2011, 23, 1797.
- Block copolymer- small molecule supramolecular assembly in thin film: a novel tool for surface patterning of different functional nanomaterials” **Biplab K Kuila** and Manfred Stamm , *Journal of Material Chemistry*, 2011, 21, 141271
- Supramolecular assembly of poly(styrene)-b-poly(4-vinylpyridine) and 1-pyrenebutyric acid in thin film and their use for nanofabrication” **Biplab K. Kuila***, E. Bhoje Gowd and Manfred Stamm *Macromolecules* 2010, 43, 7713.
- “Multilayer polymer thin film for fabrication of ordered multifunctional polymer nanocomposites” Biplab K Kuila*, Petr Formanek and Manfred Stamm*, *Nanoscale*, 2013, 5, 10849.
- “Transparent, versatile chemical vapour sensor using supramolecular assembly of block copolymer and carbon nanotube” **Kuila B. K***; Stamm, M. *Macromolecular Rapid Communications* 2010, 31, 1881.
- "Soluble P3HT- Grafted Carbon Nanotubes: Synthesis and Photovoltaic Application" **Kuila, B. K.** ; Dai, Liming; Park, Kyusoon *Macromolecules* 2010, 43, 6699.
- “Fabrication of oriented Polyaniline nanostructures using block copolymer nanotemplates and their optical, electrochemical and electric properties” **Kuila B. K***. Stamm, M. accepted in *Journal of Material Chemistry* 2010, 20, 6086.
- “Vertically oriented arrays of polyaniline nanorods and their super electrochemical properties” **Kuila, B. K***.; Nandan, B.; Böhme, M.; Janke, A. and Stamm, M*. *Chemical Communications* 2009, 5749.

Prof. R.K.Dey

- Fluoride removal performance of a new hybrid sorbent of Zr (IV)– ethylenediamine
SK Swain, S Mishra, T Patnaik, RK Patel, U Jha, RK Dey “
Chemical Engineering Journal 184, 72-81, 2012
- Kinetics, equilibrium and thermodynamic aspects of removal of“

fluoride from drinking water using meso-structured zirconium phosphate

SK Swain, T Patnaik, VK Singh, U Jha, RK Patel, RK Dey

Chemical engineering journal 171 (3), 1218-1226, 2011

- Development of new alginate entrapped Fe (III)–Zr (IV) binary mixed oxide for removal of fluoride from water bodies

SK Swain, T Patnaik, PC Patnaik, U Jha, RK Dey

Chemical Engineering Journal 215, 763-771, 2013

- Attachment of linear poly (amido amine) to silica surface and evaluation of metal-binding behavior

RK Dey, T Patnaik, VK Singh, SK Swain, C Airoidi

Applied Surface Science 255 (18), 8176-8182, 2009

- Development of a new inorganic– organic hybrid ion-exchanger of zirconium (IV)– propanolamine for efficient removal of fluoride from drinking water

SK Swain, S Mishra, P Sharma, T Patnaik, VK Singh, U Jha, RK Patel, ...

Industrial & Engineering Chemistry Research 49 (20), 9846-9856, 2010

CENTRE FOR LIFE SCIENCES

1. Name of the Department: Centre for Life Sciences
2. Year of establishment: 2010
3. Is the Department part of a School/Faculty of the university? Yes. School of Natural Sciences
4. Names of programmes offered: Ph.D., 5 year Integrated Masters in Life Sciences.
5. Interdisciplinary programmes and departments involved:
Interdisciplinary programmes - Biotechnology, Biophysics, Biochemistry, B.Ed., Nano-Biotechnology, Environmental Biology.
Departments involved –Applied Physics, Applied Chemistry, Applied Mathematics, Nano-Technology, Environmental Science.
6. Courses in collaboration with other universities, industries, foreign institutions, etc. Nil
7. Details of programmes discontinued, if any, with reasons: N.A.
8. Examination System: Semester/Choice Based Credit System
9. Participation of the department in the courses offered by other departments: Nanotechnology, Applied Physics, Applied Chemistry, Environmental Sciences, Land Resource Management
10. Number of teaching posts sanctioned, filled and actual:

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Associate Professor	2	0	0
Assistant Professor	4	4	4
Others	-	2 (UGC-FRP/ DST-INSPIRE)	2

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of experience	No. of Ph.D. students guided in last 4 years
Prof. A. N. Misra	Ph.D.	Professor	Mol. Plant Biol.	37 (Res.) 32 (Teach)	10
Dr. R.K.Mishra		Assistant Professor	Cancer Biology	9 (Res.) 4 (Teach)	2
Dr. P.K. Sharma			Neurobiology	9 (Res.) 4 (Teach)	3
Dr. A. Kumar			Biotechnology	5 (Res.) 4 (Teach)	2
Dr. H. Firdous			Developmental Biol.	4 (Teach)	1
Dr. A.K. Panda		DST-INSPIRE Fac.	Immuno-genetics	1 (Teach)	0
Dr. P. Sharma		UGC-FRP Asst. Prof.	Plant Stress Biology	5 (Res.)	0

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Resource person for teaching/research training:
 - a. Prof. Kazimierz Strzalka, Jagiellonian University, Krakow, Poland. 2014.
 - b. Prof. Reto Strasser, University of Geneva, Switzerland. 2011.
 - Overseas Researchers/ Visiting Scientists under DST-FICCI program:
 - a. Dr. Amal Ahmed, Egypt. 2013-14.
 - b. Dr Hamdino, Egypt. 2012-13.
12. Percentage of classes taken by temporary faculty – programme-wise information:
7% in Integrated program
13. Programme-wise Student Teacher Ratio: Integrated program 17.6:1/Ph.D. 2.8:1
14. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual 2 (technical), 1 Lab. Attendant.
15. Research thrust areas as recognized by major funding agencies: Biotechnology/ Molecular Biology/ Cancer Biology/ Neurobiology/ Biodiversity/ Cell Biology/ Microbiology/ Genetics/ Developmental Biology/ Molecular Plant Biology/ Stress Biology/ Signal Transduction.
16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding

agencies, project title and grants received project-wise.

4(Four)

Name of teacher	Title of project	Cost (in lakh Rupees)	Duration	Date of sanction & Current Status	Funding Agency
Prof AN Misra (PI)	“Nitric oxide signaling during chloroplast development”	9.62	3 yrs	2009-12 Complete	UGC
Prof AN Misra	“Photosynthetic adaptation of <i>Chromera velia</i> - a photosynthetic alga that is evolutionary closest to the group of heterotrophic Apicomplexan parasites”	Travel grant	2 mo	15/9/13-18/11/13 Complete	INSA-CAS visiting Fellow 2013
Prof AN Misra	“Developing biochemical and electrochemical biosensor(s) using chloroplast and enzymatic membranes”.	Travel grant	2yrs	1/4/12-31/3/14 Complete	DST – NAS Ukrain
Prof AN Misra (Supervisor)	Dr. Hamdino Ahmed, Egypt. “Nitric oxide signaling during seed germination and seedling growth”	0.6	1mo	15/4/12-15/5/12 Complete	FICCI-DST CV Raman Fellowship for African Researchers
Prof AN Misra (Supervisor)	Prof. Amal A. Mohamed, Egypt. “Cross talk between oxidative and abiotic stress in plants – deciphering the common pathways of regulation by Nitric Oxide”	1.65	2mo	01/2/14-30/3/14 Complete	
Prof AN Misra (Supervisor)	Dr. M. Misra “Conservation of medicinal and aromatic plants for the development of value added products in pharmaceutical and aromatic industry”	20.00 (apprx.)	5 yrs	2/4/11-1/4/16	UGC-PDF for Woman
Prof AN Misra (Supervisor)	Anisha Rupashree, Ph.D. student.		5 yrs	2013-2018	DST-INSPIRE Fellowship
Prof AN Misra (Supervisor)	Amit Gautam, Ph.D. student		5 yrs	2013-2018	
Prof AN Misra (Supervisor)	Eqlakh Ahmed Khan, Ph.D. student		5 yrs	2012-2017	UGC-Maulana Azad Fellowship
Prof AN Misra (Supervisor)	Kiran Kachhap, Ph.D. student		5 yrs	2013-2018	UGC-Rajiv Gandhi Fellowship for Ph.D.

Dr. Mishra	R.	Evaluation of therapeutic potential of glycogen synthase kinase 3 in chewing tobacco mediated oral cancer”	42.91	2 Yrs	13/6/13	DBT, Govt. of India
Dr. Panda	AK	Role of Toll Like Receptors and Identification of Novel Disease activity Markers in systemic lupus erythematosus	35.00	5 Yrs	31/3/14	DST, Govt. of India
Dr. Sharma	P.	Start Up Grant- UGC Faculty Recharge Programme.	6.00	5 Yrs	10/10/14	UGC

17. Inter-institutional collaborative projects and associated grants received

a) National collaboration: ONE b) International collaboration: TWO

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. DBT-BUILDER Program, Rs.441 lakh only.

20. Research facility / centre with

- state recognition
- national recognition Yes. DBT/ UGC/ DST
- international recognition Yes. DST International Division/ FICCI/BAS/CAS

21. Special research laboratories sponsored by / created by industry or corporate bodies:
Nil

22. Publications:

* Number of papers published in peer reviewed journals (national / international)
7 (Seven) National/ 75 (Seventy five) International

* Monographs: Nil

* Chapters in Books: 5 (Five)

* Edited Books: 2 (Two)

* Books with ISBN with details of publishers:

Biophysics. (Ed. Misra A N) ISBN 979-953-307-290-5. InTech.

Plant Tissue Culture. HPSharma, JVVDogra and AN Misra (eds.), Agrobios.

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) 169 in Scopus/ 203 (Web of Science)

* Citation Index – range / average

SI No.	Name of Faculty	Range (last 5 years)	Average Citations
1	Prof. A. N. Misra	63-155	121.6 (608/ 5)
2	Dr. PK. Sharma	20-58	35.6 (178/ 5)
3	Dr. R. Mishra	28-78	62.4 (312/ 5)
4	Dr. A. Kumar	2-5	3.33 (10/3)
5	Dr. A. K. Panda	6-59	33.33 (100/ 3)
6	Dr. P. Sharma	81-373	216.8 (1084/ 5)

* SNIP

* SJR

* Impact Factor – range / average

SI No	Faculty	Range	Average (Total Impact/ Total Papers)
1	Prof. A. N. Misra	0.4 - 7.9	1.9 (40.1/21)
2	Dr. P.K. Sharma	2.27 - 6.63	5.54 (44.39/8)
3	Dr. R. Mishra	1.495 - 11.981	4.745 (61.68/13)
4	Dr. A. Kumar	0.564 – 4.415	
5	Dr. A. K. Panda	1.44 - 7.48	3.40 (85.07/25)
6	Dr. P. Sharma	1.955-4.072	3.51 (7.027/2)

* h-index

SI No.	Name of Faculty	h	i10
1	Prof. A. N. Misra	13	17
2	Dr. PK. Sharma	8	7
3	Dr. R. Mishra	10	10
4	Dr. A. Kumar	1	0
5	Dr. A. K. Panda	6	4
6	Dr. P. Sharma	10	10

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Prof. A. N. Misra visited NAS of Ukrain/CAS of Czech.
26. Faculty serving in
- a) National committees
 - Prof. A. N. Misra:
 - 2014 Member of Central University Vice Chancellors Committee for ‘Common Curriculum, Choice Based Credit System, students and faculty mobility’.
 - 2014 Working group member, to advise and implement ‘Value Education in Indian Universities/Institutes’.
 - 2010-11 Member (Elected), Plant Science Section, Indian Science Congress Association
 - b) International committees
 - Prof. A. N. Misra is an International Assessor for Professor selection in University of Benin, Nigeria.
 - c) Editorial Boards
 - Prof A.N. Misra is serving as Editor in Chief –International J. Pure & Applied Science (IJPAS) since 2010.
Editorial Board/ Editorial Advisory BoardMember – African Journal of Plant Sciences, Acta Agriculturae Slovanica, General & Applied Plant Physiology, Turkish Journal of Botany, Vegetable Crops Research Bulletin, Chilean J. of Agric. Res., Plant Soil & Environment, Biochemistry Insight - online, Biological procedures – online.
Also referee for many SCI journals.
 - Dr. R. Mishra is a referees for the following Journals:
British Journal of Cancer. Publisher: Nature Publishing Group. BMC Cancer. Publisher: Biomed Central. Apoptosis. Publisher: Springer. Experimental Cell Research Publisher: Elsevier . Current Drug Target. Publisher: Bentham Science. Expert Opinion on Therapeutic TargetPublisher: informa health care. Head and Neck. Publisher: John WILEY. Cancer Cell International. Publisher: Biomed Central. Arch Oral Biology. Publisher: Elsevier . International Journal of Tumor Therapy. Publisher: Scientific & Academic Publishing,
 - d) any other (please specify)
 - Prof. A. N. Misra is a Ph.D. thesis examiner Univ. in Romania.
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). All the Four Assistant Professors completed UGC-Orientation and Refresher Course.

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: 100%
- percentage of students doing projects in collaboration with other universities / industry / institute: 33%

29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows:

Name	Funding Agency
Dr. Hamdino Ahmed, Egypt.	FICCI-DST CV Raman Fellowship for African Researchers
Prof. Amal A. Mohamed, Egypt.	
Dr. M. Misra	UGC-PDF for Woman
Anisha Rupashree, Ph.D. student.	DST-INSPIRE Fellowship
Amit Gautam, Ph.D. student	
Eqlakh A. Khan, Ph.D. student	UGC-Maulana Azad Fellowship
Kiran Kachhap, Ph.D. student	UGC-Rajiv Gandhi Fellowship for Ph.D.
Pritee Swarupa, Ph.D. student	CSIR-NET (JRF)
Kamdeo Kumar Paramanik	
Sanjeeta Avijita, Ph.D. student	
Manjar Alam	CSIR-NET (LS)
Dolly Krishnan (NET-LS)	

- Students:
 - Summer Training Fellowship 2013 at IISc.
 - M.Sc. Fellowship through DBT-BUILDER.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

31. Code of ethics for research followed by the departments: Yes. Human ethical/ Animal Ethics/ Biosafety Committees are there.

32. Student profile programme-wise [last 5 years]:

Name of the Course (refer to question no. 4)	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
ILS (M.Sc.)	141	37	104	Our first batch yet to come	
Ph.D.	14	7	7		

33. Diversity of students

Name of the Course	% of Students from the University (CUJ)	% of Students from other Universities/ Board within the State	% of Students from other Universities/ Board Outside the States	% of Students from other Countries
ILS (M.Sc.)	Nil	60%	40%	0
Ph.D.	Nil	7%	93%	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. 3 (Three) NET

35. Student progression

Student progression	% against enrolled
UG to PG (year wise & course wise)	2010- 13 2011-12 2012- 26 2013- 23 ; 2013 (Lateral) – 20 2014-29; 2014 (Lateral) -18
PG to M.Phil/Ph.D	NIL
Ph.D to Post Doc	NIL
Employed through campus recruitment	NIL
Employed through other than campus recruitment	NIL
Self-employed /entrepreneurs	NIL One as Yoga Instructor in China.

36. Diversity of staff

Percentage of staff from the State	41.6% (5/12)
Percentage of staff from other States	58.4% (7/12)
Percentage of staff from other countries	NIL
Percentage of staff who are graduates of the same university	NIL
Percentage of staff who are graduates from other universities within the state	25% (3/12)
Percentage of staff who are graduates from other universities within other states	75% (9/12)
Percentage of staff who are graduates from other universities from other countries	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: One received Ph.D. degree.

38. Present details of departmental infrastructural facilities with regard to

Library	NIL
Internet facility for staff & students	WiFi Connection through University LAN
Total number of class rooms	4
Class rooms with ICT facility	2
Student's laboratories	2
Research Laboratories	3
Others	One Faculty Room (for all faculties)

39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university
- from other institutions/universities:

Name	Funding Agency
Dr. Hamdino Ahmed, Egypt.	FICCI-DST CV Raman Fellowship for African Researchers
Prof. Amal A. Mohamed, Egypt.	
Dr. M. Misra	UGC-PDF for Woman
Dr. A. K. Singh	PDF in DBT Project
Mr. Otuechere Chiagoziem Anariochi	Redeemer's Univ., Nigeria. Part of Ph.D.
Anisha Rupashree, Ph.D. student.	DST-INSPIRE
Amit Gautam, Ph.D. student	Fellowship
Eqlakh A. Khan, Ph.D. student	UGC-Maulana Azad Fellowship
Kiran Kachhap, Ph.D. student	UGC-Rajiv Gandhi Fellowship for Ph.D.

Pritee Swarupa, Ph.D. student	CSIR-NET (JRF)
Kamdeo Kumar Paramanik	
Sanjeeta Avijita, Ph.D. student	CSIR-NET (LS)
Manjar Alam	
Dolly Krishnan (NET-LS)	
Sovit Ranjan	Ph.D. students
Madhavi Dubey	
Anshu Deokuliar	
Bikram Pal Gandhi	
Satish Kumar	

40. Number of post graduate students getting financial assistance from the university:
- There is an earmark for 20 students for DBT-BUILDER fellowship.
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.
- Periodic assessment of students receptivity, changing scientific avenues and expertise of faculties.
42. Does the department obtain feedback from
- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? For improving the curriculum and teaching/research facilities.
 - b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? For improving the curriculum and teaching facilities.
 - c. alumni and employers on the programmes offered and how does the department utilize the feedback? For improving the curriculum, research facilities and employability of students.
43. List the distinguished alumni of the department (maximum 10): Nil.
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- All the following visitors gave special lectures and seminars, also participated in teaching research students on the research methodology and ethics.
- Resource person for teaching/research training:
 - Prof. Kazimierz Strzalka, Jagiellonian University, Krakow, Poland. 2014.
 - Prof. Reto Strasser, University of Geneva, Switzerland. 2011.
 - Overseas Researchers/ Visiting Scientists :
 - Dr. Amal Ahmed, Egypt. 2013-14.
 - Dr Hamdino, Egypt. 2012-13.

- National: Prof. R. Gadekar, IISc, Bangalore.
45. List the teaching methods adopted by the faculty for different programmes.
 - Using the help of ICT and online study materials.
 - Students are trained in Assignment/short project/ Seminar talks/ power point presentations preparations.
 - Regular field tour/ study tour in local biodiversity rich areas as well as other state are organized under the guidance of faculty members.
 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
 - Programs objectives are monitored through continuous evaluations. Research objectives are met through quality publications in peer reviewed journals.
 47. Highlight the participation of students and faculty in extension activities.
 - Centre's student participate for teaching the under privileged children in the nearby villages under "Unnayan Programme"
 - Students and faculties participate in social activities like blood donation camp organized by NSS.
 48. Give details of "beyond syllabus scholarly activities" of the department.

2014-15: A workshop for training of college faculties and students in modern lab techniques will be organized in this session (Feb 2015).

2013-14: International Symposium on " Advances in Cancer Research:Drug Discovery and Delivery" (Nov 2013).

2010-11: One day National Seminar on Biotechnology (25th Feb 2011).
 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- Basic methodology for teaching and research application of fluorescence techniques are developed and is still being improved for future use in diagnostics of early detection of stress (biotic & abiotic) in crop plants.
 - Work is in progress to develop detection and diagnostic tools for cancer.
 - The Centre is envisaging for Biodiversity conservation in Jharkhand.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.
- Well qualified teachers from various academic backgrounds and trained at reputed Universities and Institutes within India and abroad.
 - Strong foundation of basic bio sciences
 - Generation of technical skills through research and innovation
 - Promotion of inter-disciplinary scientific research
 - Creation of research facilities for scientists across the state of Jharkhand and surrounding
52. Future plans of the department.
To develop Centre for Life Science, CUJ, as an independent School of Life Sciences having various departments of modern Life Sciences.

CENTRE FOR ENGLISH STUDIES

1. **Name of the Department:** Centre for English Studies
2. **Year of Establishment:** 2009
3. **Is the Department part of a School/Faculty of the University?** Yes, School of Languages
4. **Names of Programmes offered:** Ph. D. & Five Year Integrated Masters
5. **Interdisciplinary programmes and Departments involved:**
Interdisciplinary Programmes: Environmental Studies, Computer Fundamentals, Disaster Management
Departments involved: Environmental Science, Land Resource Management, Applied Mathematics
6. **Courses in Collaboration with other Universities/Industries/Foreign Institutions etc.** NIL
7. **Details of Programmes Discontinued, if any, with reasons:** NA
8. **Examination System:** Semester & CBCS
9. **Participation of the Centre in the courses offered by other Centres:**

The Centre offers three/four credit courses in Communicative English to all the Undergraduate students of the University in their first/second semester.

10. Number of teaching posts sanctioned and filled:

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professors	01	NIL	01
Associate Professors	02	01	02
Asst. Professors	04	04	04

11. **Faculty profile with name, qualification, designation, specialization:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Enrolled/Guided in Last 4 years
Dr. B. P.	M. A.	Professo			

Sinha	Ph.D.	r Retired on 31 st Jan 2014	Feminism	30	Nil
Dr. Shreya Bhattacharji	M.A., Ph.D.	Head & Associate Professor	African Literature	13 Years	03
Dr. Rahul Chaturvedi	M.A., Ph.D.	Assistant Professor	Contemporary Literary Theory	4 years 8 months	02
Dr. Sandeep Kumar Yadav	M.A., Ph.D.	Assistant Professor	Indian Writing in English	6 Years 9 months	03
Dr. Ranjit Kumar	M.A., Ph.D.	Assistant Professor	Indian Writing in English	5 Years 5 Months	NIL
Dr. Mayank Ranjan	M.A., Ph.D.	Assistant Professor	Indian Writing in English	4 Years 10 Months	NIL

12. List of Senior Visiting Fellows/Adjunct Faculties/Emeritus Professor:

01

Prof. A. K. Sharma

13. Percentage of classes taken by temporary faculty:

Five Year Integrated Masters Programme: 39.8%

Ph. D.: 25%

Communicative English: 78.5%

14. Programme-Wise Student Teacher Ratio:

Five Year Integrated Masters Programme: 11.1:1

Ph. D.: 3:1

15. Number of academic support staff (technical) and administrative staff: NIL

16. Research thrust areas as recognised by major funding agencies: NIL

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: 02

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Prof. B. P. Sinha	Multicultural Response to Lost Tradition with Special Reference to Tribal Literature in Jharkhand	-----	2 years	-----	UGC
Dr. Sandeep Kumar Yadav	Abrogating Authenticity with a Difference: Indian Poetry in English 1980-2000.	Rs. 8,04,000.00 only	2 years	Ongoing	UGC

18. Inter-institutional Collaborative projects and associated grants received:

- a) National Collaboration: NIL
- b) International Collaboration: NIL

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: NIL

20. Research facility / Centre with:

- (a) State Recognition: NIL
- (b) National Recognition: NIL
- (c) International Recognition: NIL

21. Special research laboratories sponsored by / created by industry or corporate bodies: NIL

22. Publications:

- Number of papers published in peer reviewed journals (national/ International):
International : 10
National: 05
- Monograph: Nil
- Chapters in Books: 16
- Edited books: Nil
- Books with ISBN with details of publishers:

- Yadav, Sandeep Kumar. *Poetic Vision and Art of Dom Moraes*, Sunrise Publications: New Delhi.2009.
- Kumar, Ranjit. *Encyclopaedic Biographies of World's Great Essayists*. Anmol Publications, 2011. ISBN 978-93-80836-38-6
- Kumar, Ranjit. *Encyclopaedic Biographies of World's Great Fiction Authors*; Anmol Publications, 2011. ISBN 978-93-80836-39-3
- Ranjan, Mayank: *A Critical Handbook of English Drama*; Globus Press, New Delhi, ISBN-978-93-82074-84-7, 2013.
- Ranjan, Mayank: *An introduction to English Literature*; Globus Press, New Delhi, ISBN-978-93-82484-62-5, 2013.
- Ranjan, Mayank: *Theory and Practice of Socio Linguistics*; Globus Press, New Delhi, ISBN-978-93-82484-15-8. 2014
- Number listed in international database (for e.g. Web of Science, scopus, Humanities, international complete, Dare databases- International Social Sciences Directory, EBSCO host etc.): NA
- Citation Index-range/average: NA
- SNIP: NA
- SJR: NA
- Impact factor-range/average: NA
- h index: NA

23. Details of patents and income generated: NIL

24. Areas of consultancy and income generated: NIL

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in:

(a) National Committees: Nil

(b) International Committees: Nil

(c) Editorial Boards: Nil

(d) Any Other Please Specify: Nil

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Dr. Rahul Chaturvedi

- Participated in Orientation Programme organized by UGC-Academic Staff College, JNU, New Delhi. October 2012.

- Participated in Reference Course in “Cultures of margin” organised by UGC-Academic Staff College, Jadavpur University, WB. February 2014.

.Dr. Sandeep Kumar Yadav

- Participated in Orientation Programme organized by UGC-Academic Staff College, RDU, Jabalpur. July 2012
- Participated in Reference Course in “Cultures of margin” organised by UGC-Academic Staff College, Kerala University 2013. July- August 2013.

28. Student projects: 9th Semester students enrolled in Five Year Integrated Masters Programme undertake a research project in partial fulfilment of their Masters programme.

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: NIL

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

- Conferences
 - A three-day **International** Conference on “**Voices from the Margin: Society, Culture and Exclusion.**” 20th-22nd February 2013. Jointly funded by ICSSR, New Delhi & Central University of Jharkhand.
 - A three-day **International** Conference on “**Text, Culture and Performance: Postcolonial Issues**” was organized in collaboration with Indian Association for Commonwealth Literature and Language Studies. 2nd -4th February 2012. Jointly funded by Central University of Jharkhand & IACLALS.
- **Workshop:**
 - A two-day Workshop on **Research Methodology (Humanities)**. Guest Speaker: Dr. Sarbani Chaudhuri, Head, Department of English, Kalyani University, West Bengal. 26th-27th November 2014. Funded by Central University of Jharkhand.
 - A two-day Workshop on “**Embittered History: Post-memories of Partition.**” Guest speakers: Aditya Sen, a renowned Bangla novelist; Balbir Dutt, Editor, Ranchi Express; Dr. Kathinka Sinha Kerkhoff, South Asia Regional Representative, IISH. 6th- 7th March 2013. Funded by Central University of Jharkhand.

31. Code of ethics for research followed by the Centre: Plagiarism in any form, is strictly prohibited.

32. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Five Year Integrated Masters Programme (2009)	64	03	06	0%	66.6
Five Year Integrated Masters Programme (2010)	Data Not Available	03	06	Ongoing Batch	Ongoing Batch
Five Year Integrated Masters Programme (2011)	Data Not Available	02	13	Ongoing Batch	Ongoing Batch
Five Year Integrated Masters Programme (2012)	62	05	18	Ongoing Batch	Ongoing Batch
Five Year Integrated Masters Programme (2013)	Data Not Available	09	21	Ongoing Batch	Ongoing Batch
Five Year Integrated Masters Programme (2014)	Data Not Available	08	17	Ongoing Batch	Ongoing Batch

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph. D. Programme (2012)	Data Not Available	04	00	Ongoing Batch	Ongoing Batch
Ph. D. Programme (2013)	Data Not Available	03 (Two International Student)	00	Ongoing Batch	Ongoing Batch
Ph. D. Programme (2014)	Data Not Available	02	03	Ongoing Batch	Ongoing Batch

33. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
Five Year Integrated Masters Programme (2009)	Not Applicable	55.5	44.5	NIL
Five Year Integrated Masters Programme (2010)	Not Applicable	33.3	76.7	NIL
Five Year Integrated Masters Programme (2011)	Not Applicable	60	40	NIL
Five Year Integrated Masters Programme (2012)	Not Applicable	63	37	NIL
Five Year Integrated Masters Programme (2013)	Not Applicable	Data Not Available	Data Not Available	NIL
Five Year Integrated Masters Programme (2014)	Not Applicable	56	44	NIL
Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
Ph. D. Programme (2012)	NIL	25	75	NIL
Ph. D.	NIL	NIL	33.3	66.6

Programme (2013)				
Ph. D. Programme (2014)	40	60	40	NIL

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

1. Mr. Ajay Kumar, qualified UGC NET in December 2012 and June 2013.

2. Md. Humayun Kabir, qualified UGC NET in June 2014.

35. Student progression:

Student progression	% against enrolled
UG to PG (year wise & course wise)	In the year 2010— NIL
Five Year Integrated Masters Programme	In the Year 2011— NIL In the year 2012— Four (44.4%) In the Year 2013—Four (44.4%) In the Year 2014— Ten (66.6%)
PG to Ph.D	02
Ph.D to Post Doc	NIL
Employed through campus recruitment	NIL
Employed through other than campus recruitment	Information not available
Self-employed /entrepreneurs	Information not available

36. Diversity of staff:

Percentage of staff from the State	NIL
Percentage of staff from other States	100%
Percentage of staff from other countries	NIL
Percentage of staff who are graduates of the same university	NIL
Percentage of staff who are graduates from other universities within the state	NIL
Percentage of staff who are graduates from other universities within other states	100%
Percentage of staff who are graduates from other universities from other countries	NIL

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: 04

38. Present details about infrastructural facilities:

Library	Yes, Central Library
Internet facility for staff & students	Yes, the whole campus is wi-fi
Total number of class rooms	06
Class rooms with ICT facility	02
Student's laboratories	01 (Language Lab for the entire University)
Research Laboratories	NIL
Others	-----

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Doctoral Students: 09

(b) From other institutions/universities: NIL

40. Number of students of the centre getting financial assistance from the university (2-5 per year): NA

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. NA

42. Does the centre obtain feedback from:

(A) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

The syllabus is constantly revised and updated by faculty members. Their suggestions and opinions are included in the syllabus after lengthy debates and deliberations and consequent ratification by the Academic Council of the University. The faculty members also suggest innovations in teaching-learning process such as on the modes of sessional examination (Take home assignment, written tests, viva voce).

(B) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

The students submit six- monthly confidential report on the academic performance of the teachers. The Centre Head accordingly suggests teachers to improve their academic endeavours.

(C) Alumni and employers on the programmes and what is the response of the centre to the same? Not Applicable

43. List the distinguished alumni of the centre (maximum 10): NIL

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) with external experts:

- **Conferences/ Seminars**
 - A three-day **International** Conference on “**Voices from the Margin: Society, Culture and Exclusion.**” 20th-22nd February 2013.
 - A three-day **International** Conference on “**Text, Culture and Performance: Postcolonial Issues**” was organized in collaboration with Indian Association for Commonwealth Literature and Language Studies. 2nd -4th February 2012.
- **Workshop:**
 - A two-day Workshop on **Research Methodology (Humanities)**. Guest Speaker: Dr. Sarbani Chaudhuri, Head, Department of English, Kalyani University, West Bengal. 26th-27th November 2014.
 - A two-day Workshop on “**Embittered History: Post-memories of Partition.**” Guest speakers: Aditya Sen, a renowned Bangla novelist; Balbir Dutt, Editor, Ranchi Express; Dr. Kathinka Sinha Kerkhoff, South Asia Regional Representative, IISH. 6th- 7th March 2013.
- **Invited Lectures:**
 - Dr. Sarbani Chaudhuri, Head, Department of English, Kalyani University delivered a lecture on “**Contemporary Critical Trends in Shakespearean Studies.**” 28th November 2014.
 - Prof. Sachidananda Mohanty, Department of English, University of Hyderabad, delivered a talk on Barindra Ghosh’s *The Tale of My Exile*. August 2012.
 - Mark Stephen Levy delivered a lecture on Creative Writing followed by an author- reading session on his novel *Overland*. 26th-27th July 2011.
 - Prof. Jasodhara Bagchi, Formerly Professor Jadavpur University, West Bengal & Member, Academic Council, Central University of Jharkhand delivered a lecture titled “**Literature of Power and Power of Literature.**” 2010.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

- PPT Presentations
- Smart Classes
- Film Screening
- Use of Language Lab

- Student Presentations
- Debates/Speeches

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

- There is a provision for the continuous assessment and evaluation of students through three sessionals and End Semester examination.
- The centre also recommends paper-coordinators to look into the completion of the courses offered.

47. Highlight the participation of students and faculty in extension activities:

- A speech competition on “Role of Youth in Promoting Harmony and Common Brotherhood” in collaboration with Temple of Understanding, Bihar. 4th March 2013.
- A speech competition on “The Afterlife of Gandhi: His Philosophy and its Contemporaneity.” 30th January 2012.
- Parallel cinema focusing on the issues of social importance and adaptations of literary masterpieces are screened fortnightly.
- Students and faculty members enthusiastically participate in all co-curricular activities of the University. In the recent past, they have helped the University organize festivals such as Salva Tagore, Akhra-2012 & Akhra 2013 and so on.
- The Centre was instrumental in initiating the Dance/Drama/Music guild of the University.

48. Give details of “beyond syllabus scholarly activities” of the centre:

- A speech competition on “Role of Youth in Promoting Harmony and Common Brotherhood” in collaboration with Temple of Understanding, Bihar. 4th March 2013.
- A speech competition on “The Afterlife of Gandhi: His Philosophy and its Contemporaneity.” 30th January 2012.
- Parallel cinema focusing on the issues of social importance and adaptations of literary masterpieces are screened fortnightly.

49. State whether the programme/ centre is accredited/ graded by other agencies. No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

Strengths

1. Infrastructural Facilities (Smart Classrooms, Projector & Language Lab)
2. Innovative Syllabus
3. Quality Faculty
4. Innovative Idea of Integrated Programme
5. Punctual, Transparent and Efficient Academic Environment

Weaknesses

1. Lack of Secretarial Assistance
2. Less number of Faculty members
3. Non-availability of Personal Cabin for Teachers
4. Absence of Departmental Library
5. Temporary Campus

Opportunities

1. To help and promote quality research
2. To set a standard in English teaching in Jharkhand
3. Financial Grants for organizing/attending conferences

Challenges

1. To have and retain quality teachers
2. Developing a good library
3. Distance from the town
4. To sustain quality teaching-learning environment
5. To cater to the professional challenges of the students

52. Future plans of the centre:

1. To develop the Centre into Centre for Excellence.
2. To collaborate with National and International Institutes to promote quality research and teaching.
3. To organize Workshops/ Conferences/Seminars/ Symposia.
4. To start a Research journal.
5. To start student's Literary Club.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

Dr. Shreya Bhattacharji

Research Publications:

1. Bhattacharji, Shreya: “Playing the Game of Linguistic Chess: Domination, Subversion and Celebration” published in the book *Rethinking Multilingualism: Issues And Problems*, edited by Shailendra Kumar Singh, EBH Publishers, Guwahati, India, 2009. ISBN 978-81-9078-123-7.
2. Bhattacharji, Shreya: “Women Prisoners of West Bengal and Human Rights: An Overview” published in the book *Human Rights In India: Historical Perspectives and Challenges Ahead*, edited by Amit Bhattacharyya and Bimal Kanti Ghosh, Setu Prakashani, Kolkata, India, January 2010. ISBN 978-81-903272-1-3 (Pb). ISBN 978-81-903272-3-7 (Hb).
3. Bhattacharji, Shreya: “Irreverant Believers in Lost Causes: Chimamanda Ngozie Adichie’s *Incorrigible Women*” published in the book *African Women Novelists: Re-Imaging Gender*, edited by Mala Pandurang and Anke Bartels, Pencraft International, New Delhi, India, 2010. ISBN 978-81-909416-3-1.
4. Bhattacharji, Shreya: “Mapping Borders/Screaming Skeletons: Relocating Women in Partition Narratives” in an anthology *Marginalised Identity* edited by Jumyir Basar et al., Commonwealth Publishers, New Delhi, India, 2012. ISBN 978-81-311-0383-8.
5. Bhattacharji, Shreya: “Decoding the Moves of Colonial Chess: Premchand/Satyajit Ray’s *Shatranj Ke Khiladi*” published in the book *Filming Fiction: Tagore, Premchand, and Ray*, edited by M Asaduddin and Anuradha Ghosh, Oxford University Press, New Delhi, India, 2012. ISBN-13:978-0-19-807593-6, ISBN-10:0-19-807593-6.
6. Bhattacharji, Shreya: “Foregrounding Caliban in Prospero’s Narrative: Unearthing Socio-cultural Gender-friendly Traditions of Two Tribal Societies: The Lepchas of India and the Igbos of Nigeria” published in the book *Politics of Culture, Identity and Protest in North-east India (Volume 1)*, edited by Padam Nepal and Anup Shekhar Chakraborty, Authorspress, New Delhi, India, 2012. ISBN 978-81-7273-626-2.
7. Bhattacharji, Shreya: “Tribal Igbo Culture without Blinkers: Achebe to Adichie: ‘Mbari’ to Literature” published in *Litscape, Journal of VUETC, Vidyasagar University English Teachers’ Consortium*, Vol. 8, No. 1, 2013, pages 1-10, edited by Tapan Jyoti Banerjee. ISSN 0976-9064.

8. Bhattacharji, Shreya: "Lesser Known Worlds of Sycorax: Lepchas of India and Igbos of Nigeria" published in *Expanding the Frontiers of Comparative Literature (1): A Return to the Transnational Tradition* edited by Sung-Won Cho, Chung-Ang University Press, Seoul, South Korea, 2013. ISBN 978-89-7207-288-1 (set), ISBN 978-89-7207-289-8.
9. Bhattacharji, Shreya: "The Hegemonic Game of 'Exclusion'/'Inclusion' 'Chaos'/'Cosmos' Exploring the Dynamics of the 'Evil Forest' in Chinua Achebe's World" published in *Middle Flight, SSM Journal of English Literature and Culture (Special Volume: New Literatures)*, Vol.2, No.1, October 2013, pages 6-14, edited by Debdas Roy. ISSN 2319 7684.
10. Bhattacharji, Shreya: "Voices Categorically Marginalized: A. Revathi's *Trans - Autobiography The Truth About Me*" published in the book *Marginality: Reflections from Indian Literature*, edited by S. Balakrishnan et al, Vergal Publication, Madurai, Tamil Nadu, India, 2013. ISBN 978-81-928113-1-4.
11. Bhattacharji, Shreya: "Re-reading Globalization without Blinkers: Aravind Adiga's *The White Tiger* and Pseudo-Democratic India" published in *Indian English Prose and Poetry: New Perspectives, Proceedings of UGC Sponsored Two Day National Seminar (6th-7th December, 2012) Midnapore College, West Bengal*, edited by Amal Kanti Chakraborty, Amritalok Sahitya Parishad, Midnapore, West Bengal, India, 2013. ISBN 81-89365-69-X.
12. Bhattacharji, Shreya: "Foregrounding the Margin: Socio-Cultural, Gender Friendly Traditions of the Lepchas of North-East India and the Igbos of South-East Nigeria" in an anthology *Performing Identities: Celebrating Indigeneity in the Arts* edited by Geoffrey V. Davis et al., Taylor & Francis Ltd, London, Great Britain, 2014, Routledge India, 2014. ISBN 13: 9781138795990, ISBN 10: 1138795992 (In Press)

Conferences:

- Presented "Myopic Masculinities and Feminine Silences: Refocusing on Achebe's *Igboland* through Adimora-Ezeigbo's Lens" at the International Seminar on Remembering Chinua Achebe organized by the Department of Studies in English, University of Mysore, March 20-21, 2014.
- Presented "Translation across Disciplines: The Bodanis and Gamow Unconventional Physics Narratives" at the XVI International Conference on Translation, Comparatism and the Global South jointly organized by The Forum on Contemporary Theory, Baroda and Department of Studies in English, University of Mysore at Mysore, December 15-18, 2013.

- Presented “The Seven Loves of A She-Devil: Re-defining Fe(male) Criminality in Susanna’s Seven Husbands/7 Khoon Maaf” at the International Conference on Literature to Cinema: Adaptation, Appropriation, Adulteration organized by the Department of Humanities and Social Sciences, National Institute of Technology, Durgapur, West Bengal June, 1-3, 2013. Also presided over a session at the conference.
- Presented “Voices We Would Rather Suppress: Women in Prisons of India” at the International Conference on Women Empowerment in India organized by Institute for Social Development and Research, Ranchi, Jharkhand, March 1-3, 2013. Also presided over a session at the conference.
- Presented “Voices We Would Rather Not Hear A. Revathi’s transautobiography The Truth About Me” at the International Conference on Voices from the Margin: Society, Culture and Exclusion organized by School of Languages, Central University of Jharkhand, Ranchi, February 20-22, 2013. Also presided over a session at the conference.
- Presented “Shattering the Colonial Myth of the African Woman: Re-reading Ifi Amadiume’s Male daughters, female Husbands” at the two day International Conference on “De-territorializing Diversities: Cultures, Literatures & Languages of the Indigenous” organized at Maharaja Agrasen College (University of Delhi), Delhi, February 6 -7, 2013
- Presented “Comparativity in the Classic Derridean Gap (Re)locating the Outsider in Theory/Praxis -- Discourse/Reality” at the XIth CLAI Biennial International Conference on ‘The Journey of Comparative Literature: India and Beyond’, organized at Department of Comparative Literature, Jadavpur University, Kolkata, January 16 - 18, 2013.
- Presented “*The Ever-Mythic Position of Women: Creation Myths and Contemporary Women in India, Nigeria and Australia*” at the UGC Sponsored International Conference on ‘Myth and Cult in Literature’, organized at St. Andrew’s College (University of Mumbai), Mumbai, September 27 - 28, 2012. Also presided over a session at the conference.
- Presented “*Cartographical Sport/Throttled Stories: Re-reading 1947 India/Pakistan*” at the 14th International Conference on the Literature of Region and Nation, organized at the University of Pecs, Hungary, June 20- 24 2012.
- Presented “*Stories We Would Rather Not Hear: Women in Prisons of India*” at the International Conference on Minority Discourses Across

Cultures jointly organized by the Comparative Literature Association of India and Department of English, Central University of Rajasthan, Bandra Sindri, Kishangarh, Ajmer, February 26-28, 2012. Also chaired a session entitled “Crisis of Identity in African/African-American Literature Part 1”.

- Presented “*Blurred Overlaps and Fading Margins: The Osmotic Relationship between “Text” and “Culture” in Karen King-Aribisala’s The Hangman’s Game*” at the International Conference on Text, Culture, Performance: Postcolonial Issues jointly organized by IACLALS and Centre for English Language, Central University of Jharkhand, Ranchi, February 2-4, 2012.
- Presented “*Selective Amnesia in Colonial/Nationalist Discourse : The Igbo Women’s War of 1929*” at the Chotro IV International Conference on Imagining the Intangible: Languages, Literature and Visual Arts of the Indigenous jointly organized by ACLALS & Bhasha Research and Publication Centre, Baroda, January 6-8, 2012.
- Chaired a session and was discussant at a five day seminar “Me and My Writing: Women Writers from Africa and India” jointly organized by Indian Institute of Advanced Study, Shimla, India International Centre, New Delhi, and Bharati College, Delhi University, New Delhi, November 19-23, 2010.
- Joint paper “*Frankenstein’s Monster: The Railways*” presented by co-author Dr. Amitabha Bhattacharyya at International Conference on Biodiversity and Environmental Governance in Canada and India: Safeguarding Ecosystems for Human Welfare organized by Centre for Canadian Studies, Department of English, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand, in collaboration with Department of Biology, McMaster University, Hamilton, Canada, October 21-23, 2010.
- Presented “*Foregrounding the Margin: Socio-Cultural Traditions of the Lepchas of North-East India and the Igbos of South-East Nigeria*” in the Chotro III International Conference on Local Knowledge - Global Translations: The Imagination and Images of Indigenous Communities in the Twenty-first Century organized by Developing Countries Research Centre, Delhi University, Bhasha Research and Publication Centre and the Association for Commonwealth Literature and Language Studies in Delhi, September 11-12, 2010 and in Chail, Himachal Pradesh, September 13-16, 2010.
- Presented “*Voicing Sycorax and Caliban: Socio-Cultural Gender-Friendly Traditions of Two Tribal Societies: The Lepchas of India and the Igbos of Nigeria*” at the XIXth Congress of the International Comparative Literature Association with its focal theme Expanding the

Frontiers of Comparative Literature organized at Chung-Ang University, Seoul, South Korea, August 15 - 21, 2010.

- Presented “*Mapping Borders/Screaming Skeletons: Relocating Women in Partition Narratives*” at International Seminar on Negotiating Interventions in South East Asia organized by Arunachal Institute of Tribal Studies, Rajiv Gandhi University, Itanagar, February 15-17, 2010.
- Presented “*Voicing the Other’s Other: Tribal Igbo Women in Pre-Colonial Nigeria*” at International Conference on Identity and Cultural Dynamics: Tribes of South Africa, Nigeria and North East India organized by Rajiv Gandhi University, Itanagar, Arunachal Pradesh, India, in collaboration with Sahitya Akademi and ICSSR, New Delhi, October 28-30, 2009.

Invited Talks

- Delivered an Invited Lecture on “**Stories We Would Rather Not Hear: Women in Prisons of India**” on the broad topic **Culture Therapy, Women and Indian Prisons** at the Department of English, Kalyani University, Kalyani, West Bengal, August 14, 2014.
- Invited to deliver a special lecture on “**African Tribes**” at the Department of Tribal Studies. Kannada University, Hampi, Karnataka, March 24, 2014.
- Invited to deliver a special lecture on “**Communcation Skills**” at KLE Society’s Gudleppa Hallikeri College, Haveri, Karnataka, March 22, 2014
- Invited as Resource Person to deliver a talk on *Worlds We Choose to Ignore: Lepchas of India and Igbos of Nigeria* at the two-day national seminar on **Folk Art And Literature: Text And Context** organized by Department of English, Vidyasagar University, Midnapore, West Bengal, under the UGC DRS (SAP) programme, 25 - 26 March, 2013.
- Invited as Resource Person to deliver a talk on *Re-reading Globalization Without Blinkers: Aravind Adiga’s The White Tiger and Pseudo-Democratic India* at the **UGC Sponsored National Seminar on ‘Indian English Prose and Poetry: New Perspectives’** organized at Midnapore College, West Bengal, 6th-7th December, 2012. Also presided over two sessions at the seminar.
- Invited as Plenary Speaker to deliver a talk on *New Literatures in English* at the **UGC Sponsored National Seminar on New Trends in English Studies**, organized by the University Department of English, Sidhu Kannu Murmu University, Dumka, Jharkhand, September 7-8, 2012. Also presided over a session at the seminar.

- Delivered lecture on *Communication Skills* at the **Personality Development Camp** organized by Akhil Bhartiya Vidhyarthi Parishad, Naharlagun, Arunachal Pradesh, April 28 - May 1, 2010.
- Presented a talk “*Igbo Socio-Cultural Organizations and Chinua Achebe*” at the programme “**Focus Africa: Things Fall Apart and Chinua Achebe’s Work**” organized at India International Centre, New Delhi, August 11, 2009.

Dr. Rahul Chaturvedi

- Chaturvedi, Rahul. “Thus Spoke Caliban: The Making and Unmaking of Historical Beast in Tabish Khair’s *The Thing about Thugs*” in Tabish Khair: *Critical Perspectives*. Ed. Cristina M. Gámez-Fernández and Om Prakash Dwivedi. UK: Cambridge Scholar Press. 2014.
- Chaturvedi, Rahul. “Partition in Tabish Khair’s *Filming: A Postmodern Revisiting*.” *Research and Criticism. Journal of the Department of English, Banaras Hindu University. New Series, Vol. II. 2011 .*
- Chaturvedi, Rahul. “Self as Narrative in *The Narrator: A Novel: A Narratological Perspective*.” *The Criterion: An International Journal of English. Vol. II. Issue I. April 2011.*
- Chaturvedi, Rahul. “Githa Hariharan’s *When Dreams Travel: A Feminist/ Postmodern Metafictional Perspective*” in *The Woman Question in the Contemporary Indian Women Writings in English*. Ed. Indu Swami. New Delhi, Sarup Books Publishers. 2010.
- Singh, Anita and Rahul Chaturvedi. “*Historiographic Metafiction in Salman Rushdie’s Midnight’s Children*” in *Indian Booker Prize Winners*. Ed. Sunita Sinha. New Delhi. Atlantic Publishers. 2010.

International Seminars:

- Participated and presented a paper entitled “*Translation as Simulacra: Theories of Baudrillard and Translations of Kabir*” in an International conference on “*Translation, Comparatism and the Global South*” organized by Forum on Contemporary Theory, Baroda. December 15-18, 2013.
- Participated and presented a paper entitled “*Rereading Shakespeare’s Tempest from a Postfeminist Location*” in *World Shakespeare Conference* organized by Shakespeare Society of Eastern India in collaboration with Banaras Hindu University, Varanasi, India. December 3-5, 2012.
- Participated and presented a paper entitled “*Women, Cinema and Dirty Picture*.” International Seminar on *Text, Culture & Performance: Postcolonial Issues* in an International conference organized by Central

University of Jharkhand, Ranchi, in collaboration with IACLALS. February 2-4, 2012.

- Participated and presented a paper entitled “Stepping across the Lines: Experiments in Narrative in *The God of Small Things*” in an International Seminar on *Theory at Work: Text, History and Culture* organized by Banaras Hindu University. November 9-11, 2010.
- Participated and presented a paper entitled “A Myth Called India: Salman Rushdie’s *Midnight’s Children*” in an International Seminar on *Imagining India: Discourse of the Nation* organized by Banaras Hindu University, Varanasi, India. December 18-19, 2009.

National Seminars:

- Participated and presented a paper entitled “Postmodern Indian English Fiction: A Select Study” in a National Seminar on *New Trends in English Literature* organized by University Department of English, S. K. M. University, Dumka Jharkhand. December 7-8, 2012.
- Participated and presented a paper entitled “(Dis)eased Narrators of Rushdie and Paranjape” in National Seminar on *Literature and Subconscious* organized by Karim City College, Jamshedpur, Jharkhand. December 20-21, 2011.
- Participated and presented a paper entitled “Tabish Kher’s *Filming: A Postmodernist Reading*” in a National Seminar on *Twenty-first Century Indian English Novel* organized by MGKVP University, Varanasi. February 5-6, 2011.
- Participated and presented a paper entitled “Voices from the Edge: Reconceptualization of Subalterns in *The God of Small Things*” in National Seminar on *India in the Fiction of Indian Booker Prize Winners* organized by VSSD College, Kanpur. November 27-28, 2010.
- Participated and presented a paper entitled “Self as Narrative in Makarand Paranjape’s *The Narrator*” in a National seminar on *Research without Boundaries: National Seminar on Interdisciplinary Research and Studies in Humanities* organized by Banaras Hindu University. September 9-10, 2010

Dr. Sandeep Kumar Yadav

Books:

- Yadav, Sandeep Kumar. *Poetic Vision and Art of Dom Moraes*, Sunrise Publications: New Delhi. 2009.

Research Articles:

- Yadav, Sandeep Kumar. “Interrogating Divinity: Dom Moraes’s ‘After the Operation’ Sonnet Sequence.” *Points of View*, 5 (2008-09): 57-62.

International Conference:

- Presented a Paper titled “Sophistry of Negotiation in Nissim Ezekiel’s Background Casually” in International Conference organised by Indian Association for Commonwealth Literature and Language Studies, in Collaboration with Central University of Jharkhand from 2-4 February 2012.
- Presented a Paper titled “Nissim Ezekiel’s ‘Background Casually: A Deconstructionist Reading” in International Conference “Theory at Work: Text History and Culture” organised by Banaras Hindu University in collaboration with Sahitya Academy & ICSSR from 9-11 November 2010.
- Presented a Paper titled “The Burden of Stigma: Locating Dalit Literature in Indian Narratives” in International Conference on “Voices from the Margin: Society Culture and Exclusion” organised by Central University of Jharkhand from 20-22nd Feb. 2013.
- Presented a paper titled “Struggle of Persons with Disability for Employment Opportunities” in an international conference organised by SSPG college Sahjahanpur, U.P.
- Presented a paper titled Different Facets of Love in the Poetry of Kamala Das in an International conference organised by NIT Durgapur from 1-3 June 2013.
- Presented a paper in two day International Seminar organised by Mysore University, Mysore in March 2014.

National Conferences:

- Presented a Paper titled “Folk-tales of Jharkhand” in a National Seminar on “Traditions of Folk in Literature” organised by IGNOU from 30-31 August 2010.
- Presented a paper titled “Different facets of Translation in the Love Poetry of Kamala Das.” National Seminar on Translation, organised by Rani Laxmi Bai College, University of Delhi from 13-14 Jan. 2012.
- Presented a Paper titled “The Problem of the ‘Other’ in The God of Small Things” in a National Conference on “New Trends in English Studies” organised by Sidhu Kanhu Murmu University Dumka, Jharkhand, from 7-8 Sept. 2012.
- Presented a paper entitled “Locating Cultural ‘Space: Moraes’s ‘John Nobody’ and Ezekiel’s ‘Background Casually’ organised by SPU, Gujarat from 21-23 Dec. 2012.

- Presented a paper titled, “Tribal Literature and Global Gaon ka Devta” in a National Seminar on Decentralization organised by CUJ, Ranchi, Jharkhand.
- Presented a paper titled, “Articulating Subaltern: Do We Hear Phoolan’s Voice” in a National Seminar on Indian Literature on Marginality organised by AFCAS, Madurai on 18th Oct. 2013.

Dr. Ranjit Kumar

Books:

- Kumar, Ranjit. *Encyclopaedic Biographies of World’s Great Essayists*. Anmol Publications, 2011. ISBN 978-93-80836-38-6
- Kumar, Ranjit. *Encyclopaedic Biographies of World’s Great Fiction Authors*; Anmol Publications, 2011. ISBN 978-93-80836-39-3

Research Articles:

- “Kumar, Ranjit. “Consequence of Crossing the Threshold in Manju Kapoor’s *Difficult Daughters*” “Modern Agony and Ecstasy of Indian English Literature Sarup Publications PVT. Ltd. (ISBN No. -978-81-7625-900-2) 2009.
- Kumar, Ranjit. “The Prose Style of R.K. Narayan” pub. in *The Hindustan Review* (ISSN No. 0972-1854) Vol. 38 Jan.-Mar. 2009.
- Kumar, Ranjit. “Anita Desai in her World of Psychological Upheavels” pub. in *Ideal Research Review* (ISSN No. 0973-0853) Vol. 21, Mar. 2009.
- Kumar, Ranjit. “An Issue of Gender Discrimination Dealt Delicately in the Play “Tara” pub. in *Matadarsh* (ISSN No. 0974-9888) Vol. 2 Ap. 2009.
- Kumar, Ranjit. “Literary Characteristics in the Age of Romanticism” pub. in *The Hindustan Review* (ISSN No. 0972-1894) Vol.-39Ap.-Jun.2009.
- Kumar, Ranjit. “Representation of Sexual violence in Kamala Markandaya’s Novels “, pub. in “ *In Fictional Capital: New Perspectives on Indian English Fiction*” (ISBN No. 978-81-8043-110-4)
- Kumar, Ranjit. Symbolic Significance of Myth in Karnad’s ‘*The Fire and The Rain*’ pub. in *the Contemporary Responses* (ISBN No. 978-81-925776-2-3, AMS Publications 2013)

International Conferences

- Paper titled ‘Colonized Writes Back’ in Amitav Ghosh’s Fiction’ resented in the Conference sponsored by Indian Council of Social Science Research , New Delhi on 20th-22nd Feb. 2013

National Seminars

- Paper titled “Combating the Multiple Marginalisation of Self in Indian Diasporic women’s poems” sponsored by UGC at Millat College, Darbhanga on 14th Oct. 2011
- Paper titled “Representation of Sexual violence in Kamala Markandaya’s Novels “ sponsored by UGC at M.S.College Motihari on 4th Feb.2012
- Paper titled “Game as a Behavioural Anlysis of Childhood and A Window into Character’s Consciousness in Henry James Fiction” sponsored by UGC at Patna Women’s College, Dept. of English Patna, on 7th Feb. 2012.
- Paper titled ‘Representation of Female Psyche in Shashi Deshpande’s Roots and Shadows’ sponsored by UGC at M.D.D.M. College, Muzaffarpur. On 14th march. 2012.

Paper titled “ Decolonisation of History in Amitav Ghosh’s Fiction” sponsored by UGC in collaboration with The Department of English, Delhi College of Arts and Commerce, University of Delhi, on 11-12 March 2014.

Dr. Mayank Ranjan

Books:

- Ranjan, Mayank: A Critical Handbook of English Drama; Globus Press, New Delhi, ISBN-978-93-82074-84-7, 2013.
- Ranjan, Mayank: An introduction to English Literature; Globus Press, New Delhi, ISBN-978-93-82484-62-5, 2013.
- Ranjan, Mayank: Theory and Practice of Socio Linguistics; Globus Press, New Delhi, ISBN-978-93-82484-15-8. 2014

Research Papers:

- Ranjan, Mayank: V.S Naipaul: Creating Magic with Seeds: The Global and Post Colonial Overview in IAPEN Sponsored Kohinoor, ISSN- 0973-6395, (International) January 2009, p. 36-46.
- Ranjan, Mayank: Anita Desai: A Psychologist’s Approach to Her Fiction in Cyber Literature, ISSN- 0972-0901, p.- 83-91.
- Ranjan, Mayank: Kamala Markanday’s “Some Inner Fury” : The Embodiment of Passion and Anger in the Panorama of the East-West

Conflict, in Explorer, ISSN- 0974-6757, Vol.- XXXII. No. 2, 2008, Creative Writers Circle, Panchsheel Colony, G.T. Road, Sasaram, p. 94-106.

- Ranjan, Mayank: Mulk Raj Anand's Coolie: Story of an Alienated Individual in I.H.A.I. Sponsored Ayush, ISSN- 0974-8075, (International) January 2009, p.-50-54
- Ranjan, Mayank: Jim Corbett: Hunter, Author and Legend, ISSN- 0974-6757, Creative Writers Circle, Panchsheel Colony, G.T. Road, Sasaram, p. 94-106.
- Ranjan, Mayank: George Eliot's Middlemarch: A Distinguished Approach to Feminism, in Literary Churning Vol. II, ISSN 2320-494X, July 2013.

International Conferences:

- International Conference on Voices from the Margin: Society, Culture and Exclusion, 20th -22nd February 2013, CUJ, Ranchi, Presented paper on: - "George Eliot's Middle March: A Distinguished Approach to Feminism"
- 3rd International Seminar on Women Empowerment in India (Interdisciplinary), 1st – 3rd March, 2013, Institute for Social Development & Research, Ranchi, Presented paper on "A Proto-Feminist Approach to Society: A Study through George..."
- International Conference on Republic in Shakespeare. Oct 2013, Jammu University of Jammu, Organized by Shakespeare Association of India. Also presented paper titled Shakespeare's Julius Caesar and the Shiv Purana: The Republican Concept..

National Seminars:

- U.G.C. National Seminar in English – 11th-12th March, 2011; T.M. Bhagalpur University, Bhagalpur. Also presented a research paper entitled "Kamala Markandaya: Collecting Nectar in a Sieve"

Invited Talks and Lectures

- Invited to deliver special lectures on ELT and Soft Skill Development at the Department of English, BSILS, T.M. Bhagalpur University, Bihar from 14th Oct to 16th Oct 2014.

CENTRE FOR FAR EAST LANGUAGES (CHINESE, KOREAN & TIBETAN)

1. Name of the Department: Centre for Far East Languages.
2. Year of establishment: 2012
3. Is the Department part of a School/Faculty of the university? Yes. School of languages
4. Names of programmes offered:
 - (i) Chinese Language: 5 years Integrated Master
 - (ii) Korean Language: 5 years Integrated Master
 - (iii) Tibetan Language: 5 years Integrated Master & PhD Programme
5. Interdisciplinary programmes and departments involved:

Korean language is being taught to the students of 3rd semester of Centre for International Relations and 9th and 10th Semesters of Centre for Business Administration. Tibetan language is also being taught in the Centre for Indigenous Culture Studies.
6. Courses in collaboration with other universities, industries, foreign institutions, etc. _____NIL
7. Details of programmes discontinued, if any, with reasons: N.A.
8. Examination System: Semester/Choice Based Credit System
9. Participation of the department in the courses offered by other departments: Indigenous Culture Studies, International Relations and Business Administration.
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	NIL	NIL	NIL
Associate Professor	NIL	NIL	NIL
Assistant Professor	07	07	NIL
Others	NIL	NIL	NIL

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11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Chinese Language:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Ms. Arpana Raj	M.Phil	Assistant Professor	Chinese Language, Literature and Culture Studies	2 years, 4 months	NA
Mr. Sandeep Biswas	M.A.	Assistant Professor	Chinese Language, Literature and Culture Studies	1 year 6 months	NA
Mr. Kaushal Kishore Chandel	M.Phil	Assistant Profess (on lien in JNU)	Chinese Language, Literature and Culture Studies	1 year	NA

Korean Language:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Mr. Mukesh Kumar Jaiswal	M.A.	Assistant Professor	Teaching Korean as a foreign language	4 years, 5 months	NA
Mr. Shashi Kumar Mishra	M.A. (PhD pursuing from Korea)	Assistant Professor	Teaching Korean as a foreign language	10 years, 5 months (Korean, Comparative Grammar Hindi-Korean, English)	NA

Tibetan Language:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Konchok Tashi	Ph.D.	Assistant Professor	Tibetan linguistics/ Studies	3 years, 5 months	Two PhD students are enrolled
Dr. Kalsang Wangmo	Ph.D.	Assistant Professor	Tibetan Buddhism/ Studies	6 years, 5 months	Two PhD students are enrolled

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: NIL
13. Percentage of classes taken by temporary faculty – programme-wise information: 30.77% in Integrated program

14. Programme-wise Student Teacher Ratio: Integrated program: 10: 1/Ph.D: 4: 2
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual NIL
16. Research thrust areas as recognized by major funding agencies: NIL
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Dr. Konchok Tashi	A cognitive account of perception verbs in Ladakh'	Rs. 12, 48000/-	5 years	10 March 2011. The project is at final stage	DST
Mr.Sandeep Biswas	e-pathshala	Rs. 1.5 lakhs	----	----	MHRD/UGC
Dr. Kalsang Wangmo	e-PG Pathshala	----	---	--	MHRD/UGC

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: NIL b) International collaboration: TWO

Dr. Konchok Tashi, Assistant Professor in Tibetan language has been collaborating the following projects with Professor Anju Saxena Department of Linguistics and Philology, Uppsala University, Sweden who is the project leader:

1. Contrastive studies in the lexicon and grammar in the languages of the Himalayas, financed by the Faculty of Languages, Uppsala University, Sweden.
 2. Digital areal Linguistics: a lexical view of the Himalayan microarea, financed by the Swedish Research Council.
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. DST (12. 48 Lakh)
 20. Research facility / centre with
 - state recognition
 - national recognition NIL
 - international recognition NIL

21. Special research laboratories sponsored by / created by industry or corporate bodies:
NIL

22. Publications:

Chinese Language Faculty:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Ms. Arpana Raj	NIL
Mr. Sandeep Biswas	1. “我们出了名儿—发现京剧” in International Students at ECNU 留学丽娃 (East China Normal University, Shanghai; 2011). P.39.

Korean Language Faculty:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Mr. Mukesh Kumar Jaiswal	<p>1. Jaiswal, Mukesh Kr.(2012), A Comparative Study on Personal pronouns of Korean, Hindi and English languages, “Korean Studies in India and South Asia” Edited by Neerja Samajdar; Manak Publications, New Delhi . Page 40-58.</p> <p>2. 무케쉬(2011), 인도인 학습자를 위한 한국어 인칭대명사 교육연구, 서울대학교 석사논문. [Jaiswal, M. K. (2011), A study on teaching methodology of Korean Language Personal Pronouns for Indian learners. M.A. Thesis, Dept. of Korean language Education, Seoul National University, Seoul.]</p> <p>3. Jaiswal, Mukesh kr.(2014), <i>Teaching Korean 2nd Person Pronouns to Indian Learners</i>, “Korean Studies in India and South Asia” Vol. 2 (ISBN No. 978-81-7211-333-9) Edited by Neerja Samajdar ; Nothern Book Centre, New Delhi (72-84), 2014</p>
Mr. Shashi Kumar Mishra	1. Application of Typological and Morphological Features in Korean Language Classroom in Indian Subcontinent published in Korean Language Education Edited by Do Young Kim 2008. Published by Manak Publication, Delhi.

	2. Paper entitled “Korean Language education in the period of transition from 1966 to 1996” to be published by Manak Publication.
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Tibetan Language Faculty:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Dr. Konchok Tashi	<p>1. Tashi, Konchok. (2009). English as medium of instruction in Tribal areas specifically in Leh Ladakh (J&K). In <i>Journal of Indian Linguistics</i> (Refereed journal with ISSN: 0378-0759), 70: 425-428 by Linguistics Society of India, Deccan College, Pune.</p> <p>2. Tashi, Konchok. (2009-2010). The concept of Bhoti’, published in YONTAN: The Ladakhi Cultural Magazine (YLCM) 2009-2010, CUTS, Sarnath, Varanasi.</p> <p>3. Tashi, Konchok. (2010). The polysemy of the deictic motion verb YONG ‘come’ in Ladakhi. In <i>Interdisciplinary Journal of Linguistics</i> (IJL) (Refereed journal with ISSN: 09743421) Vol (3) 2010, pp 191-200 by Department of Linguistics, University of Kashmir, Srinagar.</p> <p>4. Tashi, Konchok. (2010). The Polysemy of the noun GO ‘head’ in Ladakhi. In <i>Journal of Indian Linguistics</i> (Refereed journal with ISSN: 0378-0759), Vol 71, Number 1-4, 2010, pp 207-217 by Linguistics Society of India, Deccan College, Pune.</p> <p>5. Tashi, Konchok. (2012). The Polysemy of the perception verbs Ita ‘look’ and tshor ‘hear’ in Ladakhi: a cognitive analysis’. In <i>Anusilana: Research Journal of Indian Culture, Social and Philosophical stream</i> (Refereed journal with ISSN: 0973-8762), Banaras Hindu University.</p> <p>6. Tashi, Konchok. (2013). Ladakhi Language. In <i>Koul, Omkar N. (ed.) PLSI volume on Languages of Jammu & Kashmir. Orient Blackswan, New Delhi.</i></p> <p>7. Tashi, Konchok. (2014). Perception verbs in Ladakhi: a cognitive approach. In <i>Interdisciplinary Journal of Linguistics</i> (IJL)</p>

	<p>(Refereed journal with ISSN: 09743421) by Dept. of Linguistics, University of Kashmir, Srinagar.</p> <p>8. Tashi, Konchok. (2014). Body part terms in Tibetan language: A cognitive perspective. In <i>Anusilana: Research Journal of Indian Culture, Social and Philosophical stream</i> (Refereed journal with ISSN 0973-8762) by Banaras Hindu University, Vol. LVI.</p> <p>9. Tashi, Konchok. (2014). Language situation in Ladakh: A linguistic and political perspective. In <i>Sheeraza (a special issue on Ladakh)</i>. Jammu & Kashmir Academy of Art, Culture and Languages, Srinagar.</p> <p>10. Tashi, Konchok. (in press). Bhoti: the classical language of the Himalayas. In <i>SAGE: In a volume on 'History, language and literature of Tibet'</i> by CAS, JNU.</p> <p>11. Tashi, Konchok. (forthcoming). Polysemy and homonymy in language and linguistics. In <i>Interdisciplinary Journal of Linguistics (IJL)</i> (Refereed journal with ISSN: 09743421) by Dept. of Linguistics, University of Kashmir, Srinagar.</p>
<p>Dr. Kalsang Wangmo</p>	<p>1. Paper Titled 'Middle Path and Universal Responsibility : A Buddhist Perspective' in Tibet Journal, LTWA, Dharamsala http://www.ltwa.net/Collection/Journal_Tibet.html#</p> <p>2. Paper titled 14th Century Emergence of Gelug Tradition and its Significance in Revival of Buddhism in Tibetan Tradition – Quaterly Magazine, DIALOGUE, October-December, 2012, Volume 14 No. 2, A journal of Astha Bharathi, New Delhi</p> <p>3. Paper titled 'Significance of Lamrim in 14th century monastic reforms and emergence of Gelug Tradition' at the National Seminar on “Origin and Development of Buddhist Sects: Their Cultural Identity and Cross Cultural Perspectives” Departmental Journal, Department of Buddhist Studies, University of Delhi</p> <p>4. Paper titled Globalization and Buddhist non-religion. In Journal, a compilation of</p>

	<p>papers presented in the International Conference on Prospective Scope of Buddhist Studies. Centre for Buddhist Studies, Department of Indo-Tibetan Studies, Viswa Bharti, Santiniketan. (2013)</p> <p>5. Paper titled Position of women in Thailand – Revisit Early Buddhism. In Journal, a compilation of papers presented in the International Conference on Bhikkhuni Sangha and its importance in Buddhism. Centre for Buddhist Studies, Department of Indo-Tibetan Studies, Viswa Bharti, Santiniketan. (2014)</p>
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23. Details of patents and income generated: NIL
24. Areas of consultancy and income generated: NIL
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: NIL
26. Faculty serving in
- National committees: Dr. Konchok Tashi is a member of Grant-in-Aid committee of Central Institute of Indian languages, HRD Ministry, Govt. of India, Mysore.
 - International committees: Mr. Shashi Kumar Mishra is holding the post of President of Researchers' Association for the Study of Korea (RASK)
 - Editorial Boards
 - any other (please specify) NIL
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
- Dr. Konchok Tashi attended the 22-day refresher course on '**Language Contact in South Asia**' from 10th January 2011 to 31st January 2011 at Central Institute of Indian Languages, Mysore-6 under the Directorship of Professor Hans Henrich Hock and Professor Rajesh Sachdeva, Director, Central Institute of Indian Languages, Mysore-6.
 - Dr. Konchok Tashi attended the 4-week General Orientation Course from 17th February 2014 to 17th March 2014 at UGC-Academy Staff College, University of Kashmir, Srinagar, Kashmir-190006.
 - Mr. Shashi Kumar Mishra attend 4-week Orientation programme from 25th of August, 2014 to 19th of Sep. 2014 at JNU, Delhi.
 - Mr. Shashi Kumar Mishra attended two day Korean language Educators workshop organized by Korean Culture Center from 31-10-2014 to 1-11-2014, New Delhi.
28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: NIL
 - percentage of students doing projects in collaboration with other universities / industry / institute: NIL

29. Awards / recognitions received at the national and international level by

- Faculty NIL
- Doctoral / post doctoral fellows: NIL
- Students: _____ NIL

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

School of Languages had conducted an International Conference on “**Voices from the Margin: Society, Culture and Exclusion**” held at Central University of Jharkhand, Ranchi from 20th February 2013 to 22nd February 2014. In this regard, Dr. Konchok Tashi has Received Rs. 5 Lakh funds from Indian Council of Social Science Research (ICSSR), New Delhi.

31. Code of ethics for research followed by the departments: Plagiarism in any form is strictly prohibited.

32. Student profile programme-wise:

Chinese Language:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
IMA Chinese, 2012 batch		01	01	0%	100%
IMA Chinese, 2013 batch		20+1 (lateral entry)	04	66.8%	75%
IMA Chinese, 2014 batch		07	00	---	----

Korean Language:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
IMA Korean, 2012 batch	----	00	02		100%
IMA Korean, 2013 batch		18	02	54.5%	11.1%
IMA Korean, 2014 batch		11	07

Tibetan Language:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female

IMA Tibetan, 2013 batch	08	06	00	100%	----
Ph.D. Program: 2013-14 batch	18	02	00	-----	-----
Ph.D. Program: 2014-14 batch	03	00	02	-----	-----

33. Diversity of students

Chinese Language:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
IMA Chinese, 2012 batch	0%	0%	100%	0%
IMA Chinese, 2013 batch	0%	8.3%	91.7%	0%
IMA Chinese, 2014 batch	0%	0%	100%	0%

Korean Language:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
IMA Korean, 2012 batch	0%	50%	50%	0%
IMA Korean, 2013 batch	0%	12.5%	87.5%	0%
IMA Korean, 2014 batch	0%	83.4	16.6%	0%

Tibetan Language:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
IMA Tibetan, 2013 batch	0%	0%	0%	100%
Ph.D. Program: 2013-14 batch	0%	0%	100%	0%
Ph.D. Program: 2014-14 batch	0%	0%	100%	0%

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

(i)Mr. Eshey Namgial, PhD student in Tibetan language cleared UGC-NET in 2014, ST Category

(ii)Ms. Phuntsog Dolma, PhD scholar in Tibetan language clear UGC NET-JRF in 2011, ST category

(iii)Ms. Heena Thakur, PhD scholar in Tibetan language clear UGC-NET in 2013, ST Category

35. Student progression NA

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	

36. Diversity of staff: NA

Percentage of faculty who are graduates of the same university	
from other universities within the State	
from universities from other States from universities outside the country	

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

One

38. Present details of departmental infrastructural facilities with regard to
- Library : CUJ library
 - Internet facilities for staff and students: Wifi facility is available for both teachers and students
 - Total number of class rooms

2 classrooms for Chinese Language

1 classroom for Korean language

1 classroom for Tibetan language

- Class rooms with ICT facility: use of projector and powerpoint presentation
 - Students' laboratories : Audio-Visual room & Language lab
 - Research laboratories **NIL**
39. List of doctoral, post-doctoral students and Research Associates
- from the host institution/university: 04 in Tibetan language
 - from other institutions/universities : NIL
40. Number of post graduate students getting financial assistance from the university: NIL
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: NIL
42. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - alumni and employers on the programmes offered and how does the department utilize the feedback?
43. List the distinguished alumni of the department (maximum 10): NIL

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- The Centre arranged an **interactive session** for all the students of Chinese language with an **eminent scholar of Chinese Language and Literature from Jawaharlal Nehru University, Mr. Rakesh Kumar** on 30th October 2013 at workshop room, NAC, CUJ, Brambe.
- The Centre organized a **special lecture on the topic; 'Juxtapose: a global odyssey of knowing China and India'** followed by an **interactive class** for the students of Far East Languages, Chinese by the **eminent native Chinese scholar from Harvard University Dr. Yuge Ma** and **research scholar from JNU Mr. Zhangyang** on 13th

Feb. 2014 at CUJ auditorium.

3. The Centre organized a **workshop on Paper Cutting and Tea Culture of China** on 13-02-2014 by the **native Chinese artist, Wu Weixing**.
 4. The Centre organized a **Story Telling Session** in Chinese by the renowned story tellers **Uncle Fat** from **Taiwan** and **Mr. Wu Guoqiang** from **Malaysia** on 30-10-2014 at CUJ campus.
 5. The Centre organized a **special lecture** on the topic **“Chinese Traditional Culture: Miao ethnic group”** followed by an interactive session with the students by a native Chinese, Li Ansiqi on 20th Jan. 2014 at CUJ.
 6. The Centre for Far East Languages, Chinese has organized **3 days’ Chinese Spring Festival, Chun Jie**, from 12th – 14th Feb. 2014 at CUJ’s Brambe campus including various academic (Speech, Quiz competitions), cultural and extra-curricular activities, which enhanced the interest and vision of the students of centre as well as other centres about China and Chinese culture.
 7. The Centre organized **Chinese Competition for University Students** on 19th December 2014 consisting of Calligraphy writing, Essay Writing and debate Competitions.
45. List the teaching methods adopted by the faculty for different programmes.

The Centre uses audio visual while teaching tradition and cultural aspects to the students. PowerPoint Presentation method is also used in teaching along with cultural stuffs related to the respective language. The Centre regularly gives home works and assignments to the students. Occasionally the Centre also screens language and culture related movies and videos.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through Sessional tests and assignments

47. Highlight the participation of students and faculty in extension activities.

1. Three faculties of Korean Language participated in a Korean Language Education workshop from 31-010-2014 to 1-11-2014, organized by Korean Cultural Center, New Delhi.
2. Students of Korean language participated in HANGUEL DAY Celebration at JNU in the month of October, 2013.
3. Students of Korean language participated in All India Korean Language Speech Contest, 2014 at University of Delhi in the month of November, 2013.
2. Students of Korean language participated in HANGUEL DAY Celebration at JNU in the month of October, 2014.
3. Students of Korean language participated in All India Korean Language Speech Contest, 2014 at University of Delhi in the month of November, 2014.

48. Give details of “beyond syllabus scholarly activities” of the department.

1. The Tibetan language Centre has conducted an Educational Tour during the End Semester break from 20th December 2013 to 6th January 2014 at Bodh Gaya. Since culture being part of our curriculum in the Centre, it was beneficial for our students to take a tour of Buddhist sites in and around Bodhgaya which is the birth place of Buddhism. Buddhism being major part of Tibetan culture, it is very imperative for the students in better understanding of emergence of Buddhism which will lay foundation for their overall development of perspective on Tibetan Buddhist Culture.

2. The Centre organized a **workshop on Paper Cutting and Tea Culture of China** on 13-02-2014 by the **native Chinese artist, Wu Weixing**.

3. The Centre for Far East Languages, Chinese has organized **3 days’ Chinese Spring Festival, Chun Jie**, from 12th – 14th Feb. 2014 at CUJ’s Brambe campus including various academic (Speech, Quiz competitions), cultural and extra-curricular activities, which enhanced the interest and vision of the students of centre as well as other centres about China and Chinese culture.

4. The Centre organized **Chinese Competition for University Students** on 19th December 2014 consisting of Calligraphy writing, Essay Writing and debate Competitions.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

1. Our Center provides a great opportunity to get employment to as there is a great demand of Far East Languages learners in India as well as in Far East Countries.

2. We lack in Foreign Faculty (native speaker of concerned language)

3. We lack in Library facility as it is very difficult to get Books of Korean, Chinese and Tibetan in India.

52. Future plans of the department.

1. Center is trying to have student exchange programme with the University of other Countries. Center has already in ongoing talk with Pusan University of Foreign Studies, Republic of South Korea. We are looking forward to contact in China too.

2. Center is planning to have a chair for native faculty of concerned language. We are in touch with Korea Foundation, Republic of Korea.

CENTRE FOR WATER ENGINEERING AND MANAGEMENT

1. Name of the Centre: Centre for Water Engineering and Management

2. Year of establishment: 2009

3. Is the Centre part of a School/Faculty of the University? The Centre is under School of Natural Resources Management.

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.).

The centre is offering 5 year Integrated M.Tech in Water Engineering and Management and Ph.D program in the same discipline.

5. Interdisciplinary Programmes/Courses and Centres involved:

Under Integrated M.Tech in Water Engineering and Management first two semesters, students are offered courses in basic sciences and humanities. Centre for Applied Mathematics, Centre for Applied Physics, Centre for Applied Chemistry and Centre for English Language are actively involved in first two semesters. In the fifth semester, all the centers offer electives and our students usually take the courses from Centre for Environmental Sciences and Centre for Land Resource Management.

6. Courses in collaboration with other universities, industries, foreign institutions, etc: Nil

7. Details of Programmes discontinued, if any, with reasons. Nil

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

Centre is following choice based credit systems in fifth semester. Examinations are conducted on semester basis.

9. Participation of the Centre in the courses offered by other Centres

The centre is involved to teach the courses offered by Centre for Energy Engineering and Centre for Nanotechnology. Students of Centre for Energy Engineering and Centre for Nanotechnology are conducting their laboratory classes in the laboratories available in the Centre for Water Engineering & Management. The following course offered by Centre for Energy Engineering, are taken the faculties of CWEM.

Course	Level	Centre	Teacher
Engg Mechanics	Int M.Tech	Centre for Energy Engg	Er. Birendra Bharti
Engg Mechanics Lab	Int M.Tech	Centre for Energy Engg	Er. Birendra Bharti

Mechanics of Materials and Solids	Int M.Tech	Centre for Energy Engg	Er. Birendra Bharti
Mechanics of Solids Lab	Int M.Tech	Centre for Energy Engg	Er. Birendra Bharti
Engg Drawing and Graphics	Int M.Tech	Centre for Energy Engg	Dr. V. K. Tripathi

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	Nil
Associate Professor	2	1	Nil
Assistant Professor	4	4	Nil

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

<	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Ajai Singh	B.Tech., M.Tech., Ph.D.	Associate Professor and Head	Irrigation and Drainage Engineering	14 (Teach.) 3 res	One, enrolled
Dr. H. P. Singh	B.Tech., M.Tech., Ph.D.	Professor	Geotechnical Engineering	20 (Teach.)	Nil
Dr. P. K. Parhi	B.Tech., M.Tech., Ph.D.	Assistant Professor	Hydrology	9.5 (Industries) 3.5 (Teach.)	Nil
Dr. V. K. Tripathi	B.Tech., M.Tech., Ph.D.	Assistant Professor	Irrigation and Drainage Engineering	7 (Industries)	Nil

				4 (Teach.)	
Er. Birendra Bharti	B.Tech., M.Tech., Ph.D. (persuing)	Assistant Professor	Water Resources Development and Management	4 (Teach.)	Nil
Er. Pratibha Warwande	B.Tech., M.Tech., Ph.D. (persuing)	Assistant Professor	Soil and Water Conservation Engg.	3 (Teach.)	Nil
Pancham Kumar	B.Tech, M.Tech	Assistant Professor (Guest Faculty)	Structural Engineering	2 (Teach.)	Nil

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

2

13. Percentage of classes taken by temporary faculty: 21%

(Programme-Wise Information)

14. Programme-Wise Student Teacher Ratio:

5 year Integrated M.Tech – 28:1

Ph.D Programme – 1:1

15. Number of academic support staff (technical) and administrative staff sanctioned and filled:

2 (Technical staff)

16. Research thrust areas as recognized by major funding agencies

The main focuses of research of Centre are:

- Artificial Recharging of Aquifer
- Riverine Bank Stability Analysis
- Soil and Water Conservation
- Sedimentation Transport Mechanism
- Impact of Forested Watershed on Stream Flow and Water Quality
- Simulation and Water Assessment of River Basins with Distributed and
- Lumped Modeling
- Artificial Neural Network Analysis (ANN) for hydrological processes
- Groundwater Flow Simulation by Ground Water Modeling System (GMS)
- Impact of Climate Change on Water Resources
- Urban Hydrology including Storm Drainage

- Rainwater Harvesting
- Irrigation and Drainage Development Plan
- Investigation of the Drinking Water Supply System.
- Watershed Management
- Identification of cost effective water treatment techniques
- Development and identification of location specific waste water treatment

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received: Nil

(a) National Collaboration:

(b) International Collaboration:

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil (Total Grants Received)

20. Research facility / Centre with:

(a) State Recognition: Yes

(b) National Recognition: Yes

(c) International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. List of Publications in Last Five Years: 93

Name of Teacher	No of publication (Detail in Annexure I)
Dr. Ajai Singh	23
Dr. H.P. Singh	25
Dr. P.K. Parhi	24
	12
	7
	2

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Dr. Ajai Singh	<ol style="list-style-type: none"> 1. Optimal design of tapered microirrigation submain manifolds. 2000. <i>American Society of Civil Engineers, Jr. of Irrigation and Drainage Engineering</i>, 126(6), pp. 371-374. 2. Effect of drip irrigation on yield of cabbage (<i>Brassica oleracea</i> L. var. capitata) under mulch and non-mulch conditions. 2003. <i>Jr. of Agricultural Water Management</i>, The Netherlands, 58, pp. 19-28. 3. Economic feasibility of growing capsicum crop under drip irrigation in West Bengal, India. 2008. <i>Jr. of Irrigation Drainage System</i>, Springer Science, 22, pp.179-188. 4. Comparison of soil and water assessment tool (SWAT) and multilayer perceptron (MLP) artificial neural network for predicting sediment yield in the Nagwa agricultural watershed in Jharkhand, India. 2012. <i>Agric. Water Mgt.</i>, 104, pp.113-120. 5. Comparison of Artificial Neural Network Models for sediment yield prediction at single gauging station of watershed in Eastern India, 2013. <i>Jr. of Hydrologic Engineering, American Society of Civil Engineers</i>. 18:1, 115-120 6. Comparison of Artificial Neural Network Models and Regression Model for Prediction of Evaporation for Malwa Region of Madhya Pradesh, India. 2012. <i>International Agricultural Engineering Journal</i>, 21(3-4), 96-104. 7. Modeling irrigated wheat production using the FAO AquaCrop Model in West Bengal, India for sustainable agriculture. 2013. <i>Irrigation and Drainage</i>, 62: 50–56. 8. Assessing the performance and uncertainty analysis of Soil and Water Assessment Tool (SWAT) and Radial Basis Neural Network (RBNN) models for simulation of sediment yield in Nagwa watershed, India. 2013. <i>Hydrological Sciences</i> (Accepted) 9. Performance Evaluation of Recharge Pits Method of Artificial Recharge of Ground water in Madhya Pradesh, India. 2013. <i>Advances in Water Resources and Protection</i>, 1 (1), 1-10. 10. Modeling Stream Flow with prediction uncertainty by using SWAT hydrologic and RBNN Neural Network models for agricultural watershed in India. 2013. <i>National Academy Science Letters</i> (Accepted). 11. Effect of crop geometry on yield and economics of okra (<i>Abelmoschus exculentus</i>(L.) Moench) under drip irrigation. 2001. <i>Jr. of the Institution of Engineers, Division of Agricultural Engineering</i>, India, 82, 9-12. 12. Yield response of drip irrigated tomato to different levels of irrigation. 2007. <i>Jr. of Interacademia</i>, 11(2), pp. 200-207.

	<ol style="list-style-type: none"> 13. Economic feasibility of drip irrigated tomato crop under rainfed condition. 2007. <i>Agricultural Engineering Today</i>, 31, pp.1-5. 14. Short duration rainfall analysis for effective crop planning in rainfed agriculture. 2008. <i>Jr. of Interacademia</i>, 12(4), pp. 469-477. 15. Application of multilayer perceptron (MLP) artificial neural network model in simulating rainfall-runoff processes. 2011. <i>Jr. of Interacademia</i>, 15(2), 213-221 16. Probability analysis of rainfall for crop planning in Dakshin Dinajpur, West Bengal, India. 2012. <i>Eco. Env. & Cons.</i> 18 (1), pp. 61-64. 17. Hydrological Process Modelling using RBNN - A Neural Network Computing Technique. 2012. <i>Journal of Agricultural Engineering</i>, 49(2), pp. 27-32. 18. Modeling Daily Evaporation Using Multilayer Perceptron Artificial Neural Network Algorithm. 2012. <i>Journal of Interacademia</i>, 16(3), 675-683. 19. Impact Assessment of Rainfall and Soil Temperature on Simulation of Daily Pan Evaporation using Multilayer Perceptron Model, 2013. <i>Jr. of Interacademia</i> (Accepted). 20. Conservation, Storage and Effective Utilization of Rainwater. Proc. National Workshop on Rainwater and Groundwater Management for Sustainable Rice Ecosystem. September 25-26, 2000. AgFE Department, IIT, Kharagpur, India and Institute of Water Resources and Hydrology, University of Hannover, Germany. 21. Economic analysis of capsicum crop under drip irrigation. Seminar on Drip and Sprinkler irrigation systems Development – Prospect, Technical Issues & Solution. Organised by Jalpaiguri Govt. Engineering College and The Institution of Engineers (India). 27th April, 2007. 22. Application of gamma distribution for analysis of rainfall for crop planning in Dakshin Dinajpur, West Bengal. Published in One Day Conference on Agricultural Input for the Development of the NE Region at Assam University. 3rd December, 2008. 23. Performance evaluation and uncertainty analysis of SWAT model for simulating hydrological processes in an agricultural watershed in India. International SWAT Conference, Organized by IIT Delhi and Texas A & M University, USA, July 18-20, 2012, New Delhi, India.
Dr. H.P. Singh	<ol style="list-style-type: none"> 1. Improvement in Liquefaction Resistance of Pond ash using Stone-Sand Columns. <i>International Journal of Geotechnical Engineering</i>, 4(1), 2010, 23-30 2. Strength Characteristics of Fly ash Reinforced with Geosynthetic Fiber. <i>International Journal of Earth</i>

	<p>Sciences and Engineering, 4(6), 2011, 969-971</p> <ol style="list-style-type: none"> 3. Effects of reinforcement on liquefaction resistance of Solani sand. (2012). ASCE Journal of Geotechnical and Geoenvironmental Engineering, 138 (7), 831-840. 4. Use of fly ash Reinforced with Jute Geo-textile as a Pavement Subgrade. (2012). International Journal of Earth Sciences and Engineering, 5(4),562-567. 5. Improvement in CBR value of Soil Reinforced with Jute Geotextile Layers. 2012. International Journal of Earth Sciences and Engineering, 5(02), 1438 -1442. 6. Improvement in CBR Value of Soil Reinforced with Jute Fiber. 2013. International Journal of Innovative Research in Science, Engineering and Technology. 2(8), 3447-3452. 7. Strength and Stiffness Response of Itanagar Soil Reinforced with Jute Fiber. 2013. International Journal of Innovative Research in Science, Engineering and Technology. 2(9), 4358-4367. 8. Strength and Stiffness of soil Reinforced with Jute Geotextile Sheets. 2013. International Journal of Current Engineering and Technology. 3(3), 1243-1246. 9. Strength and Stiffness Response of Itanagar Fly ash Reinforced with Coir Fiber. 2013. International Journal of Innovative Research in Science, Engineering and Technology, 2(9), 4500-4509. 10. Effects of Coir Fiber on CBR Value of Itanagar Soil. 2013. International Journal of Current Engineering and Technology. 3(4), 1283-1286. 11. Strength and Stiffness Response of Itanagar Soil Reinforced with Arecanut Fiber. 2014. International Journal of Innovative Research in Science, Engineering and Technology. 3(10), 16659-16667. 12. Evaluation of Liquefaction Potential of Soil in DEQ Campus of I.I.T. Roorkee 2006. "13th Symposium on Earthquake Engineering" held at I.I.T. Roorkee, India, December 18-20 , 2006, Vol.1,531-538 13. Liquefaction Behavior of Solani Sand using small Shake Table 2008, "12thInternational Conference of IACMAG" held at Goa, India, October 1-6, 2008, 2797-2803 14. Evaluation of Liquefaction Potential of Pond ash 2008. "14th World Conference on Earthquake Engineering" held at Beijing, China, October 12-17, 2008, Paper
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	<p>Number 04-02-0031</p> <ol style="list-style-type: none"> 15. Liquefaction Studies of the Solani sand Reinforced with Geogrid. 2010, “5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics held at San Diego, California, USA, May 24-29, 2010, Paper Number 1.18 (a) 16. Effects of Amplitude, Frequency of Excitation and Relative Density on Liquefaction Resistance of Sand 2010. “14th Symposium on Earthquake Engineering” held at I.I.T. Roorkee, India, December 17-19, 2010, Paper Number P0022 17. Liquefaction Studies on Medium Dense Reinforced Sand. 2011. “14th Asian Regional Conference on Soil Mechanics and Geotech. Engineering” held in Hong Kong, May 23-27, 2011, Paper Number 119 18. Effects of Surcharge Loads on Liquefaction Parameters of Pond Ash 2011. “International Conferences on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011) held at NIT Calicut, India, September, 28-30, 2011, Paper Number G020 19. Study of Strength Characteristics of Coir-Fiber Reinforced Soil 2011. “International Conferences on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011) held at NIT Calicut, India, September, 28-30, 2011, Paper Number G002 20. Use of Fly ash Reinforced with geogrid Sheets as a Pavement Subgrade. 2011. “International Conferences on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011) held at NIT Calicut, India, September 28-30, 2011, Paper Number G007 21. Improvement in CBR value of Fly ash Reinforced with Coir-Fiber 2012, 3rd International conference on Natural Polymer held at Kottayam, Kerala, India., October, 26-28, 2012, Paper No. 118 22. Effects of Betel nut Husk Fiber on CBR Value of Itanagar Soil, Indian Geotechnical Conference (IGC)-2014 to be held at Kakinada, India. December 18-20, 2014, Paper No. T 03P110 23. Strength Characteristics of Fly ash Reinforced with Jute Geotextile sheet. 2011, International Conference on Frontiers of Infrastructure Finance (ICFIF 2011)
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	<p>held at IIT Kharagpur, India. December, 29-30, 2011, Paper No.112</p> <p>24. Randomly Distributed Fiber Reinforced Fly ash. 2011. International Conference on Recent Advances in Civil Engineering held at K.L. University, Vijayawada, Andhra Pradesh, India. October, 20-23, 2011</p> <p>25. Liquefaction Behaviour of Pond ash Improved with Stone-Sand Columns under Surcharge loads. 2012. World Conference on Applied Sciences and Engineering Technology at Vijayawada, Andhra Pradesh, August,17-19, 2012.</p>
<p>Dr. P.K. Parhi</p>	<ol style="list-style-type: none"> 1. A Modification to Kostiakov and Modified Kostiakov Infiltration Models”, Vol 21. Page 1973-1989, Water Resources Management, Kluwer Academic Publishers (Springer), The Netherlands, http:// www.springer.com, ISSN 0920-4741 2. Derivation of a Waterfront Advance-time Relationship for Border Irrigation Using Laplace Transforms” 2012. Accepted for publication in Water and Energy International Journal, Central Board of Irrigation and Power, New Delhi, India. 3. Calibration of Channel Roughness of Mahanadi River (India) using HEC-RAS Model”. 2012. Published in Journal of Water Resources and Protection, Scientific Research Publication Vol. 4, PP 847-850. ISSN 1945-3094 4. HEC-RAS Model for Manning’s Roughness: A Case Study”. 2013. Published in Open Journal of Modern Hydrology, Scientific Research Publication Vol. 3, PP. 97-101. (http://www.scirp.org/journal/ojmh) ISSN 2163-0461 5. Another look at Kostiakov, modified Kostiakov and revised modified Kostiakov infiltration models in water resources applications”. 2013. Published in International Journal of Agricultural Science, International Scholars Journals Vol. 4(3), PP. 138-142. www.internationalscholarsjournals.org. ISSN 2167-0447 6. Beyond the Transboundary River-Issues of Riparian Responsibilities”, Journal of The Institution of Engineers (India): Series A, Springer, Volume 94, Issue 4 (2014), Page 257-261, http://www.springer.com/home, ISSN 2550-2149 7. Managing Water Scarcity in Irrigated Agriculture: Critical Issues Concerning Future Needs”, 2014. Jamsedpur Research Review, International Research Journal, Volume 2, Issue VIII, September to November, Page 50-59, ISSN 2320-2750. 8. A Chance Constrained Optimization Model for Design and Operation of a Reservoir”, 2006. Vol. 30, March-June, Page 87-97, Hydrology Journal, Indian Association of

	<p>Hydrologist, Roorkee. India. ISSN 0971-569X</p> <ol style="list-style-type: none"> 9. Scheduling of Irrigation for Wheat Using Water Balance Approach”, Vol. 28, No. 1, Jan 2008, Indian Water Resources Society, Dept. of WRD&M, I I T Roorkee. ISSN 0970-6984 10. A Precipitation-Runoff Simulation Model for Flood Forecasting of River Tel, Odisha (India)”, Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies, Proceedings of 16th International Association for Mathematical Geosciences, New Delhi, India, 17-20 October, Central Publishing House, New Delhi, 384-387, ISBN: 978-93-81891-25-4 11. Development of Flood forecasting Model for Tel River (Mahanadi Basin, Orissa) using HEC-HMS”, 2013, May 13-14, PP 36-38, Organized by, National Institute of Disaster Management, New Delhi, Ministry of Home Affairs, Government of India. 12. Improving crop water productivity in Irrigated Agriculture: A Revisit” Published in the Proceedings of India Water Week, 2013, pp 55, Water Energy and Food Security: Call for Solution (8-12 April, 2013) Organized by Ministry of Water Resources, Government of India at Bigyan Bhawan, New Delhi. 13. Effect of Waste Water on production and Quality of Cauliflower ”,Published in the Proceedings of 47th Annual Convention of ISAE and International Symposium on Bio-Energy Challenges and opportunities, Jan-28-30, 2013, pp 178, Organized by ISAE and Central Research Institute for Dry Land Agriculture , Hyderabad. 14. Floods in Mahanadi River Basin, Odisha (India), A Critical Riview” Published in the Proceedings of India Water Week, 2012, PP 170-171, Water Energy and Food Security: Call for Solution (10–14 April, 2012), Organized by Ministry of Water Resources, Government of India at Bigyan Bhawan, New Delhi 15. Flood Management Planning in the Mahanadi Basin (India” Published in the Proceedings of Hydro, 2012, Dec-7-8, 2012, PP 1809-1902, Organized by Department of Civil Engineering, IIT Mumbai. 16. Sediment Yield Modeling of a Watershed using Remote Sensing and GIs”,pp 585-594, Published in the Proceedings of Hydro, 2012, Dec-7-8, 2012, PP 1809-1902, Organized by Department of Civil Engineering, IIT Mumbai. 17. Comparative Optimization of Infiltration Parameters”, International Conference on Genetic and Evolutionary Methods (GEM’ 07:, Organised by WORLDCOMP (World Congress in Computer Science Computer Engineering, and Applied Computing) June 25-28, 2007), Las Vegas, USA
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	<ol style="list-style-type: none"> 18. Hydropower Planning For A Reservoir Using Optimization”, Published in Recent Advances in Civil Engineering (RACE), March 1-2, 2007, Organized by CET, Bhubaneswer, Orissa. 19. Satellite Telemetry Vis-à-vis Flood Management through GIS”, Published in Recent Advances in Civil Engineering (RACE), March 1-2, 2007, Organized by CET, Bhubaneswer, Orissa. 20. Emerging Issues in Sharing of Inter-State Waters Vis-A-Vis Water Management” Potable Water for All- Challenges and Solutions” Institution of Engineers (India), Delhi State Centre, held on 13-14 October, 2006. 21. An Insight into GIS Based DSS Model on Rainwater Harvesting.” Potable Water for All- Challenges and Solutions” Institution of Engineers (India), Delhi State Centre, held on 13-14, October 2006 22. Optimal use of Land and Water Resources of Brahmani Basin, Orissa, India, Published in International conference, Recent Advances in Water Resources Development and Management (RAWRDM) Nov. 23-25, 2005, Organized by Department of Water Resources Development and Management, Indian Institute of Technology Roorkee, Uttranchal, India. 23. Optimum Hydropower Generation using NLP Model, Published in International conference, International Conference on Hydrology and Watershed Management (ICHWAM), Dec 5-8, 2006, JNTU, Hyderabad. 24. Managing Water Demand in Irrigated Agriculture: An Analysis, Presented the paper as Invited Speaker in the UGC Sponsored National Seminar on “ Water Management in The Service of Mankind” at J J College Jumeri Telia on 18-19 February 2014
<p>Dr. V.K. Tripathi</p>	<ol style="list-style-type: none"> 1. Performance of different filter combinations with surface and subsurface drip irrigation systems for utilizing municipal wastewater. (2014) Irrigation Science, 32,5, 379-391. DOI 10.1007/s00271-014-0436-2. 2. Sediment yield index mapping and prioritization of Madia sub watershed, Sagar district of Madhya Pradesh (India). (2014) Arabian Journal of Geosciences. Vol. 7: 3131-3145. DOI 10.1007/s12517-013-1007-1. 3. Comparative evaluation of horizontal accuracy of elevations of selected ground control points from ASTER and SRTM DEM with respect to CARTOSAT-1 DEM: a case study of Shahjahanpur district, Uttar Pradesh, India, (2012). Geocarto International, DOI: 10.1080/10106049.2012.724453. 4. Hydro-morphometrical Analyses of Sub-Himalyan region in relation to small hydroelectric power. (2013) Arabian

	<p>Journal of Geosciences, Vol. 6, No. 8, pp. 2889-2899. DOI 10.1007/s12517-012-0586-6.</p> <ol style="list-style-type: none"> 5. Spatial Variability of Ground Water Quality in Mathura District (Uttar Pradesh, India) with Geostatistical Method. (2012) International Journal of Remote Sensing Applications, vol. 2, No. 1, pp.1-9. 6. Microorganism dynamics in soil under drip irrigation system with municipal wastewater. (2012) Journal of Soil and water Conservation, Vol. 11, No.1, pp. 13-18. 7. Hydraulic performance of drip irrigation system with municipal wastewater. (2011) Journal of Agricultural Engineering, vol.48, No.2, pp. 15-22. 8. Spatial variability of satellite derived rainfall erosivity factors (R-factors) for a watershed near Allahabad. (2011) Journal of Agricultural Physics, vol. 11, pp.71-78. 9. Biotic and abiotic processes as a carbon sequestration Strategy. (2010) Journal of Environmental Research and Development, vol.5, no. 1, pp. 240-251. 10. Biometric response of eggplant under sustainable micro irrigation with municipal wastewater. (2014) Book Chapter 16, Sustainable Practices in Surface and Subsurface Micro Irrigation. Apple Academic Press, USA. ISBN: 9781771880176. 11. Quality of Municipal Wastewater for Sustainable Micro Irrigation. (2014) Book Chapter 07, Sustainable Micro Irrigation Management for Trees and Vines. Apple Academic Press, USA. ISBN: 978-1-77188-025-1. 12. Evaluation of Sustainable Micro Irrigation with Municipal Wastewater. (2014) Book Chapter 08, Sustainable Micro Irrigation Management for Trees and Vines. Apple Academic Press, USA. ISBN: 978-1-77188-025-1
<p>Er. Birendra Bharti</p>	<ol style="list-style-type: none"> 1. Modeling of daily pan evaporation in sub tropical climates using ANN, LS-SVR, Fuzzy Logic, and ANFIS. (2014) Journal of Expert Systems with Applications. Volume 41, Pages 5267–5276. 2. Spatial soil erosion and sediment yield modeling of a watershed using GIS. (2012) International Agricultural Engineering Journal (IAEJ) in the 3-4issue of 2012. 3. Spatial distribution of soil loss using M-M-F model, remote sensing and GIS. (2009). Sci-fronts Journal VII (3): 35-46. 4. Identification of Soil Erosion Prone areas of a Watershed Using MMF and GIS. (2013) Accepted for presentation in International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, December 4-6, 2013 at IIT Madras. 5. Sediment Yield Modeling using Remote sensing & GIS

	<p>(2012). Accepted for presentation in International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, December 7-8, 2012 at IIT Bombay.</p> <p>6. Spatial distribution of soil loss using USLE, remote sensing and GIS. (2010). Accepted for presentation at XLIV ISAE Convention, New Delhi. January, 28-30, 2010.</p> <p>7. Quantification of Soil Loss Using MMF Model, GIS and Remote Sensing. (2009). Accepted for presentation in International Conference on Food Security and Environmental Sustainability 2009, December 17-19, 2009 at IIT Kharagpur, West Bengal (India)</p>
<p>Er. Pratibha Warwade</p>	<p>1. Estimation of Soil Erosion and Crop Suitability for a Watershed through Remote Sensing and GIS Approach. Indian Journal of Agricultural Sciences 84(1): 18–23, January 2014/Article.</p> <p>2. Land use land cover change detection of Patani Microwatershed of Madhya Pradesh using remote sensing data. Scientific Research and Essays. Vol . 8(40), pp. 1983-1990, 25 October, 2013.</p> <p>3. Temporal variability in annual precipitation and temperature series at Nagaland, India. National Conference on Science of Climate Change and Earth's Sustainability: Issues and Challenges 'A Scientist-People Partnership' , University of Lucknow, 12-14 September 2011, Lucknow.</p> <p>4. Historical trend analysis in temperature time series at Dikhow catchment, India. International conference on Climate Change Forest Resource and Environment (ICCFRE), University of Kerala, Thiruvananthapuram, 9 -11 Dec. 2011.</p> <p>5. Trend and change-point detection for annual and seasonal discharge series of the Brahmaputra river at the Pandu hydrological station, North East, India. IGCP 582 Annual Meeting and Conference, Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, Indian Institute of Technology Kanpur 5-7 January 2012.</p>

23. Details of patents and income generated:

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Dr. H.P. Singh	A method for improving the strength of pond ash deposits			142/DEL/2009, 25/01/2010
	A method for improving the liquefaction resistance of pond ash deposits			840/DEL/2010, 06/04/2010

24. Areas of consultancy and income generated:

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Dr. H.P. Singh	Site Visit, collection of soil samples, testing, and interpretation of test results and recommendation of safe bearing capacity of soil.		2000	Power Grid Corporation of India Ltd. Test Site at Zero, Along and Daparijo, Arunachal Pradesh.
	Site Visit, collection of soil samples, testing, interpretation of test results and recommendation of safe bearing capacity of soil.		2012	Roni Enterprises, Naharlagun, Itanagar, Arunachal Pradesh. Test Site: Pare Hydel Project at Sopo, Arunachal Pradesh
	Site Visit, collection of soil samples, testing, interpretation of test results and recommendation of safe bearing capacity of soil.		2013	National Project Construction Corporation of India Ltd. Test Site: NERIST Campus at Itanagar, Arunachal Pradesh

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: None**26. Faculty serving in:**

- (a) National Committees: None
- (b) International Committees: None
- (c) Editorial Boards: Please list appended below
- (d) Any Other Please Specify: List below

Name of Teacher/Student	Awards/recognitions received at the national and international level
Dr. Ajai Singh	<ol style="list-style-type: none"> 1. Member of Editorial Board of Sustainable Agricultural Research, ISSN 1927-050X, Canadian Center of Science and Education 2. Member of Editorial Board of Advances in Water Resource and Protection (ISSN Print: 2327-7319) 3. Conferred Distinguished Services Certificate (2012) by Indian Society of Agricultural Engineers, New Delhi.
Dr. V.K. Tripathi	<ul style="list-style-type: none"> • Jain Irrigation Award 2009-2010 by Indian Society of Agricultural Engineers, New Delhi • Qualified NET in Soil & Water Conservation Engineering by ASRB, New Delhi • Qualified NET in Land & Water Engineering by ASRB, New Delhi
Er. Pratibha Warwade	<ul style="list-style-type: none"> • Qualified National Eligibility Test Conducted by Agricultural Scientist Recruitment Board, Indian Council of Agricultural Research (ICAR), Pusa, New Delhi. • Awarded German Academic Exchange Service (DAAD) Fellowship (Six months) for Doctoral Research.
Students	<ul style="list-style-type: none"> • Richa Pandey participated in annual day celebration of CUJ in 100 m race, 4x50 m Realy Race as a team member and the team became the winners. • Richa Pandey and Nivedita participated in annual day celebration of CUJ in Badminton and Volleyball, where the team became winners. • Prena Prasad, VivekVaibhav, Nivedita, Vinita, Priti Kumari and Utkarsh participated in PPT competition and became first runner on the occasion of Ozone Day (16th Sep 2013) celebrated at CUJ, Ranchi. • Surojit Sarkar participated in Inter-University Table Tennis Competition held at Ranchi. • Suraj Kumar & Dhiman Kumar participated in Ranchi District Yoga completion held at Ranchi. • Rahul Kumar Singh participated during annual day celebration of CUJ in Football, Volleyball, Basketball and 4x50 m Relay Race as a team member and the team became the winners. He also participated in

	<p>Cricket tournament where the team became runners-up.</p> <ul style="list-style-type: none"> • Md. Nadeem Akhtar participated in singing competition and was awarded 1st prize on the Annual day celebration of CUJ. • Aditya Kumar Singh and Pappu Kumar participated in Inter-University Volleyball Competition held at Chitrakoot (M.P.). • Raj Kumar Pingua and Surabh Kumar participated in Inter-University Cricket tournament held at Ranchi, Jharkhand during March, 2013. • Prena Prasad, Vivek Vaibhav, Nivedita, Vineeta, Priti Kumari and Utkarsh participated in PPT competition and became winner on the occasion of World Water Day (22nd March 2013) celebrated at CUJ, Ranchi.
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27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Faculties are promoted to attend Orientation, refresher, short term courses.

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 85%

(b) percentage of students doing projects in collaboration with other universities / industry / institute: 15%

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

Dr. Ajai Singh conferred Distinguished Services Certificate (2012) by Indian Society of Agricultural Engineers, New Delhi.

Jain Irrigation Award 2009-2010 by Indian Society of Agricultural Engineers, New Delhi

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil

31. Code of ethics for research followed by the Centre:

The Centre of Water Engineering and Management (CWEM) assign high priority to its research findings as one of its most important contributions to Indian society and to the international community. The centre promotes the

desirable ethical responsibility in the quest for creating knowledge centre. The Code of Ethics for Research serves as a guiding force to inspire researchers/faculties at CWEM to maintain high ethical standards in all research activities. The following basic rights of researchers/faculties are recognised and the centre is determined to promote.

- Creating stimulating research environment with efficient policies and management, support services to promote research.
- Utilisation of the Centre's facilities, services and resources for research.

The academic research of the centre is built on a foundation of trust. The faculties trust that the scientific results reported by other researchers are sound and are based on a tested hypothesis. We are determined to create trust and awareness about the results of research. The ethical principles are respect for the rights and dignity of the scientific community, competence, responsibility and integrity.

32. Student profile course-wise: to be done at university level

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female

33. Diversity of students: : to be done at university level

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details):

Mr. Vivek Bhaibhav and Miss Purna Prasad of 10th semester qualified GATE Examination 2014.

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	97%
PG to M.Phil/Ph.D	Nil
Ph.D to Post Doctoral	Nil

Employed through campus selection	Efforts are continuing.
Employed through other than campus recruitment	Final batch is still to pass out
Self-employed /entrepreneurs	Nil

25. Diversity of staff:

Percentage of staff from the State	Nil
Percentage of staff from other States	100%
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	Nil
Percentage of staff who are graduates from universities from other states	50%
Percentage of staff who are graduates from other universities outside the country	Nil

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: 2

38. Present details about infrastructural facilities:

Library	No
Internet facility for staff & students	Internet is available for staff and students through wi-fi
Total number of class rooms	5
Class rooms with ICT facility	2
Student's laboratories	6
Research Laboratories	Nil
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) **From other institutions/universities: One**

Sl. No.	Name of Students	Area of Research	University last attended
1.	Randhir Kumar	Water Quality Modelling	Sharda University

40. Number of students of the centre getting financial assistance from the university (2-5 per year): One Ph.D student

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: No

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? Feedback for developing the curriculum of the course is generally taken during the faculty meeting and all the comments are being compiled for Board of Studies meeting of the centre.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Yes and the feedback from students are discussed in teachers meeting.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? We are sending our course structures to different companies and this has been appreciated by many companies.

43. List the distinguished alumni of the centre (maximum 10): Nil

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

Students are sent for one month summer/winter practical training.

Educational trip for students are organized. World Water Day is celebrated with the active involvement of the students.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

PPT presentation and field visit followed by discussion are other methods being followed besides chalk and talk method.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Regular meetings of the teachers are held and centre head takes the progress of the course content. Three written sessionals and one final examination are held in each semester to evaluate the learning capacities of the students.

47. Highlight the participation of students and faculty in extension activities:

UNNANYAN is a student's body aimed to teach under privileged students of the local community.

48. Give details of "beyond syllabus scholarly activities" of the centre: (year wise):

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details:

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

As a new centre, we are still focusing on improving the teaching standard along with laboratory experiments. Efforts are being made to generate new knowledge/information through students M.Tech project and this is the reason we are not encouraging all our students to do project work in other Institutions. We have taken up problems which are relevant to Jharkhand. Gradually we will move to address National and International issues.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

- Expertise in water engineering and management.
- Actively involved in running Integrated M.Tech and Ph.D program in Water Engineering and Management since 2009.
- Well developed laboratory.
- Good strength of students.
- The centre is the State Technical Agency for Drinking Water and Sanitation Department, Govt. of Jharkhand

(B) Weaknesses:

- Inadequate permanent teaching faculty strength.
- Inadequate floor space and library facilities.
- Lack of availability of laboratory infrastructure.
- Inadequate capital grant for infrastructural support.
- Inadequate furniture and audio-visual aids.

(C) Opportunities:

- To organize training courses in the field of water resources and hydrologic engineering.
- To organize workshops/conferences/seminars.
- To publish more papers, books, reports etc.
- To extend consultancy services and undertake collaborative research programs.
- To conductive extensive work on waste water treatment

(D) Challenges:

- To conduct Integrated M.Tech program with inadequate faculties.
- To upgrade laboratory facilities.
- To upgrade the computational infrastructure.
- To provide a good placement
- To arrange quality summer training/internship to students

52. Future plans of the centre:

- Strengthening Outreach Programme through applied research project.
- Improving Laboratory facilities to cater the regional need.
- Providing technical/consultancy services to Industry and Govt. Departments.
- strengthening Interdisciplinary, interfaculty cooperation
- strengthening Institutional cooperation

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

NAME: Dr. Ajai Singh, Associate Professor and Head

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

S.No.	Research paper	Impact factor (5 years)
1	Singh Ajai , R.P.Singh, P.S.Mahar and K.K.Singh. 2000. Optimal design of tapered microirrigation submain manifolds. American Society of Civil Engineers, Jr. of Irrigation and Drainage Engineering, 126(6), pp. 371-374.	1.59
2	Tiwari, K. N., Ajai Singh, P.K.Mal. 2003. Effect of drip irrigation on yield of cabbage (Brassica oleracea L. var. capitata) under mulch and non-mulch conditions. Jr. of Agricultural Water Management, The Netherlands, 58, pp. 19-28.	2.822
3	Singh Ajai. 2008. Economic feasibility of growing capsicum crop under drip irrigation in West Bengal, India. Jr. of Irrigation Drainage System, Springer	Not known

	Science, 22, pp.179-188.	
4	Singh, A., M. Imtiyaz, R.K.Isaac, D.M.Denis. 2012. Comparison of soil and water assessment tool (SWAT) and multilayer perceptron (MLP) artificial neural network for predicting sediment yield in the Nagwa agricultural watershed in Jharkhand, India. <i>Agric. Water Mgt.</i> , 104, pp.113-120.	2.822
5	Singh, A., M. Imtiyaz, R.K.Isaac, D.M.Denis. 2013. Comparison of Artificial Neural Network Models for sediment yield prediction at single gauging station of watershed in Eastern India, <i>Jr. of Hydrologic Engineering, American Society of Civil Engineers.</i> 18:1, 115-120	1.62
6	Ajai Singh, V.K.Jain, Jayanta Dutta. 2012. Comparison of Artificial Neural Network Models and Regression Model for Prediction of Evaporation for Malwa Region of Madhya Pradesh, India. <i>International Agricultural Engineering Journal</i> , 21(3-4), 96-104.	Not known
7	Ajai Singh, Sankar Saha, Sanchita Mondal. 2013. Modeling irrigated wheat production using the FAO AquaCrop Model in West Bengal, India for sustainable agriculture. <i>Irrigation and Drainage</i> , 62: 50–56.	1.10
8	Singh, A., M. Imtiyaz, R.K.Isaac, D.M.Denis. 2014. Assessing the performance and uncertainty analysis of Soil and Water Assessment Tool (SWAT) and Radial Basis Neural Network (RBNN) models for simulation of sediment yield in Nagwa watershed, India. <i>Hydrological Sciences</i> , 2(59): 351-364.	1.937
9	V. K. Jain, Ajai Singh, O. P. Soni. 2013. Performance Evaluation of Recharge Pits Method of Artificial Recharge of Ground water in Madhya Pradesh, India. <i>Advances in Water Resources and Protection</i> , 1 (1), 1-10.	Not known
10	Tiwari, K. N., Ajai Singh, P.K.Mal and A.Pandey. 2001. Effect of crop geometry on yield and economics of okra (<i>Abelmoschus exculentus(L.) Moench</i>) under drip irrigation. <i>Jr. of the Institution of Engineers, Division of Agricultural Engineering, India</i> , 82, 9-12	Not known
11.	Singh, Ajai. 2007. Yield response of drip irrigated tomato to different levels of irrigation. <i>Jr. of Interacademia</i> , 11(2), pp. 200-207.	Not known
12.	Singh Ajai, 2007. Economic feasibility of drip irrigated tomato crop under rainfed condition. <i>Agricultural Engineering Today</i> , 31, pp.1-5.	Not known

13.	Singh Ajai, 2008. Short duration rainfall analysis for effective crop planning in rainfed agriculture. Jr. of Interacademia, 12(4), pp. 469-477.	Not known
14	Ajai Singh, Mohd. Imtiyaz, R. K. Isaac, D. M. Denis. 2011. Application of multilayer perceptron (MLP) artificial neural network model in simulating rainfall-runoff processes. Jr. of Interacademia, 15(2), 213-221	Not known
15	Ajai Singh, A.C. Pandey, V.K. Pandey, S.S. Kumar. 2012. Probability analysis of rainfall for crop planning in Dakshin Dinajpur, West Bengal, India. Eco. Env. & Cons. 18 (1), pp. 61-64.	Not known
16	Ajai Singh, Mohd. Imtiyaz, R. K. Isaac, D. M. Denis. 2012. Hydrological Process Modelling using RBNN - A Neural Network Computing Technique. Journal of Agricultural Engineering, 49(2), pp. 27-32.	Not known
17	Ajai Singh, V. K. Jain. 2012. Modeling Daily Evaporation Using Multilayer Perceptron Artificial Neural Network Algorithm. Journal of Interacademia, 16(3), 675-683.	Not known
18	Ajai Singh, V. K. Jain, Sanjeeb Bandhopadhyaya. 2013. Impact Assessment of Rainfall and Soil Temperature on Simulation of Daily Pan Evaporation using Multilayer Perceptron Model , Jr. of Interacademia (Accepted).	Not known

(B) Papers presented in National/International Conferences/Seminars/etc.

Tiwari, K. N., J. Panda, Ajai Singh, P.K.Mal and R.P.Singh. 2000. Conservation, Storage and Effective Utilization of Rainwater. Proc. National Workshop on Rainwater and Groundwater Management for Sustainable Rice Ecosystem. September 25-26, AgFE Department, IIT, Kharagpur, India and Institute of Water Resources and Hydrology, University of Hannover, Germany.

Singh, Ajai. 2007. Economic analysis of capsicum crop under drip irrigation. Seminar on Drip and Sprinkler irrigation systems Development – Prospect, Technical Issues & Solution. Organised by Jalpaiguri Govt. Engineering College and The Institution of Engineers (India). 27th April.

Singh Ajai. 2008. Application of gamma distribution for analysis of rainfall for crop planning in Dakshin Dinajpur, West Bengal. Published in One Day Conference on Agricultural Input for the Development of the NE Region at Assam University. 3rd December.

Ajai Singh, Mohd. Imtiyaz, R. K. Isaac, D. M. Denis. 2012. Performance evaluation and uncertainty analysis of SWAT model for simulating hydrological processes in an agricultural watershed in India. International SWAT Conference, Organized by IIT Delhi and Texas A & M University, USA, July 18-20, New Delhi, India.

Tiwari, K. N., Ajai Singh and P.K.Mal. 2001. Design and development of low cost filter system. XXXV Annual Convention, Indian Society of Agricultural Engineering, Jan 22-25. SWE-01-13, Orissa University of Agriculture & Technology, Bhubaneswar, India.

Ajai Singh and T. K. Das. 2009. Probability analysis of rainfall for crop planning in Dakshin Dinajpur, West Bengal. . XLIII Annual Convention, Indian Society of Agricultural Engineering, February 15-17, Birsa Agriculture University, Ranchi, India.

Jayanta Dutta and Ajai Singh. 2012. Rainfall variability and foodgrain production in Uttar Dinajpur, Dakshin Dinajpur and Malda districts of West Bengal. Published in National Seminar on Biodiversity and Sustainability vis-à-vis Economic Development in the Northern Parts of West Bengal. RSM Raiganj, Uttar Dinajpur, West Bengal, India, August 26-27, 89.

(C) Books/Monographs/Edited Books

- Ajai Singh. 2012. Introduction of Drip Irrigation, N.D. Publishers, New Delhi, India
- Ajai Singh, Mohd. Imtiyaz. 2013. Hydrological modelling using process based and data driven models. Lambert Academy Publishing, Germany, pp: 269.
- Ajai Singh, R. P. Singh, 2013. Finite Element Analysis and Optimal Design of Drip Irrigation Sub-main. Lambert Academy Publishing, Germany, pp: 82.
- Ajai Singh, Ray, A. K., 2004. Rain Water Harvesting in North Bengal. Uttar Banga Krishi Viswavidyalaya, Pundibari, Coochbehar.

(D) Chapter(s) in Books

- Ajai Singh. 2012. Biodiesel plantations for livelihoods improvement and environmental protection.(ed) S. Chakravarty, G. Shukla, A.N.Dey. In: Tree-borne Oilseeds Species, Lambert Academy Publishing, Germany, pp: 82-96.

- Ajai Singh.2015. Economic Returns for Drip Irrigated Tomato. In 'Research Advances in Sustainable Micro Irrigation: Applications of Furrow and Micro Irrigation in Arid and Semi-Arid Regions. Ed. Megh R. Goyal. Apple Academic Press,USA

(E) Impact Factor – Range and Average

Range 0 to 2.822 Average = 0.60

(F) Citation Index – Range and Average

0-143

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

SCOPUS, SCI, SSCI

(H) h-index / i10-index: not known

NAME: Dr. H. P. Singh, Professor

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

11

(B) Papers presented in National/International Conferences/Seminars/etc.

12

(C) Books/Monographs/Edited Books Nil

(D) Chapter(s) in Books. Nil

(E) Impact Factor – Range and Average

Range 0 to 2.5 Average = 0.50

(F) Citation Index – Range and Average

Not known

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

(H) h-index / i10-index: not known

Name: DR. P.K PARHI, Assistant Professor

(A) Research Papers in Peer Reviewed/Indexed National/International Journals:

(i) 5 nos in international journals

(B) Papers presented in National/International Conferences/Seminars/etc. (Full length papers only)

(ii) 3 nos in international conferences

(iii) 1 no in national conferences

(C) Books/Monographs/Edited Books: Nil

(D) Chapter(s) in Books: Nil

(E) Impact Factor – Range and Average

(i) Journal of Water Resources and Protection: The Impact Factor (IF) is 0.85 based on the statistics from Google Scholar.

(ii) International Journal of Agricultural Science: Impact Factor 1.3905: H5 Index: 3.0

(iii) Open Journal of Modern Hydrology: Impact Factor (IF) is 0.60 based on the statistics from Google Scholar

Some other journals do not have impact factor

(F) Citation Index – Range and Average:

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(i) JWARP is indexed by CABI, which is one of the 9 databases in the "Web of Science"

(ii) International Journal of Agricultural Science is indexed in Citefactor, Index Copernicus, WorldCat etc

(iii) Journal of The Institution of Engineers (India) is indexed in Google Scholar, OCLC

(iv) Open Journal of Modern Hydrology is indexed in Google Scholar and several other databases.

(H) h-index / i10-index:

SJR: SNIP:

Name: Dr. Vinod Kumar Tripathi

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

Nos. 09

13. Performance of different filter combinations with surface and subsurface drip irrigation systems for utilizing municipal wastewater. (2014) *Irrigation Science*, 32,5, 379-391. DOI 10.1007/s00271-014-0436-2. (*Impact Factor 2.843*).
14. Sediment yield index mapping and prioritization of Madia sub watershed, Sagar district of Madhya Pradesh (India). (2014) *Arabian Journal of Geosciences*. Vol. 7: 3131-3145. DOI 10.1007/s12517-013-1007-1. (*Impact Factor 1.152*).
15. Comparative evaluation of horizontal accuracy of elevations of selected ground control points from ASTER and SRTM DEM with respect to CARTOSAT-1 DEM: a case study of Shahjahanpur district, Uttar Pradesh, India, (2012). *Geocarto International*, DOI: 10.1080/10106049.2012.724453. (*Impact Factor 0.897*).
16. Hydro-morphometrical Analyses of Sub-Himalyan region in relation to small hydroelectric power. (2013) *Arabian Journal of Geosciences*, Vol. 6, No. 8, pp. 2889-2899. DOI 10.1007/s12517-012-0586-6. (*Impact Factor 1.152*).
17. Spatial Variability of Ground Water Quality in Mathura District (Uttar Pradesh, India) with Geostatistical Method. (2012) *International Journal of Remote Sensing Applications*, vol. 2, No. 1, pp.1-9. (*Impact Factor 0*).
18. Microorganism dynamics in soil under drip irrigation system with municipal wastewater. (2012) *Journal of Soil and water Conservation*, Vol. 11, No.1, pp. 13-18. (*Impact Factor 0*).
19. Hydraulic performance of drip irrigation system with municipal wastewater. (2011) *Journal of Agricultural Engineering*, vol.48, No.2, pp. 15-22. (*Impact Factor 0*).
20. Spatial variability of satellite derived rainfall erosivity factors (R-factors) for a watershed near Allahabad. (2011) *Journal of Agricultural Physics*, vol. 11, pp.71-78. (*Impact Factor 0*).
21. Biotic and abiotic processes as a carbon sequestration Strategy. (2010) *Journal of Environmental Research and Development*, vol.5, no. 1, pp. 240-251. (*Impact Factor 0*).

(B) Papers presented in National/International Conferences/Seminars/etc.

Nos. 10

1. Flood Management Planning in the Mahanadi River Basin, Odisha. Two days National Conference on Water, Environment & Society, held at Hyderabad, India from 30th June to 1st July, 2014 organized by Centre for Water

- Resources, Institute of Science & Technology, JNTU, Hyderabad. BS publications. ISBN: 978-93-83635-13-9. pp 219-222.
2. The standard precipitation index analysis for drought assessment in Indian agro-climate regions, using GIS and remote sensing data. Two days National Conference on Water, Environment & Society, held at Hyderabad, India from 30th June to 1st July, 2014 organized by Centre for Water Resources, Institute of Science & Technology, JNTU, Hyderabad. BS publications. ISBN: 978-93-83635-13-9. pp. 223-232.
 3. Effect of Watershed on production and Quality of Cauliflower. 47th Annual Convention of ISAE and International Symposium on Bio-Energy-Challenges and opportunities. January 28-30,2013,Hyderabad, India
 4. Hydraulic performance of emitters under wastewater with combined application of filtration and flushing. Souvenir of the 46th Annual convention of ISAE and International Symposium on Grain Storage, during 27-29, February 2012, at G.B. Pant University of Agriculture & Technology, Pantnagar, India. Article no. SWE-2012-MIS-6.19, pp. 281.
 5. Dynamics of microorganisms under micro irrigation system with municipal wastewater. Souvenir of the 45th Annual convention of ISAE and International Symposium on water for agriculture, during 17-19, January 2011, at Dr. P.D.K.V. Campus, Nagpur, India. Article no. MIS-6.5, pp. 95
 6. Municipal Wastewater – A potential source for irrigation in water scarce areas. Proc. of 5th Asian Regional Conference, 6-11, December 2009, New Delhi, India.
 7. Sediment Yield modelling of watershed using remote sensing and GIS. Proceedings of National Conference on Hydraulic and Water Resources (Hydro-2012), IIT, Bombay, India, pp 585-594.
 8. Floods in Mahanadi River Basin, Odisha (India), A Critical Riview. Published in the Proceedings of India Water Week, 2012, PP 170-171, Water Energy and Food Security: Call for Solution (10–14 April, 2012), Organized by Ministry of Water Resources, Government of India at Bigyan Bhawan, New Delhi.
 9. Effect of filtration and flushing to control emitter clogging under municipal wastewater. National seminar on water use in agriculture; challenges ahead organized by Orissa chapter of Indian Society of water management at Directorate of water management, Bhubaneswar. Article ID Th01/107; pp 12.
 10. Indigenous technological knowledge to cope with soil and water conservation problems in India”. Indian Flokloor Congress, held at Central University of Jharkhand, Ranchi. December 12-14, 2011.

(C) Books/Monographs/Edited Books

Nil

(D) Chapter(s) in Books

No. 03

1. Biometric response of eggplant under sustainable micro irrigation with municipal wastewater. (2014) Book Chapter 16, Sustainable Practices in Surface and Subsurface Micro Irrigation. Apple Academic Press, USA. ISBN: 9781771880176.

2. Quality of Municipal Wastewater for Sustainable Micro Irrigation. (2014) Book Chapter 07, Sustainable Micro Irrigation Management for Trees and Vines. Apple Academic Press, USA. ISBN: 978-1-77188-025-1.
3. Evaluation of sustainable micro irrigation with municipal wastewater. (2014) book chapter 08, sustainable micro irrigation management for trees and vines. Apple academic press, usa. Isbn: 978-1-77188-025-1

(E) Impact Factor – Range and Average

Range 0.0 to 2.843

Average 0.672

(F) Citation Index – Range and Average:

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index: SJR:SNIP: Not Known.

Name: Er. Pratibha Warwade, Assistant Professor

(A) Research Papers in Peer Reviewed/Indexed National/International Journals - 2

(B) Papers presented in National/International Conferences/Seminars/etc-3

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

(E) Impact Factor – Range and Average – No impact factor (NAAS rating 6-6.5)

(F) Citation Index – Range and Average

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index: 4

SJR: 0,105 SNIP:

Name: Er. Birendra Bharti, Assistant Professor

(A) Research Papers in Peer Reviewed/Indexed National/International Journals - 2

**(B) Papers presented in National/International Conferences/Seminars/etc-
6**

(C) Books/Monographs/Edited Books: None

(D) Chapter(s) in Books: None

(E) Impact Factor – Range and Average – Nil

(F) Citation Index – Range and Average

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index: 4/3

SJR: not known

SNIP:

CENTRE FOR LAND RESOURCE MANAGEMENT

1. Name of the Centre: Centre for Land Resource Management

2. Year of establishment: 2012

3. Is the Centre part of a School/Faculty of the University? :
YES, School of Natural Resource Management

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

Following programmes were conceived by the Centre:

- i. Ph. D. in Geoinformatics (since 2013)
- ii. M. Sc. in Geoinformatics (since 2012)
- iii. Integrated M.Tech. in Geoinformatics (since 2013)
- iv. Diploma in Geoinformatics (offered only during 2012)
- v. Certificate in Geoinformatics (offered in 2012 & 13 but no application received)

5. Interdisciplinary Programmes/ Courses and Centres involved:

In an attempt to give inter-disciplinary options the Centre offers the following courses:

Course	Level	Centre	Teacher
Fundamentals of Geospatial Technology & its Application	Integrated M.Sc. /Integrated M.Tech.	To all Centres/Schools of this University	Dr. L.K. Sharma; Dr. S.K. Singh; Dr. A. Kumar; Dr. S. Kanga & Dr. K. Lal
Geoinformatics in Ecology & Forestry	Do	Do	Dr. L.K. Sharma & Dr. K. Lal
Geoinformatics in Urban & Regional Planning	Do	Do	Dr. A. Kumar & Dr. S. Kanga
Disaster Management	Do	Do	Sri K. Jalem & Dr. K. Lal
Environmental Studies (During Even Semester 2012)	UG/ PG	MBA, Mass Com., ICS, Eng.	Dr. S.K. Singh; Dr. A. Kumar, Dr. S. Kanga & Mr. A. Chakraborty
Courses pertaining to Remote Sensing, GIS, GPS and its applications offered by IIRS, ISRO through Edusat Programmes	Certificate	Open to All	Prof. A.C. Pandey; Dr. L.K. Sharma; Dr. S. Kanga & Dr. S.K. Singh

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

The Centre is facilitating different ongoing Edusat Programmes offered by IIRS, ISRO (Under ISRO Outreach Programme).

7. Details of Programmes discontinued, if any, with reasons:

The programs, Diploma in Geoinformatics was offered only during 2012 whereas Certificate in Geoinformatics was offered in 2012 & 13 but no application was received. Later these programs were temporality discontinued due initiation of M.Sc., Int. M.Tech. and PhD. courses in the Centre and on account of limited faculty and Infrastructure facilities.

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

The Centre is following Semester based examination system as followed in CUJ.

9. Participation of the Centre in the courses offered by other Centres

Course	Level	Centre	Teacher
Research Methodology & Project Management	Ph.D.	Centre for Environmental Sciences	Dr. K. Lal & Dr. A. Kumar
Physical Geography	B.A.B.Ed.	Centre for Education	Dr. K. Lal

10. Number of teaching posts sanctioned and filled: (Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	Direct recruitment
Associate Professor	02	00	-Nil-
Assistant Professor	04	04	Direct recruitment

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Enrolled/Guided in Last 4 years
Prof. A.C. Pandey	Ph.D.	Professor	Water resources & glaciers studies	19	Guided:03 Enrolled:01
Dr. L.K. Sharma	M.Tech., Ph.D.	Assistant Professor	Environmental Remote Sensing	10	Guided:01 Enrolled:03
Dr. Kanhaiya Lal	Ph.D.	Assistant Professor	Land Degradation	05	NIL
Dr. Amit Kumar	Ph.D.	Assistant Professor	Urban Environment Management	08	NIL
Mr. Kiran Jalem	M.Tech.	Assistant Professor	Disaster Management	15	NIL
Dr. Suraj Kumar Singh	Ph.D.	Assistant Professor (on contract)	Drought & Flood Forecasting	06	NIL
Dr. Shruti Kanga	Ph.D.	Assistant Professor (on contract)	Forest Management	06	NIL

**12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:
Nil**

**13. Percentage of classes taken by temporary faculty:
(Programme-Wise Information)**

Sl.no.	Courses	Percentage of classes
1.	Ph.D.	14.3%
2.	Integrated M.Tech. in Geoinformatics	14.3%
3.	M.Sc. in Geoinformatics	14.3%
4.	Diploma in Geoinformatics	20%

14. Programme-Wise Student Teacher Ratio:

Sl.no.	Courses	Student Teacher Ratio
1.	Ph.D.	03:02
2.	Integrated M.Tech. in Geoinformatics	80:07
3.	M.Sc. in Geoinformatics	40:07
4.	Diploma in Geoinformatics	20:07

15. Number of academic support staff (technical) and administrative staff sanctioned and filled:

Position	Sanctioned	Filled
MTS	-	Nil
Lab-in-charge	-	Nil

16. Research thrust areas as recognized by major funding agencies:

Water resource management, Climate change, Disaster management

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Number of faculties: 02 (Two)

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
International Funding:					
Dr. Amit Kumar & Prof. A.C. Pandey	<i>Multi-purpose R&D pilot projects for assessing the feasibility of cost effective and sustainable technologies for</i>	US\$ 15,536 (ca. INR 9.63 Lakhs)	One Year (March 2014-April 2015)	Approval on 23 rd April 2014. Current Status:	Columbia Water Center, Columbia University, New York

	<i>drinking water storage and distribution in rural areas of Jharkhand: A pilot study at Sanga Village</i>			<i>Ongoing</i>	
National Funding:					
<ul style="list-style-type: none"> MoEF, GoI in principally approved a research project with financial assistance of Rs. 38,44,800/- to Prof. A.C. Pandey for the project entitled '<i>Implication of changing climate on flood severity in Bihar flood plains using Geoinformatics: A case study of Kosi Basin</i>'. 					

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: Nil

(b) International Collaboration: Multi-purpose R&D pilot projects for assessing the feasibility of cost effective and sustainable technologies for drinking water storage and distribution in rural areas of Jharkhand: A pilot study at Sanga Village in collaboration with Drinking Water & Sanitation Department (DWSD), Govt. of Jharkhand and Columbia University, USA.

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil (Total Grants Received)

20. Research facility/ Centre with: N/A

(a) State Recognition:

(b) National Recognition:

(c) International Recognition:

21. Special research laboratories sponsored by/ created by industry or corporate bodies: N/A

22. Publications in Last Five Years:

Total number: 83 (International: 57 and national: 26)

Name of Teacher	No. of Publications	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Dr. A.C.Pandey	33	For more details, Please see Annexure - I
Dr.L.K.Sharma	20	
Dr.K.Lal	04	
Dr.A.Kumar	07	
Mr.K.Jalem	02	
Dr.S.K.Singh	09	
Dr.S.Kanga	08	

23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Dr. Amit Kumar & Prof. A.C. Pandey	<i>Multi-purpose R&D pilot projects for assessing the feasibility of cost effective and sustainable technologies for drinking water storage and distribution in rural areas of Jharkhand: A pilot study at Sanga Village</i>	US\$ 15,536 (ca. INR 9.63 Lakhs)	One Year (March 2014- April 2015)	Approval on 23 rd April 2014. Current Status: <i>Ongoing</i>
<i>Total overhead cost charged:</i>		US\$ 1437 (Rs. 86,240/-)		
<i>Consultancy Fee charged:</i>		US\$ 4258 (Rs. 255,500/-)		

25. Faculty selected nationally/ internationally to visit other laboratories / institutions / industries in India and abroad: Nil**26. Faculty serving in:**

- (a) National Committees
- (b) International Committees
- (c) Editorial Boards
- (d) Any Other Please Specify

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/ Refresher courses/ Workshops/ training programmes/ others)

- (i) **S. Kanga** participated in six-day training programme on ‘*Geomatics: Technology and Applications*’ to be organized at CEPT University, Ahmedabad during 3-8 December 2012.
- (ii) **L. K. Sharma** presented a paper in *Indo-UK Scientific Seminar* on “Quantifying terrestrial carbon uptake from earth observation data: challenges and opportunities”, jointly supported by Department of Science & Technology, Government of India and Royal Society, London. Organized by IIT Kharagpur, 19-21 December 2012.
- (iii) **K. Jalem** attended National Workshop on Radiation - A Power tool for Research in Physical, Chemical and Life Sciences from February

13 - 15 2013 at CUJ, Ranchi, sponsored by UGC-DAE CSR Kolkata Centre

- (iv) Four faculties from the Centre (**Kanhaiya Lal, S. K. Singh, K. Jalem and S. Kanga**) have successfully completed ISRO EDUSAT Outreach Certificate Course on "Geo Web Services - Technology & Applications" organized during 11th February to 15th March, 2013.
- (v) **A. Kumar** attended UGC sponsored 84th Orientation Course at Academic Staff College, Jawaharlal Nehru University (JNU), New Delhi from 04th to 28th March, 2013.
- (vi) **Dr. L.K. Sharma** presented a paper in International Seminar on 'Climate Change Impacts and Societal Adaptation', November 6th -08th 2013, at Central University of Rajasthan, Ajmer (India) sponsored by CURAJ and SMHI, Sweden.
- (vii) **Mr. K. Jalem** contributed an abstract in '*Indian Society of Geomatics National Symposium-2013*', organized at Andhra University, Visakhapatnam from 4-6 December 2013.
- (viii) **Mr. Kiran Jalem** attended 'First Session of National Platform for Disaster Risk Reduction (NPDRR)' organized by Ministry of Home Affairs, Government of India from 13-14 May 2013, VigyanBhawan, New Delhi.
- (ix) **Mr. KiranJalem** attended UGC sponsored Orientation Course at Academic Staff College, Andra University, Vishakhapatnam from 04th July to 20th August, 2013.
- (x) **Dr. L.K. Sharma** completed UGC sponsored 77th **Orientation course** with "A" grade, at UGC Academic Staff College, Ranchi University, Ranchi during 10th March-06th April, 2014.

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects

Sl.no.	Courses	Percentage of Students
1.	M.Sc. in Geoinformatics (2012-14)	37%
2.	M.Sc. in Geoinformatics (2013-15)	100%
3.	Diploma in Geoinformatics (2012-13)	100%

(b) Percentage of students doing projects in collaboration with other universities / industry / institute

Sl.no.	Courses	Percentage of Students
1.	M.Sc. in Geoinformatics (2012-14)	37%
2.	M.Sc. in Geoinformatics (2013-15)	0%
3.	Diploma in Geoinformatics	0%

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

- i. Mr. Saurabh Kumar Gupta, Ph.D. student, has qualified National Eligibility Test (NET) through June, 2014 examination conducted by the University Grants Commission (UGC).
- ii. A team of three M.Tech. Student of the Centre were participated in “Great Step 2014”, organized by Indian Institute of Technology, Kharagpur, in October, 2014 and bagged third prize in the competition.

30. Seminars/ Conferences/ Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

- i. Centre for Land Resource Management (CLRM) organized **01 day Seminar** programme on “*Concept of Microvita*” in Central University of Jharkhand on **28th November, 2014**
- ii. Central Ground Water Board, Govt. of India has organized a **05 days Seminar-cum-training programme** during 11 to 15 March 2014 with Centre for Land Resource Management (CLRM) at CUJ Campus, in which 35 participants from various national organizations attended the training programme.
- iii. Organized **Seminar-cum-Poster Exhibition** on the eve of **25th World Ozone Day** on the theme “*Protecting our Atmosphere for Generations to Come*” in Central University of Jharkhand in collaboration with Centre for Environmental Sciences on 16th September, 2012.

31. Code of ethics for research followed by the Centre:

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
M.Tech. Geoinformatics (Session: 2013-2018, Five Years Integrated Programme)		28	9		
M.Sc. Geoinformatics (Session: 2012-2014, Two Years Programme)		8	3	100	100
Ph.D. (Batch: 2013)		1	1		
Diploma (2012-13)		02	01	100	100
M.Tech. Geoinformatics (Session: 2014-2019, Five Years Integrated Programme)		30	10		
M.Sc. Geoinformatics (Session: 2013-2015, Two		12	4		

Years Programme)					
M.Sc. Geoinformatics (Session: 2014-2016, Two Years Programme)		03	02		
Ph.D. (Batch: 2014)		1	0		

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
M.Tech. Geoinformatics (Session: 2012-2017, Five Years Integrated Programme)	Nil	46	54	Nil
M.Sc. Geoinformatics (Session: 2012-2014, Two Years Programme)	Nil	27	73	Nil
Ph.D. (Batch: 2013)	Nil	50	50	Nil
Diploma (2012-13)	Nil	100	Nil	Nil
M.Tech. Geoinformatics (Session: 2013-2018, Five Years Integrated Programme)	Nil			
M.Sc. Geoinformatics (Session: 2013-2015, Two Years Programme)	Nil	31	69	Nil
M.Sc. Geoinformatics (Session: 2014-2016, Two Years Programme)	Nil			
Ph.D. (Batch: 2014)	Nil	100	Nil	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): 01 (UGC NET)

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	NA
PG to M.Phil/Ph.D	Nil
Ph.D to Post-Doctoral	Nil
Employed through campus selection	00
Employed through other than campus recruitment	08
Self-employed /entrepreneurs	01

25. Diversity of staff:

Percentage of staff from the State	28.5% (01 Regular + 01 Contract = 02 out of 07)
Percentage of staff from other States	57.1% (04 Regular + 01 Contract = 05 out of 07)
Percentage of staff from other countries	0%
Percentage of staff who are graduates of the same university	0%
Percentage of staff who are graduates from other universities within the state	14.2% (01 Contract)
Percentage of staff who are graduates from universities from other states	85.7% (05 Regular + 01 Contract = 06)
Percentage of staff who are graduates from other universities outside the country	0%

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: 03 (three)

38. Present details about infrastructural facilities:

Library	Central Library
Internet facility for staff & students	Available
Total number of class rooms	03
Class rooms with ICT facility	01
Student's laboratories	03
Research Laboratories	Nil
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) From other institutions/universities:

Sl. No.	Name of Students	Area of Research	of	University last attended
1.	BinitaKumari	Ecology	&	Central University of

		Forestry	Rajasthan
2.	SauravKumar Gupta	Ecology & Forestry	Ranchi University
3.	Tausheef Ahmed	Water resource	BIT, Mesra

40. Number of students of the centre getting financial assistance from the university (2-5 per year):

- i. 03 PhD Scholars in the Centre @ Rs.8000/- per month
- ii. 10 PG and 02 UG students participated in Summer internship during May- June 2013 organized by the Centre and earned @ Rs. 6666/-.

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:

In the Centre initially Certificate and Diploma courses in Geoinformatics was perceived. Looking into the low response and demand of courses like M.Sc. and M.Tech. in the industry, Government, R&D institute as well as Universities abroad 2 years M.Sc. and 5 year Int. M.Tech. courses were initiated with the approval UGC. Faculty recruitment was accordingly planned to fulfill need of these two courses.

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

It is utilized in the form of syllabus revision and by introducing new papers and eliminating less informative papers

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Centre utilizes such evaluation by informing the faculty about improving their teaching/communication abilities, introduction of new papers of importance and demand as well field based practical and theoretical learning process.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? We are in process of initiating it.

43. List the distinguished alumni of the centre (maximum 10): 02

- i. Reshma Kuamri, working at IISER, Kolkata
- ii. KamleshMohanta working in NGO, Bhuwaneswer

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

- i. 56 students of Int. M.Tech& M.Sc. visited Survey of India, Ranchi Campus for an exposure of Photogrammetry and surveying in the month of November 2014.
- ii. Centre organized and successfully completed 13th ISRO EDUSAT outreach Certificate course on ‘Basics of Remote Sensing, Geographic

- Information System (GIS) and Global Navigation Satellite System (GNSS)' during August 04 – November 14, 2014.
- iii. Centre organized One day **academic field tour to 'Tyma Watershed'** in Gola Block, Ranchi, for the M.Sc. and M.Tech. Integrated (Geoinformatics) students to have an exposure to watershed management techniques adopted by people in the region in April 2014.
 - iv. Central Ground Water Board, Govt. of India has organized a **05 days training programme** during 11 to 15 March 2014 with Centre for Land Resource Management (CLRM) at CUJ Campus, in which 35 participants from various national organizations attended the training programme.
 - v. Students completed 12th ISRO EDUSAT outreach Certificate course on 'Microwave Remote Sensing and its Application' during 3rd Feb. to 30th March, 2014.
 - vi. 04 students had carried their 6 month dissertation work in AGiSAC, Shimla, 02 students at Indian Institute of Remote Sensing (IIRS), Dehradun, one student at Indian Institute of Space Science and Technology (IISST), Trivandrum and One student at Jharkhand State Watershed Mission (JSWM), Ranchi during JAN. – MAY 2014.
 - vii. Five students (02 Ph.D. students (2013) and 03 M.Sc. IV Semester students (2012-14)) attended One week Training on "Aquifer Management and local ground water issues" organized by Central Ground Water Board, Ranchi during 11th to 15th March 2014.
 - viii. One student (M.Sc. Geoinformatics) successfully completed internship at National Institute of Disaster Management (NIDM), New Delhi during summer vacation from 19th May 2013 to 23rd June 2013.
 - ix. 12 students attended in Summer Internship on 'Rainwater Harvesting during 22nd May to 30th June 2013 sponsored by Centre for International Project Trust (India Office of CWC), Columbia Water Centre (CWC), Columbia University, New York at CUJ, Ranchi.
 - x. Mr. Saurabh Kumar Gupta, Ph.D. student, has qualified National Eligibility Test (NET) through June, 2014 examination conducted by the University Grants Commission(UGC).
 - xi. Ms. Binita Kumari, Ph.D. student, has successfully completed course on "Geostatistics in Ecological Modelling" from Indian Institute of Technology, Kharagpur.
 - xii. Ms. Binita Kumari, Ph.D. student, has successfully completed a course on "Spatial Ecology and Remote Sensing", scheduled to be held in December, 2014, from the same organization.
 - xiii. A team of three M.Tech. Student of the Centre were participated in "Great Step 2014", organized by Indian Institute of Technology, Kharagpur, in October, 2014 and bagged third prize in the competition.
 - xiv. Three proposals of M.Tech. Students were shortlisted for national sponsored project work on sustainable water management conducted

by TERI, New Delhi. Total 15 students and 03 faculty mentors are involved in this programme.

- xv. Student participated in **ISRO EDUSAT Outreach Certificate Course** on "Geo Web Services- Technology & Applications" (Coordinator: L. K. Sharma) organized during 11th February to 15th March, 2013
- xvi. All the students of M.Sc. and Diploma (Geoinformatics) in a Seminar-cum-Poster Exhibition on the eve of 25th *World Ozone Day* on the theme "**Protecting our Atmosphere for Generations to Come**" in Central University of Jharkhand in collaboration with Centre for Environmental Sciences on 16th September, 2012.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

- i. Laboratory classes
- ii. Compulsory field tour of not less than two week covering important practical/applied aspects of the discipline.
- iii. Visiting paramount institutions working in broader arena of the discipline at regional and national level.
- iv. Allowing students to participate and interact with local community through different socio-cultural programs/agri-fest, etc.
- v. Tutorial presentation by students
- vi. Term Paper/Semester Assignment with respect to each paper of the semester.
- vii. Use of audio-visual devices as per the requirements of a lecture.
- viii. Students are also promoted by the Centre to participate in different academic activities and competitions organized by this university or any other university.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

- i. The Centre is organizing three mid-semester examinations to cover 30 percent of the total score in each paper as a part of internal evaluation. These mid-semester examinations will have justifiable spread to cover entire syllabus spanned over the time of each academic semester.
- ii. Each student is also separately assessed in each semester internally with respect to each paper through a Term Paper/ Semester Assignment covering 10 percent of the total score of the paper. A student is suppose to present and defend their term paper at the end of the semester.
- iii. At the end of the semester the Centre/University organizes an End Semester Examination covering 60 per cent of the total score.
- iv. Each students are allowed to see their answer script once evaluation is over and they are also given sufficient time to interact with corresponding teacher to learn more about their strength and weaknesses and ways to further improvement in their knowledge base.

47. Highlight the participation of students and faculty in extension activities:

- i. Dr. Amit Kumar and Prof. A. C. Pandey are participating in pilot project funded by Coloumbia University to facilitate safe drinking water to local community using locally available water resources.
- ii. The Centre is facilitating different short-term courses of Indian Institute of Remote Sensing through Edusat Outreach Program.
- iii. The Centre/University facilitates and promotes students community in general to voluntarily participate in education propagation of local children.

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

- i. ICMOD: Study on Himalayan glacier in Jammu Kashmir region was done under NASA Servir Fellowship where **Prof. A.C. Pandey** was selected as Mentor. The ICMOD, Kathmandu provided the Basic Training for the study and results were presented at the workshop held at Washington DC, USA during May 2014.
- ii. **b.**Centre collaborated with Columbia Water Centre (CWC), Columbia University, New York(2014).CWC subawarded a R&D project to the Dr. A. Kumar and Prof. A.C. Pandey wherein collaboration pertaining to knowledge sharing under R&D project with CWC & DWSD is being done. The collaboration aims at in exploring cost effective and feasible solutions to the use of solar powered and low cost piped drinking water supply, rainwater harvesting and storage, and reclamation and reuse of water in abandoned mines/ quarries in Jharkhand.
- iii. A one day Seminar on “Concepts of Microvita - A new Science of Reality” by Dr. H.J. Rudolph, Founding Member & Chairman, Microvita Research Institute, Germany was organized by the Centre on 28th November, 2014.
- iv. Centre organized One day **academic field tour to ‘Tyma Watershed’** in Gola Block, Ranchi, for the M.Sc. and M.Tech. Integrated (Geoinformatics) students to have an exposure to watershed management techniques adopted by people in the region in April 2014.
- v. Central Ground Water Board, Govt. of India has organized a **05 days training programme** during 11 to 15 March 2014 with Centre for Land Resource Management (CLRM) at CUJ Campus, in which 35 participants from various national organizations attended the training programme.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: Not graded/accredited by any organization till date.

50. Briefly highlight the contributions of the Centre in generating new knowledge,

The Centre through its various academic courses is generating theoretical as well as applied knowledge in the emerging areas of Geoinformatics.

Further with its ISRO outreach program it imparts online/classroom based knowledge in various areas of geoinformatics to all the students of CUJ admitted in this course.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Centre:

(A) Strengths:

- i. Faculty with different specialization broadly in the area of Geoinformatics
- ii. Faculty with focus on applied research
- iii. Dominantly Young faculty
- iv. Good student strength of about 100
- v. Modification in the syllabus as per need assessment from student, industry and Statuary bodies

(B) Weaknesses:

- i. Equipments for practical classes and research purpose
- ii. Lab infrastructure and present space for different Geoinformatics Labs
- iii. Accommodating students with batch strength of 40 in the labs.
- iv. Students with various academic backgrounds
- v. Less number of faculty in the Centre

(C) Opportunities:

- i. New and immerging area of study with possibilities of expansion
- ii. Interdisciplinary nature of Geoinformatics field
- iii. Financial support by Govt. of India programs through DST, UGC, AICTE etc
- iv. Incorporating students with ISRO projects of national and international level
- v. Possibilities of Academic exchange programs with other universities and R&D institutions.

(D) Challenges:

- i. Running the course with inadequate number of faculty
- ii. Inadequate equipment, hardware & software for student's use
- iii. Performing practical's with feeble lab infrastructure
- iv. Taking theory classes in big lecture rooms with no audio-visual facility
- v. Running Labs and additional online program with no lab. attendant or technical staff resepectively

52. Future plans of the Centre:

- i. The Centre will propose more courses of post-graduation level encompassing the broader objectives of the School of Natural Resource Management.
- ii. The Centre will add more instruments and facility to the existing laboratories. Further, the Centre may open some separate and new laboratories specifically devoted to surveying and digital cartography, mobile mapping, soil and water analysis, etc.
- iii. The Centre is further planning to work together with leading universities/institutions/organizations of national and international significance in areas of common interests.
- iv. To have a close industrial linkage with the courses taught, the Centre will continue to invite eminent personalities from different industrial setups and facilitate their interaction with faculties and students.
- v. The Centre will continue its full support to all students participating in leading national level research examinations viz. UGC-CSIR NET/JRF; GATE, etc.
- vi. The Centre has an ambitious plan to setup a Centre Level Library facility fully devoted to research and teaching requirements of the Centre.

ANNEXURE-I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

NAME: PROF. ARVIND CHNADRA PANDEY

(A) Research Papers in Peer Reviewed/ Indexed National/ International Journals:

1. **A.C. Pandey** and A. Kumar (2014). Spatio-temporal variability of surface water quality of fresh water resources in Ranchi Urban Agglomeration, India using geospatial Techniques. *Applied Water Science*, Springer Publication. DOI: 10.1007/s13201-014-0165-y (**In press**).
2. S.K. Singh, **A.C. Pandey**, V.S. Rathore and M.S. Nathawat (2014) Evaluating factors responsible for contrastic signature of wasteland development in northern & southern Ganga plains (Bihar State, India) with focus on waterlogging. *Arabian Journal of Geosciences*. Vol. 7, Issue 10, pp. 4175-4190. (**Impact factor: 1.152**)
3. S.K. Singh and **A.C. Pandey** (2014) Geomorphology and the controls of geohydrology on waterlogging in Gangetic Plains, North Bihar, India. *Environmental Earth Sciences*. Vol. 71, Issue. 4, pp. 1561- 1579. (**Impact factor: 1.572**)
4. S. Ghosh, **A.C. Pandey** and M.S. Nathawat (2014). Mapping of debris-covered glaciers in parts of the Greater Himalaya Range, Ladakh,

- western Himalaya using Remote Sensing and GIS. *Journal of Applied Remote Sensing*, 8(1), 083579
5. S. Ghosh, **A.C. Pandey** and M.S. Nathawat, I.M. Bahuguna and Ajai (2014). Contrasting signals of glacier changes in Zaskar valley, Jammu & Kashmir, India using Remote Sensing and GIS. *Journal of the Indian Society of Remote Sensing*, Springer, (in Press)
 6. S. Shekhar and **A.C. Pandey** (2014). Delineation of groundwater potential zone in hard rock terrain of India using remote sensing, geographical information system (GIS) and analytic hierarchy process (AHP) techniques, *Geocarto International*, <http://dx.doi.org/10.1080/10106049.2014.894584>. (in Press)
 7. S. Shekhar, **A.C. Pandey**, A.S. Tirkey (2014). A GIS-based DRASTIC model for assessing groundwater vulnerability in hard rock granitic aquifer. *Arab Journal of Geosciences*, DOI 10.1007/s12517-014-1285-2 (in Press)
 8. **A.C. Pandey** and Akshay Kumar (2013) Analyzing topographical changes in open cast coal mining region of Patratu, Jharkhand using CARTOSAT- I Stereopair satellite images, *Geocarto International*, 29(7):731-744. DOI: 10.1080/10106049.2013.838309.
 9. A.S. Tirkey, **A. C. Pandey** and M.S. Nathawat (2013). Use of High Resolution Satellite Data, GIS and NRCS CN Technique for Estimation of Rainfall Induced Runoff in Small Catchment of Jharkhand India. *Geocarto International*, 29(7):778-791. Taylor and Francis. DOI: 10.1080/10106049.2013.841773.
 10. Fayma Mushtaq and **A. C. Pandey** (2013) Assessment of land use/land cover dynamics vis-à-vis hydrometeorological variability in Wular Lake environs, Kashmir Valley, India using multitemporal satellite data. *Arab Journal of Geosciences*, DOI 10.1007/s12517-013-1092-1.
 11. Swagata Ghosh and **A.C. Pandey** (2013). Estimating the Variation in Glacier Area over the Last 4 Decade and Recent Mass Balance Fluctuations over the Pensilungpa Glacier, J&K, India. *Global perspective in Geography*, 1(4): 58-65, ISSN: 2328-2320.
 12. A. Kumar and **A.C. Pandey** (2013) Spatio-Temporal Assessment of Urban Environmental Conditions in Ranchi Township using Remote Sensing and GIS Techniques. *International Journal of Urban Sciences* 17(1):117-141. Taylor & Francis; DOI:10.1080/12265934.2013.766501; ISSN: 1226-5934 (Print), 2161-6779 (Online). Citation: 1
 13. Akshay Kumar and **A.C. Pandey** (2013). Evaluating Impact of Coal Mining Activity on Land use/land cover Using Temporal Satellite Images in South Karanpura Coalfields and Environs, Jharkhand State, India, *International Journal of Advanced Remote Sensing and GIS*, 2(1): 183-197.
 14. A. S. Tirkey, **A.C. Pandey** and M.S. Nathawat (2013). Use of Satellite Data, GIS and RUSLE for Estimation of Average Annual Soil Loss in

- Daltonganj Watershed of Jharkhand (India), *Journal of Remote Sensing Technology*, 1: 20-30.
15. A.S. Tirkey, **A. C. Pandey** and M. S. Nathawat (2012). Groundwater level and rainfall variability trend analysis using GIS in parts of Jharkhand state (India) for sustainable management of water resources. *International Research Journal of Environmental Sciences*, 1, 24-31.
 16. S. Shekhar, **A.C. Pandey** and M.S. Nathawat (2012). Evaluation of Fluoride contamination in groundwater sources in hard rock terrain in Garhwa district, Jharkhand, India. *Int. Journal of Environmental Sciences*, 3(3):1022-1030, DOI: 10.6088/ijes.2012030133010
 17. **A.C. Pandey**, A. Kumar and A.T. Jeyaseelan (2013) Urban Built-up Area Assessment of Ranchi Township using Cartosat-I Stereopairs Satellite Images. *Journal of Indian Society of Remote Sensing* **41**(1):141–155. Springer Publication; DOI 10.1007/s12524-012-0209-4; ISSN: 0255-660X (print); 0974-3006 (electronic); Impact Factor: 0.344; Citation: 3
 18. **A.C. Pandey**, S. Shekhar, M.S. Nathawat. Evaluation of Fluoride Contamination in Groundwater Sources in Palamu District, Jharkhand, India, *Journal of Applied Sciences*, Science Alert. *12*(9): 882-887, 2012, DOI: [10.3923/jas.2012.882.887](https://doi.org/10.3923/jas.2012.882.887)
 19. Swati Pandey, **A.C. Pandey**, Manoj Kumar¹, N.C. Mahanti¹ and M.S. Nathawat (2012). Drought Hazard Assessment Using Geoinformatics over parts of Chotanagpur Plateau region, Jharkhand, India, *Natural Hazards*, DOI: 10.1007/s11069-012-0093-9
 20. **A.C. Pandey**, S.K. Singh, M.S. Nathawat, D. Saha, 2012. Assessment of surface and subsurface waterlogging, water level fluctuations, and lithological variations for evaluating groundwater resources in Ganga Plains. *International Journal of Digital Earth*, pp. 1-21, DOI: 10.1080/17538947.2011.624644.
 21. **A. Kumar**, A.C. Pandey and A.T. Jeyaseelan (2012) Built-up and Vegetation Extraction and Density Mapping using WorldView-II. *Geocarto International*, **27**(7): 557-568. Taylor & Francis; DOI:10.1080/10106049.2012.657695; ISSN: 1010-6049 (Print); 1752-0762 (Online); IF: 0.575; Citation: 4
 22. **A.C. Pandey**, S. Ghosh, M.S.Nathawat and R.K.Tiwari (2011) Area Change and Thickness Variation over Pensilungpa Glacier (J&K) using Remote Sensing. *Journal of the Indian Society of Remote Sensing*, Springer, DOI 10.1007/s12524-011-0134-y.
 23. **A.C. Pandey**, Ghosh, Swagata and Nathawat, M.S. (2011). Evaluating patterns of temporal glacier changes in Greater Himalayan Range, Jammu & Kashmir, India. *Geocarto International*, 26 (4): 321-338. DOI: 10.1080/10106049.2011.554611.
 24. A. Kumar, **A.C. Pandey**, N. Hoda and A.T. Jeyaseelan (2011) Evaluation of Urban Sprawl Pattern in Tribal Dominated Cities of Jharkhand State, India. *International Journal of Remote Sensing* **32**(22):

- 7651-7675. Taylor & Francis; DOI: 10.1080/01431161.2010. 527391; ISSN: 0143-1161 (Print); 1366-5901 (Online); IF: 1.138; Citation: 6
25. A. Kumar, **A.C. Pandey**, Najmul Hoda and A.T. Jeyaseelan (2011) Evaluating the Long-term Urban Expansion of Ranchi Township, India using Geospatial Technology. *Journal of Indian Society of Remote Sensing* **39**(2): 213-224. Springer Publication; DOI: 10.1007/s12524-011-0089-z; ISSN: 0255-660X (print); 0974-3006 (electronic); IF: 0.344; Citation: 5
 26. M.S Nathawat., V.S. Rathore, **A.C Pandey**, S.K. Singh and G. Ravishankar, (2010) Monitoring & analysis of wastelands and its dynamics using multi-resolution and temporal satellite data in part of Indian state of Bihar, *International journal of Geomatics and Geosciences*, 1 (3):297-307.
 27. S. K. Singh, **A.C. Pandey** and M.S.Nathawat (2011) Rainfall variability and Spatio temporal dynamics of flood inundation during the 18th August 2008 Kosi Flood in Bihar, India. *Asian Journal of Earth Sciences*, 4, 9-19
 28. **A.C. Pandey**, Singh S. K., and Nathawat M.S. (2010). Waterlogging and flood hazards vulnerability and risk assessment in Indo- Gangetic plain, *Natural Hazards*, 55: 273-289.
 29. **A.C. Pandey**, Singh S. K. and Nathawat, M.S. (2010). Analyzing the impact of anthropogenic activities on waterlogging dynamics in Indo-Gangetic plains, Northern Bihar, India. *International Journal of Remote Sensing*, 33(1), 135-149.
 30. G. Swagata, **A.C. Pandey** M.S. Nathawat, I.M. Bahuaguna, and Ajai (2011). Evaluating geological and geomorphological control on changes in Higher Himalayan Range, Jammu and Kashmir, India. *Journal of Geomatics*, 5 (2): 79- 84.
 31. **A.C. Pandey**, M.S. Nathawat and S. Ghosh (2012). Glacier Morphometric Control on Glacier area changes in Great Himalayan Range, Jammu & Kashmir, India. *Current Science*, 102(8): 1188:1193.
 32. P.K. Rai, M.S. Nathawat and **A.C. Pandey** (2009). Glacier Domain Mapping through Image Processing Techniques in Doda Valley, Zaskar Basin, Ladhak, J&K. *National Geographic Journal of India*, Vol.55(2):47-52.
 33. P.K. Rai, M.S. Nathawat, **A.C. Pandey** and K.N. Raju (2009). Morphometric Characteristics of Glaciers in Doda Valley, Zaskar basin, J&K. *Trans. Inst. Indian Geographers*, Vol.31 (2):136-.141.

(B) Papers presented in National/International Conferences/Seminars/etc.

(C) Books/Monographs/Edited Books

1. S. Mondal, **A.C. Pandey**, M. kumar and R.D. Garg. (2008). Land use-Land cover assessment and its spatio-temporal dynamics using multi-temporal satellite images in southern part of Lower Garhwal

- Himalayas. 153-171. *In: Geoinformatics for Decentralized Planning and Governance*, Rawat Publishing: Jaipur, 2008,
2. **A.C. Pandey**, (2008). Geoinformatics for Natural Hazard Mapping with Focus on Seismotectonics. A case study from Haryana State, India, 124-137. *In: Geoinformatics for Decentralized Planning and Governance*, Rawat Publications: Jaipur.
 3. **A.C. Pandey**, P.S. Saklani, and C.S. Dubey, (2005). Geological and Morphotectonic Studies Using Satellite Images of Tehri-Uttarkashi district, Lesser Garhwal Himalaya. *In: Himalaya- Geological Aspect*, volume-31:53-171. Satish Serial Publishing House: Delhi,
 4. **A.C. Pandey**, (2005). Waiting for inevitable natural disaster in Lesser Himalayas, Garhwal - A geoinformatics based geoenvironmental perspective on feasibility of Tehri dam. *In: Disaster Management* , 152-160, Narosa Publishing House: Delhi.
 5. *Resource Atlas of Haryana* (2004), **A.C. Pandey (Ed.)**. Published by Azad Hind Publisher: Chandigarh.
 6. *Geoinformatics for Decentralized Planning and Governance* (2008). M.S. Nathawat & **A.C. Pandey (Eds.)**. Rawat Publications: Jaipur, ISBN 81-316-0117-X.

(D) Chapter(s) in Books

(E) Impact Factor: IF range: 19.71, IF Average: 0.60

(F) Citation Index: Total citation: 139, CI range: 1 to 7, CI Average: 27.8

(G) Name of important abstract/ paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

- *International Journal of Remote Sensing* is currently abstracted and indexed in: ACM Guide to Computing Literature; Astrophysics Data System; British Library Inside; CAB International; Cambridge Scientific Abstracts; CSIRO; Current Contents®/Physical, Chemical and Earth Sciences; EBSCO Databases; GEOBASE; GeoRefS; The Institution of Engineering and Technology (IET) Inspec Direct databases; New Jour; Photogrammetric Record; SciBase; Science Citation Index®; Science Citation Index Expanded™; SCOPUS and Zetoc.
- *International Journal of Urban Sciences* is indexed in Cambridge Scientific Abstracts (Aqualine; Sustainability Science Abstracts; Environmental Sciences and Pollution Management), OCLC (Environmental Sciences and Pollution Management) and Scopus.
- *Geocarto International*: EBSCOhost, ProQuest, Elsevier BV OCLC, Scopus, Thomson Reuters, Science Citation Index Expanded, Web of Science, PubMed, Ovid
- *Applied Water Science*: Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, ChemWeb, DOAJ, EI-Compendex, Geobase, OCLC, Summon by ProQuest
- *Journal of Indian Society of Remote Sensing*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Google Scholar, CSA, Academic OneFile, ASFA, Expanded Academic, Geobase, Indian Science Abstracts, OCLC, SCImago, Summon by ProQuest

- *Environmental Earth Science*: Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic OneFile, AGRICOLA, ASFA, Biological Abstracts, BIOSIS, CAB Abstracts, CSA Environmental Sciences, Current Contents/ Agriculture, Biology & Environmental Sciences, EI-Compendex, Elsevier Biobase, Environment Index, Gale, Geobase, GeoRef, Global Health, INIS Atomindex, OCLC, PASCAL, Referativnyi Zhurnal (VINITI), SCImago, Summon by ProQuest, Vitis - Viticulture and Enology Abstracts
- *Arabian Journal of Geosciences*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Chemical Abstracts Service (CAS), Google Scholar, CSA, Academic OneFile, ASFA, Current Contents/Physical, Chemical and Earth Sciences, Geobase, GeoRef, INIS Atomindex, OCLC, SCImago, Summon by ProQuest
- *International Journal of Advancement in Remote Sensing, GIS and geography*: International Journal of Remote Sensing and GIS is operated by Integrated Publishing Association, our journals are indexed by leading indexing bodies Ulrichsweb(Serial solutions), Google scholar, Crossref, CNKI scholar China, J-Gate, Indexcopernicus, Open research, ORCID, Newjour, Scribd,China Academic Journals Full-text Database, CNKI,, China Educational Publications Import & Export Corporation, Index Copernicus, Indian citation index, Informatics, Jayde and we are updating our indexing with constant addition in quality databases.
- *International Journal of Digital Earth*: Astrophysics Data Systems, Cambridge Scientific Abstracts, EBSCO Databases, NewJour, The Institution of Engineering and Technology (IET) Inspec Direct databases, Science Citation Index Expanded, SCOPUS, Cab International, Inspec, ProQuest, OCLC, Current Contents®.
- *International Journal of Remote Sensing* is currently abstracted and indexed in: ACM Guide to Computing Literature; Astrophysics Data System; British Library Inside; CAB International; Cambridge Scientific Abstracts; CSIRO; Current Contents®/Physical, Chemical and Earth Sciences; EBSCO Databases; GEOBASE; GeoRefS; The Institution of Engineering and Technology (IET) Inspec Direct databases; New Jour; Photogrammetric Record; SciBase; Science Citation Index®; Science Citation Index Expanded™; SCOPUS and Zetoc.
- *Natural Hazard*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic OneFile, AGRICOLA, ASFA, CAB Abstracts, Current Contents/Physical, Chemical and Earth Sciences, Earthquake Engineering Abstracts, EMBiology, Environment Index, Gale, Geobase, GeoRef, Global Health, OCLC, PASCAL, Referativnyi Zhurnal (VINITI), SCImago, Speleological Abstracts, Summon by ProQuest

(H) h-index 07 (as per Google Scholar); i10-index 03 (as per Google Scholar)

NAME: Dr. LAXMI KANT SHARMA

(A) Research Papers in Peer Reviewed/ Indexed INTERNATIONAL Journals: 12

1. Sinha, S., Jeganathan, C., Sharma, L.K. and Nathawat, M.S. (2014). A review of radar remote sensing for biomass estimation. *International Journal of Environmental Science and Technology* (Accepted).

2. Kanga S., Sharma L.K., Pandey P.C. and Nathawat M.S. (2014). GIS Modelling Approach for Forest Fire Risk Assessment and Management. *International Journal of Advancement in Remote Sensing, GIS and Geography*. 2(1): 30-44.
3. Sharma, L.K., Nathawat, M. S. and Sinha, S. (2013). Top-down and Bottom-up Inventory Approach for above ground forest biomass and carbon monitoring in REDD framework using multi-resolution satellite data. *Environmental Monitoring and Assessment*. 185: 8621–8637. Impact Factor: 1.59; Cited by 2 .
4. Kumar, P., Sharma, L. K., Pandey, P. C., Sinha, S. and Nathawat, M. S. (2013). Geospatial Strategy for Tropical Forest-Wildlife Reserve Biomass Estimation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 6 (2): 917-923. Impact Factor: 2.87; Cited by 10.
5. Pandey, P.C., Rani, M., Srivastava, P.K., Sharma, L.K. and Nathawat, M.S. (2013). Land degradation severity assessment with sand encroachment in an ecologically fragile arid environment: a Geospatial Perspective. *Q Science Connect*, 43.
6. Sinha, S. and Sharma, L.K. (2013). Investigations on potential relationship between biomass and surface temperature using thermal remote sensing over tropical deciduous forests, *Research & Reviews: Journal of Space Science & Technology*, 2(3):13-18.
7. Sinha, S., Sharma, L.K. and Nathawat, M.S. (2013). Integrated geospatial techniques for land-use/land-cover and forest mapping of deciduous Munger forests (India). *Universal Journal of Environmental Research and Technology*, 3(2):190-198.
8. Sharma L.K., Kanga S., Nathawat M.S., Sinha S. and Pandey P.C. (2012). Fuzzy AHP for Forest Fire Risk Modelling. *Disaster Prevention and Management*. Emareld Publication. 21(2):160-171. Impact Factor: 0.33; Cited by 4.
9. Pandey P.C., Sharma L.K. and Nathawat M.S. (2012). Geospatial Strategy for Sustainable Management of Municipal Solid Waste for Growing Urban Environment. *Environmental Monitoring and Assessment*. 184(4):2419–2431. Impact Factor: 1.59; Cited by 8
10. Sharma L.K., Pandey P.C. and Nathawat M.S. (2012). Assessment of Land Consumption Rate with Urban Dynamics Change using Geospatial Techniques, *Journal of Land Use Science*. Taylor & Francis, 7 (2), 135-148. Cited by 19.
11. Kanga S., Sharma L.K., Pandey P.C., Nathawat M.S. and Sinha S. (2011). Geospatial Approach for Allocation of Potential Tourism Gradient Sites In a Part of Shimla District in Himachal Pradesh, India. *Journal of GIS Trends*. Academy Science Journals, North America, 2(1):1-6. Cited by 2
12. Sinha S., Sharma L.K. and Nathawat M.S. (2011). Retrieving Tiger Habitat: Conserving Wildlife Geospatially. *Applied Remote Sensing*

Journal. North America, 2(1): 1-5. Cited by 3

(B) Research Papers in Peer Reviewed/ Indexed NATIONAL Journals: 08

1. Kanga, S., **Sharma, L.K.**, Pandey P.C., Nathawat, M.S. and Sharma, S.K. (2013). Forest fire modelling to evaluate potential hazard to tourism sites using geospatial approach. *Journal of Geomatics*. 7(1) 93-99.
2. Kumar N.R., Reddy S.K., Nathawat M. S., Patel N., **Sharma L.K.**, Rathore V.S., Reddy R., Rao S.M. and Sailaja B. (2013). Identification of Grape Orchard Using Combination of Image Analysis Techniques. *Environment & Ecology*. 31 (3): 1269-1275.
3. Kumar N.R., Reddy S.K., Nathawat M. S., Patel N., **Sharma L.K.**, Rathore V.S., Chary G.R., Sankar M.G., Sailaja B. and Raju N.S. (2013). Long-term rainfall analysis of Ranga Reddy district of Andhra Pradesh using GIS. *Journal of Agro-meteorology*. 15 (2): 230-234.
4. Sinha, S., **Sharma, L.K.** and Nathawat, M.S. (2012). Tigers losing grounds: Impact of anthropogenic occupancy on tiger habitat suitability using integrated geospatial-fuzzy techniques. *The Ecoscan*. (Spl.Iss.) 1: 259 - 263.
5. Kanga S., **Sharma L.K.**, Pandey P.C., Nathawat M.S., and Sinha S. (2011). Forest Fire Susceptibility Mapping with GIS Modelling. *International Journal of Earth Science and Engineering*. Spl. Issue on Remote Sensing and GIS. 4(2): 80-87.
6. Sinha S., **Sharma L.K.** Pandey P.C., Kanga S., and Nathawat M.S. (2011). Assessing Human Intrusion on Tiger Habitat and Conservation using Integrated Geospatial Techniques. *International Journal of Earth Science and Engineering*. Spl. Issue on Remote Sensing and GIS. 4(3):39-45.
7. Kanga S., **Sharma L.K.**, Nathawat M.S. and Sharma, S. (2011). Forest Fire Risk Assessment in Taradevi Range of Shimla Forest Division in Himachal Pradesh (India) using RS & GIS, *Indian forester*. 137(3): 296-303.
8. **Sharma L.K.**, Nathawat M.S. and Mishra M. (2009). "Assessment of Tree Volume and Growing Stock in Kharagpur Forest Range of Bhimbhand Wildlife Sanctuary in Bihar- an Integrated Geospatial Approach", *Journal of Nature, Environment and Pollution Technology*, 8 (03):619-626.

(B) Papers presented in National/ International Conferences/ Seminars/ etc.

1. Paper presented in **International** Seminar on: "Climate Change Impacts and Societal Adaptation", November 6th -08th 2013, at Central University of Rajasthan, Ajmer (India). Sponsored by CURAJ and SMHI, Sweden.
2. Paper presented in **INDO-UK International** Seminar on: "Quantifying

terrestrial carbon uptake from earth observation data: challenges and opportunities”, December 19th -21 (2012), at Indian Institute of Technology, Kharagpur (India). Sponsored by DST and Royal Society, London. (Report published in **Current Science**, Vol.104 (4), 25 Feb.2013, P.413).

3. Paper presented in National Seminar on: “*Biodiversity Conservation with Reference to Indian Desert*”, June 05-06, (2010) at University of Rajasthan, Jaipur.
4. Paper presented in National Seminar on: “*Urban Governance and Need for Information System*”, March 16-17, (2009) at Banaras Hindu University, (BHU).

(C) Books/Monographs/Edited Books

1. **Sharma, L.K.** (2014). “Woody Biomass Assessment with Multi-Resolution Satellite Data.” Rusu, I. (Ed.). *LAP Lambert Academic Publishing, Germany*. ISBN: 978-3-659-58810-5. pp. 113.
2. Sinha, S., Nathawat, M.S., and **Sharma, L.K.** (2014). “Geospatial approach for managing relocation and distribution of tigers”. Rusu, I. (Ed.). *LAP Lambert Academic Publishing, Germany*. ISBN: 978-3-659-52104-1. pp. 205.

(D) Chapter(s) in Books

1. Sinha, S., Pandey, P.C., **Sharma, L.K.**, Nathawat, M.S., Kumar, P. & Kanga, S. (2014). Remote estimation of land surface temperature for different LULC features of a moist deciduous tropical forest region. In: Srivastava, P.K. et al. (Eds.). *Remote Sensing Applications in Environmental Research*, Society of Earth Scientists Series, Springer International Publishing, Switzerland. 57-68. DOI: 10.1007/978-3-319-05906-8_4.
2. **Sharma, L.K.**, Sinha, S., Nathawat, M.S. & Jeganathan, C. (2014). Uses of Multi-Polarized ALOS PALSAR Data for Biomass Assessment of Tropical Forests: A step towards REDD. In: Naithani, S. (Ed.). *Remote Sensing and GIS in Environmental Resource Management*. Gaura Books India Pvt. Ltd, New Delhi, India. ISBN: 978-81-929248-0-9 (Accepted).

(E) Impact Factor: IF range: 0.3 to 2.87; IF Average: 0.27

(F) Citation Index: CI range: 2 to 26

(G) Name of important abstract/ paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Environmental Monitoring and Assessment :Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, PubMed/Medline, SCOPUS, EMBASE, Chemical Abstracts Service (CAS), Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic OneFile, AGRICOLA, ASFA, Biological Abstracts, BIOSIS, CAB Abstracts, CSA

Environmental Sciences, Current Contents/ Agriculture, Biology & Environmental Sciences, EI-Compendex, Elsevier Biobase, Environment Index, Food Science and Technology Abstracts, Gale, GeoArchive, Geobase, GeoRef, Global Health, INIS Atomindex, International Bibliography of Book Reviews (IBR), International Bibliography of Periodical Literature (IBZ), MathEDUC, OCLC, PASCAL, SCImago, Summon by ProQuest, Vitis - Viticulture and Enology Abstracts, Zoological Record

Disaster Prevention and Management :ASFA-2: Ocean Technology, Policy & Non Living Resources Abstracts, ASFA-3: Aquatic Pollution & Environmental Quality Abstracts, Cabell's Directory of Publishing Opportunities in Management and Marketing, Current Contents ® / Social and Behavioral Sciences, EBSCO, Emerald Management Reviews, Geographical Abstracts: Human Geography, Health & Safety Science Abstracts, Journal Citation Reports / Social Sciences Edition, Risk Abstracts, Scopus, Social Sciences Citation Index ® & Social Scisearch ®, Taylor & Francis Ergonomics Abstracts

(H) h-index 05; i10-index 05 (as per Google Scholar)

NAME: Dr. KANHAIYA LAL

(A) Research Papers in Peer Reviewed/Indexed National/International Journals: -NIL-

(B) Papers presented in National/International Conferences/Seminars/etc. -NIL-

(C) Books/Monographs/Edited Books

- Variability Indices: Relative Variability, Coefficient of Variability, their use in geographical data analysis”, M.Sc. study material, Kurukshetra University Press, Kurukshetra
- Weather disturbances, Part-II”, M.Sc. study material, Kurukshetra University Press, Kurukshetra
- Population and resources: concept of optimum population, over-population and under-population, Population Resource Regions”, M.Sc. study material, Kurukshetra University Press, Kurukshetra
- Green Revolution-Its impact and consequences and White Revolution in India” M.Sc. study material, Kurukshetra University Press, Kurukshetra (D) Chapter(s) in Books

(E) Impact Factor – Range and Average: -NIL-

(F) Citation Index – Range and Average: -NIL-

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.) -NIL-

(H) h-index / i10-index: -NIL-

NAME: Dr. AMIT KUMAR

(A) Research Papers in Peer Reviewed/ Indexed National/ International Journals: 07

- A.C. Pandey and **A. Kumar**. 2014. Spatio-temporal variability of surface water quality of fresh water resources in Ranchi Urban Agglomeration, India using geospatial techniques. *Applied Water Science (In press) Springer Publication*; DOI: 10.1007/s13201-014-0165-y; ISSN: 2190-5495 (electronic)
- N. Hoda and **A. Kumar**. 2014. Assessment of Bank Erosion along Major Rivers: A comparative case study of River Son - North Koel Confluence and River Ganges in Jharkhand, *Int. Journal of Applied Sciences and Engineering Research*. (Accepted, in press)
- **A. Kumar** and A.C. Pandey. 2013. Spatio-Temporal Assessment of Urban Environmental Conditions in Ranchi Township using Remote Sensing and GIS Techniques. *International Journal of Urban Sciences* 17(1):117-141. **Taylor & Francis**; DOI:10.1080/12265934.2013.766501; ISSN: 1226-5934 (Print), 2161-6779 (Online) Citation: 1
- A.C. Pandey, **A. Kumar** and A.T. Jeyaseelan. 2013. Urban Built-up Area Assessment of Ranchi Township using Cartosat-I Stereopairs Satellite Images. *Journal of Indian Society of Remote Sensing* 41(1):141–155. **Springer Publication**; DOI 10.1007/s12524-012-0209-4; ISSN: 0255-660X (print); 0974-3006 (electronic); Impact Factor: 0.528 Citation: 3
- **A. Kumar**, A.C. Pandey and A.T. Jeyaseelan. 2012. Built-up and Vegetation Extraction and Density Mapping using WorldView-II. *Geocarto International* 27(7): 557-568. **Taylor & Francis**; DOI:10.1080/10106049.2012.657695; ISSN: 1010-6049 (Print); 1752-0762 (Online); IF: 0.897; Citation: 4
- **A. Kumar**, A.C. Pandey, N. Hoda and A.T. Jeyaseelan. 2011. Evaluation of Urban Sprawl Pattern in Tribal Dominated Cities of Jharkhand State, India. *International Journal of Remote Sensing* 32(22): 7651-7675. **Taylor & Francis**; DOI: 10.1080/01431161.2010.527391; ISSN: 0143-1161 (Print); 1366-5901 (Online); IF: 1.359; Citation: 7
- **A. Kumar**, A.C. Pandey, Najmul Hoda and A.T. Jeyaseelan. 2011. Evaluating the Long-term Urban Expansion of Ranchi Township, India using Geospatial Technology. *Journal of Indian Society of Remote Sensing* 39(2): 213-224. **Springer Publication**; DOI: 10.1007/s12524-011-0089-z; ISSN: 0255-660X (print); 0974-3006 (electronic); IF: 0.528; Citation: 5

(B) Papers presented in National/International Conferences/Seminars/etc.

- (i) **A. Kumar**, 2014. Estimation of Carbon Footprint in Ranchi Urban Ecosystem using Geoinformatics Techniques *in* an International event '**Tropical Ecology Congress, 2014**' to be held at JNU, New Delhi during 10th to 12th December, 2014.
- (ii) A.T. Jeyaseelan, **Amit Kumar** and V. K. Singh, 2009. Remote Sensing for Crop Condition Assessment, *in* GEOMATICS 2009, National Conference on Geomatics and Impact of Climate Change with Specific Reference to Mountain Ecosystem 4th to 6th February 2009, USAC, Dehradun.
- (iii) R. Rawani, **A. Kumar** and A.T. Jeyaseelan, 2008. Web hosting of Jharkhand Agricultural Information System (JAIS). Paper presented and abstract published in page 150 of the Proceedings of the, *National Seminar on Information Technology in Agriculture And Rural Development* held at Birsa Agricultural University, Ranchi during 21st to 22nd November 2008.

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

(E) Impact Factor: IF range: 0.5 to 1.36; IF Average: 0.47

(F) Citation Index: CI range: 1 to 7; CI Average: 4.2

(G) Name of important abstract/ paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

- *International Journal of Remote Sensing* is currently abstracted and indexed in: ACM Guide to Computing Literature; Astrophysics Data System; British Library Inside; CAB International; Cambridge Scientific Abstracts; CSIRO; Current Contents®/Physical, Chemical and Earth Sciences; EBSCO Databases; GEOBASE; GeoRefS; The Institution of Engineering and Technology (IET) Inspec Direct databases; New Jour; Photogrammetric Record; SciBase; Science Citation Index®; Science Citation Index Expanded™; SCOPUS and Zetoc.
- *International Journal of Urban Sciences* is indexed in Cambridge Scientific Abstracts (Aqualine; Sustainability Science Abstracts; Environmental Sciences and Pollution Management), OCLC (Environmental Sciences and Pollution Management) and Scopus.
- *Geocarto International*: EBSCOhost, ProQuest, Elsevier BV OCLC, Scopus, Thomson Reuters, Science Citation Index Expanded, Web of Science, PubMed, Ovid
- *Applied Water Science*: Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, ChemWeb, DOAJ, EI-Compendex, Geobase, OCLC, Summon by ProQuest
- *Journal of Indian Society of Remote Sensing*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Google Scholar, CSA, Academic OneFile, ASFA, Expanded Academic, Geobase, Indian Science Abstracts, OCLC, SCImago, Summon by ProQuest

(H) h-index 04; i10- index: Nil (as per Google Scholar)

NAME: Er. KIRAN JALEM

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. Kiran Jalem, 2010, Village Information System (Vis) Development of Village Economy through Space Technology, Disaster & Development, 4(2) (ISSN: 0973-6700)
2. Kiran Jalem, 2012. Role of Tanks in Irrigation Sector, *Shodarnav*, 2(26), 123-129, 2012 (ISSN: 0975-5281)

(B) Papers presented in National/International Conferences/Seminars/etc.

1. 'Utility Mapping for Disaster Information Systems - A Case Study of Ranchi' has been accepted for oral presentation & presented at the 'Second India Disaster Management Congress 2009 (IDMC2)' held in Vigyan Bhawan, New Delhi during 4-6 November 2009.
2. 'Water Resource Management for DRR - A Case study of Bero Block, Jharkhand State, India' in Disaster Risk Management in the "Environmental Knowledge for Disaster Risk Management (EKDRM)" Conference, 10-11 May 2011.

(C) Books/Monographs/Edited Books: N/A

(D) Chapter(s) in Books: N/A

(E) Impact Factor – Range and Average: N/A

(F) Citation Index – Range and Average: N/A

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.): N/A

(H) h-index / i10-index: N/A

NAME: Dr. SURAJ KUMAR SINGH

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. **Suraj Kumar Singh** and A.C. Pandey (2014) Geomorphology and the controls of geohydrology on waterlogging in Gangetic Plains, North Bihar, India. *Environmental Earth Sciences*. Vol. 71, Issue. 4, pp. 1561- 1579. (Impact factor: 1.572)
2. **Suraj Kumar Singh**, A.C. Pandey, V.S. Rathore and M.S. Nathawat (2014) Evaluating factors responsible for contrastic signature of wasteland development in northern & southern Ganga plains (Bihar State, India) with focus on waterlogging. *Arabian Journal of Geosciences*. Vol. 7, Issue 10, pp. 4175-4190. (Impact factor: 1.152)
3. **Suraj Kumar Singh**, Brijesh Saklani, Shashi Prakash, Rohit Chauhan and Hemant Gupta (2014) Geospatial Approach for Decentralised Planning at Rajhana Panchayat, Himachal Pradesh. *International*

Journal of Advancement in Remote Sensing, GIS and Geography, Vol. 2, No. 2, pp. 27- 43

4. **Suraj Kumar Singh**, Vikas Chandel, Himanshu Kumar and Hemant Gupta (2014) RS & GIS based urban land use change and site suitability analysis for future urban expansion of Parwanoo Planning area, Solan, Himachal Pradesh (India). *International Journal of Development Research*, Vol. 4, Issue 8, pp. 1491-1503.
5. A.C. Pandey, **Suraj Kumar Singh**, M.S. Nathawat and Dipankar Saha (2013) Assessment of surface and subsurface waterlogging, water level fluctuations and lithological variations for evaluating ground water prospects in Ganga Plains. *International Journal of Digital Earth*. Vol. 6, No. 3, pp. 276- 296. (Impact factor: 2.056)
6. A.C.Pandey, **Suraj Kumar Singh** and M.S.Nathawat (2012). Analysing the impact of anthropogenic activities on waterlogging dynamics in Indo-Gangetic plains, Northern Bihar, India. *International Journal of Remote Sensing*, Vol. 33, No. 1, 135–149(Impact factor: 1.359)
7. **Suraj Kumar Singh**, A.C.Pandey and M.S.Nathawat (2011) Rainfall variability and Spatio temporal dynamics of flood inundation during the 18th August 2008 Kosi Flood in Bihar, India. *Asian Journal of Earth Sciences*, 4, 9-19
8. A.C.Pandey, **Suraj Kumar Singh** and M.S.Nathawat (2010) Waterlogging and flood hazards vulnerability and risk assessment in Indo Gangetic plain. *Natural Hazards*, 55, 273-289. DOI: 10.1007/s11069-010-9525-6. (Impact factor: 1.958)
9. M.S. Nathawat, V.S. Rathore, A.C. Pandey, **Suraj Kumar Singh** and G. Ravi Shankar (2010) Monitoring & analysis of wastelands and its dynamics using multi-resolution and temporal satellite data in part of Indian state of Bihar. *International Journal of Geomatics and Geosciences*, Vol.1, No.3, 297-307.

(B) Papers presented in National/International Conferences/Seminars/etc.

- Delivered a lecture on “**Hydrogeomorphological mapping in Indo-gangetic plain**” in Aquifer management and local groundwater issues held at CUJ Brambe held on 11th – 15th March, 2014 organized by Central Ground Water Board, Mid-Eastern Region, Patna

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

(E) Impact Factor: Range: 1-3; Average: 2

(F) Citation Index: Citation: 34; Average: 3.7

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

1. *Environmental Earth Science*: Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Astrophysics Data System (ADS), Chemical Abstracts Service (CAS), Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic OneFile, AGRICOLA, ASFA, Biological Abstracts, BIOSIS, CAB Abstracts, CSA Environmental Sciences, Current Contents/Agriculture, Biology & Environmental Sciences, EI-Compendex, Elsevier Biobase, Environment Index, Gale, Geobase, GeoRef, Global Health, INIS Atomindex, OCLC, PASCAL, Referativnyi Zhurnal (VINITI), SCImago, Summon by ProQuest, Vitis - Viticulture and Enology Abstracts
2. *Arabian Journal of Geosciences*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Chemical Abstracts Service (CAS), Google Scholar, CSA, Academic OneFile, ASFA, Current Contents/Physical, Chemical and Earth Sciences, Geobase, GeoRef, INIS Atomindex, OCLC, SCImago, Summon by ProQuest
3. *International Journal of Advancement in Remote Sensing, GIS and geography*: International Journal of Remote Sensing and GIS is operated by Integrated Publishing Association, our journals are indexed by leading indexing bodies Ulrichsweb(Serial solutions), Google scholar, Crossref, CNKI scholar China, J-Gate, Indexcopernicus, Open research, ORCID, Newjour, Scribd,China Academic Journals Full-text Database, CNKI,, China Educational Publications Import & Export Corporation, Index Copernicus, Indian citation index, Informatics, Jayde and we are updating our indexing with constant addition in quality databases.
4. *International Journal of Digital Earth*: Astrophysics Data Systems, Cambridge Scientific Abstracts, EBSCO Databases, NewJour, The Institution of Engineering and Technology (IET) Inspec Direct databases, Science Citation Index Expanded, SCOPUS, Cab International, Inspec, ProQuest, OCLC, Current Contents®.
5. *International Journal of Remote Sensing* is currently abstracted and indexed in: ACM Guide to Computing Literature; Astrophysics Data System; British Library Inside; CAB International; Cambridge Scientific Abstracts; CSIRO; Current Contents®/Physical, Chemical and Earth Sciences; EBSCO Databases; GEOBASE; GeoRefS; The Institution of Engineering and Technology (IET) Inspec Direct databases; New Jour; Photogrammetric Record; SciBase; Science Citation Index®; Science Citation Index Expanded™; SCOPUS and Zetoc.
6. *Natural Hazard*: Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic OneFile, AGRICOLA, ASFA, CAB Abstracts, Current Contents/Physical, Chemical and Earth Sciences, Earthquake Engineering Abstracts, EMBiology, Environment Index, Gale, Geobase, GeoRef, Global Health, OCLC, PASCAL, Referativnyi Zhurnal (VINITI), SCImago, Speleological Abstracts, Summon by ProQuest

(H) h-index: 3

NAME: Dr. SHRUTI KANGA

(B) Research Papers in Peer Reviewed/Indexed National/International Journals

1. **Kanga S., Thakur K., Kumar S., and Gupta H. (2014). Potential of Geospatial techniques to facilitate the tourist & administration: a case study of Shimla hill station, Himachal Pradesh, (India). *International***

Journal of Advanced Remote Sensing and GIS, 3 (1): 681-698, ISSN No. 2320 – 0243.

2. **Kanga S.**, Sharma L.K., Pandey P.C. and Nathawat M.S. (2014). GIS Modelling Approach for Forest Fire Risk Assessment and Management. **International Journal of Advancement in Remote Sensing, GIS and Geography**, 2: 30-44. ISSN No. 2321-8355.
3. **Kanga, S.**, Sharma, L.K., Pandey P.C., Nathawat, M.S. & Sharma, S.K. (2013). Forest fire modeling to evaluate potential hazard to tourism sites using geospatial approach. **Journal of Geomatics**, 7: 93-99. ISSN No. : 0972-642X.
4. Sharma, L.K., **Kanga, S.**, Nathawat, M.S., Sinha, S. & Pandey, P.C. (2012). Fuzzy-AHP for forest fire risk modeling. **Disaster Prevention and Management**. 21 (2): 160-171. ISSN No.: 0965-3562.
5. **Kanga, S.**, Sharma, L.K., Pandey, P.C., Nathawat, M.S. & Sinha, S. (2011). Eco-tourism of Taradevi Range of Shimla forest division in Himachal Pradesh (India). **Journal of GIS Trends**, 2(1): 1-6. ISSN No.: 2146-0892.
6. **Kanga, S.**, Sharma, L.K., Nathawat, M.S. & Sharma, S.K. (2011). Geospatial approach for forest fire risk modeling: a case study of Taradevi Range of Shimla forest division in Himachal Pradesh (India). **Indian Forester**, 137 (3): 296-303. ISSN No.: 0019-4816.
7. **Kanga, S.**, Sharma, L.K., Pandey, P.C., Nathawat, M.S. & Sinha, S. (2011). Forest fire susceptibility mapping using GIS modeling. **International Journal of Earth Science and Engineering**. Spl. Issue on Remote Sensing and GIS. 4(2): 80-87. ISSN No.: **0974-5904**.
8. Sinha, S., Pandey, P.C., **Kanga, S.**, Sharma, L.K., & Nathawat, M.S. (2011). Assessing human intrusion on tiger habitat and conservation using integrated geospatial techniques. **International Journal of Earth Science and Engineering**. Spl. Issue on Remote Sensing and GIS. 4(3):39-45. ISSN No.: **0974-5904**.

(B) Papers presented in National/International Conferences/Seminars/etc.

- **Kanga, S. et.al.**, Customization of panchayat, urban, tourism geodatabase for desktop and web GIS application.” accepted for Oral presentation in the Section entitled “Engineering sciences and Technology” for the 1st Himachal Pradesh Science Congress “*Role of Science & Technology in Sustainable Development*” held at Shimla on October 15-16, 2014.

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

- Sinha, S., Nathawat, M.S., Sharma, L.K., Kumar, P., **Kanga, S.** & Pandey, P.C. (2014). Remote estimation of land surface temperature for different LULC features of a moist deciduous tropical forest region. In: Mukherjee, S., Gupta, M. & Srivastava, P.K. (Eds.). **Remote**

Sensing Techniques in Earth Sciences, SpringerSpringer International Publishing, pp. 57-68. Doi: 10.1007/9783-319-05906-8_4.

(E) Impact Factor: Range: 0-1; Average: 0.4

(F) Citation Index: Citation: 07, Average: 1.4

(G) Name of important abstract/paper indexing agencies where your papers are indexed (SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

International Journal of Advanced Remote Sensing and GIS: International Journal of Remote Sensing and GIS is operated by Integrated Publishing Association, our journals are indexed by leading indexing bodies Ulrichsweb(Serial solutions), Google scholar, Crossref, CNKI scholar China, J-Gate, Indexcopernicus, Open research, ORCID, Newjour, Scribd,China Academic Journals Full-text Database, CNKI,, China Educational Publications Import & Export Corporation, Index Copernicus, Indian citation index, Informatics, Jayde and we are updating our indexing with constant addition in quality databases.

(H) h-index: 02

CENTRE FOR ENVIRONMENTAL SCIENCES

1. **Name of the Centre:** Centre for Environmental Sciences
2. **Year of establishment:** Established in the year 2012 as Centre for Environmental Sciences
3. **Is the Centre part of a School/Faculty of the University?**
Yes, the Centre is a part of the School for Natural Resource & Management
4. **Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)**
The Centre at present offers Integrated Masters course in 'Environmental Sciences' since its inception and has started offering Ph. D. course in 'Environmental Sciences' commencing from 2013-14 academic Session
5. **Interdisciplinary Programmes/Courses and Centres involved:**
In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Environmental Studies	1 st Sem	Centre for Life Sciences; Centre for Applied Chemistry; Centre for Applied Physics; Centre for Applied Mathematics; Centre for Water Engineering Management; Centre for Land Resource Management; Centre for Nanotechnology; Centre for Energy Engineering; Centre for Environmental Sciences	Dr. Manoj Kumar; Dr. Bhaskar Singh; Dr. Purabi Saikia; Dr. Kuldeep Bauddh; Dr. Shushil Kumar Shukla; Dr. Kavita Parmar; Ms. Fouzia Rahman
Principles of Environmental Science & Ecology	1 st Sem	CEVS	Dr Purabi Saikia, Dr Manoj Kumar, Dr Tenya Rina
Environmental Studies	2 nd Sem	Centre for Business Administration; Centre for Indigeneous Cultural Studies; Centre for Tribal & Customary Law; Centre	Dr. Manoj Kumar; Dr. Bhaskar Singh; Dr. Purabi

		for Music & Performing Arts; Centre for Tribal Folklore, Language & Literature; Centre for English Language; Centre for Far East Language (Korean); Centre for Far East Language (Chinese); Centre for Far East Language (Tibetan); Centre for Mass Communication; Centre for Human Rights & Conflict Management; Centre for International Relations; Centre for Education	Saikia; Dr. Kuldeep Bauddh; Dr. Shushil Kumar Shukla; Dr. Kavita Parmar
Environmental Chemistry	2 nd Sem	Centre for Environmental Sciences	Dr Kuldeep Bauddh
Environmental Biology	3 rd Sem	Centre for Environmental Sciences	Dr Purabi Saikia, Dr. S K Shukla
Environmental Physics	3 rd Sem	Centre for Environmental Sciences	Dr Manoj Kumar
Environmental Earth Science	3 rd Sem	Centre for Environmental Sciences	Dr Bhaskar Singh, Dr S K Shukla
Environmental Pollution	3 rd Sem	Centre for Environmental Sciences	Dr Kavita Parmar, Dr Kuldeep Bauddh
Environmental Pollution and Earth Science Lab	3 rd Sem	Centre for Environmental Sciences	Dr Kavita Parmar, Dr Manoj Kumar and Dr Kuldeep Bauddh
Environmental Biology Lab	3 rd Sem	Centre for Environmental Sciences	Dr Purabi Saikia, Dr S K Shukla
Fundamentals of Soil Sciences	4 th Sem	Centre for Environmental Sciences	Dr Kuldeep Bauddh
Environmental Microbiology and Biotechnology	4 th Sem	Centre for Environmental Sciences	Dr S K Shukla

Natural Resources and Management	4 th Sem	Centre for Environmental Sciences	Dr Bhaskar Singh, Dr S K Shukla
Environmental Monitoring and Pollution Control Technologies	4 th Sem	Centre for Environmental Sciences	Dr Manoj Kumar, Dr Bhaskar Singh
Environmental Microbiology and Biotechnology Lab	4 th Sem	Centre for Environmental Sciences	Dr S K Shukla, Dr Purabi Saikia
Soil Science Lab	4 th Sem	Centre for Environmental Sciences	Dr Kuldeep Bauddh, Dr S K Shukla
Aerosols & Environment	5 th Semester	Centre for Applied Chemistry; Centre for Water Engineering Management; Centre for Environmental Sciences	Dr. Manoj Kumar
Environmental Issues	5 th Semester	Centre for Applied Chemistry; Centre for Applied Physics; Centre for Nanotechnology; Centre for Energy Engineering; Centre for Environmental Sciences	Dr. Bhaskar Singh; Dr. Kavita Parmar
Industrial Safety & Toxicology	5 th Semester	Centre for Business Administration; Centre for Life Sciences; Centre for Applied Chemistry; Centre for Water Engineering Management; Centre for Nanotechnology; Centre for Environmental Sciences	Dr. Kuldeep Bauddh
Industrial Pollution & Control	5 th Semester	Centre for Life Sciences; Centre for Water Engineering Management; Centre for Environmental Sciences	Dr. Kavita Parmar; Dr. Shushil Kumar Shukla
Forestry & Wildlife	5 th Semester	Centre for Life Sciences; Centre for Environmental Sciences	Dr. Purabi Saikia; Dr. Bhaskar Singh

Instrumentation and Analytical Techniques	6 th Sem	Centre for Environmental Sciences	Dr Bhaskar Singh, Dr S K Shukla
Environmental Agriculture Meteorology	6 th Sem	Centre for Environmental Sciences	Dr ManojKumar
Municipal Solid and Hazardous Waste Management	6 th Sem	Centre for Environmental Sciences	Dr Bhaskar Singh, Dr Kuldeep Bauddh
Water Resource Management	6 th Sem	Centre for Environmental Sciences	Dr Manoj Kumar, Dr Kavita Parmar, Dr S K Shukla
Agro-Meteorology and Analytical Methods Lab	6 th Sem	Centre for Environmental Sciences	Dr Manoj Kumar, Dr Bhaskar Singh

6. **Courses in collaboration with other universities, industries, foreign institutions, etc**

NA

7. **Details of Programmes discontinued, if any, with reasons:** Nil

8. **Examination System: Annual/ Semester/Trimester/Choice Based Credit System:**

Semester/Choice Based Credit System

9. **Participation of the Centre in the courses offered by other Centres:**

10. **Number of teaching posts sanctioned and filled:**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Nil	Nil
Associate Professor	02	01	Nil
Assistant Professor	04	03	Nil

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Manoj Kumar	Ph. D.	Head & Associate Professor	Climatology, Atmospheric Science	10: Teach. 18:Res.	7(Compl.)+3(Ongoing)
Dr. Bhaskar Singh	M. Phil & Ph. D.	Assistant Professor	Renewable Energy, Rainwater Harvesting	03Years	01 (Enrolled)
Dr. Purabi Saikia	Ph. D.	Assistant Professor	Plant Ecology; Plant Systematics; Biodiversity Conservation; Soil Sciences	03Years	Nil
Dr. Kuldeep Baudh	Ph. D.	Assistant Professor	Bioremediation, Phytoremediation, Metal Toxicology, Stress Biology, Soil Quality Management	01 ½ Years	Nil

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:** Nil
13. **Percentage of classes taken by temporary faculty:** 15%
14. **Programme-Wise Student Teacher Ratio:**
Integrated M. Sc. (Environmental Science): 18:1
Ph.D in Environmental Science: : 3:1
15. **Number of academic support staff (technical) and administrative staff sanctioned and filled:** 1 (Technical)
16. **Research thrust areas as recognized by major funding agencies**

Climatology; Aerosol chemistry; Biodiesel; Plant Diversity, Systematics and Ecology; Phytoremediation; Atmospheric Science; Water purification, Air quality monitoring and management

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:**

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Dr Manoj Kumar	INSAT 3D Data utilization	30.0 Lakhs	3 years	August 2013-ongoing	Space Application Centre (ISRO), Ahmedabad
	GPS upper Air observational Studies	50.0 Lakhs (Instruments provided by ISRO)	3 years	December 2013-ongoing	ISRO Bangalore
	Aerosol radiative forcing over varying vegetative fields and surfaces	50.0 Lakhs Revised version submitted	3 years	Approved, To be start	DST, GOI
Dr Purabi Saikia	Phytosociological analysis of forests of Ranchi, Jharkhand, India	6.0 Lakhs under Start up grant	3 years	June, 2014	UGC, GOI
Dr Bhaskar Singh	Transesterification of biodiesel from <i>Millettia pinnata</i> oil from nano-CaO loaded compounds'	6.0 Lakhs under Start up grant	3 years	Approved, To be start	UGC, GOI
Dr Kuldeep Baudh	Effects of cadmium (Cd) on the yield and quality of	6.0 Lakhs under Start up grant	3 years	Approved, To be start	UGC, GOI

	<i>Ricinus communis</i> seeds and oil'				
Dr Kavita Parmar (On Contract)	Biomass burning and black carbon effect over paddy field	26.0 Lakhs under Young Scientist Scheme	3 years	11-09-2014, on-going	DST, GOI

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: NARL of ISRO Centre has supported CEVS to carry out upper air observational unit at CUJ since 2013, whereas IITM Pune collaborating in Atmospheric Chemistry field of research. SAC, Ahmedabad collaborating under INSAT-3D data utilization with funding, whereas Semi Conductor Lab, Chandigarh supplying GPS based radiosonde for upper air atmosphere.

(b) International Collaboration: Nil

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil

20. Research facility / Centre with:

(a) State Recognition: Nil

(b) National Recognition: Yes

(c) International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. List of Publications in Last Five Years: (Including publications during previous organizations)

Research papers in International/National Journals

: 110

Book Chapters

: 08

Books

: 01

Papers in International/National Proceedings

: 20

Papers presented in International National Seminars/Conferences, etc.

: 32

- 23. Details of patents and income generated:** Nil
- 24. Areas of consultancy and income generated:** Nil
- 25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad:**

Dr Manoj Kumar visited

1. 2nd NDIMC conducted by NIDM, New Delhi MoES, GOI, 4-6 November, 2009
2. Workshop on CTCZ-PILOT: Initial Results, conducted by Dept. of Science & Technology, GoI in IITM Pune from April 28-30, 2010.
3. National Workshop on NOWROSE (TSE) at VSSC, Trivandrum on 27-28 January, 2011.
4. STORM Workshop at IIT Kharagpur conducted by the MoES, GOI on 15th May, 2011.
5. SAARC-STORM Workshop at Kathmandu, Nepal conducted by the SAARC-STORM, Bangladesh from 21-23 Dec, 2011.

- 26. Faculty serving in:**
(a) National Committees : Yes

Name of Faculty holding positions:

Dr. Manoj Kumar

- a. Secretary, Indian Meteorology Society Ranchi Chapter
- b. Founder Member of association of Agrometeorologists
- c. Life Member of Institute of Engineers
- d. Life Member of “The Society for Science of Climate Change and Sustainable Environment (www.ssceindia.org)”.

Dr. Kuldeep Baudh

- (a) Joint-Secretary of the society “The Society for Science of Climate Change and Sustainable Environment (www.ssceindia.org)”.
- (b) Executive member of the society “Professor H.S. Srivastava Foundation for Science and Society (www.phssfoundation.org.in)”.
- (c) Life member of the society “Professor H.S. Srivastava Foundation for Science and society (www.phssfoundation.org.in)”. Life member of the society “The Society for Science of Climate Change and Sustainable Environment (www.ssceindia.org)”.
- (d) Assistant Editor of Research Journal “Climate Change and Environmental Sustainability” Co-published by The Society “Science of Climate Change and Sustainable Environment”

(www.ssceindia.org) and “Indian Journals” (www.indianjournal.com)
ISSN: 2320-6411 (Print) and 2320-642X (Online).

(e) Associate **Editor** in an National Magazine “**Kahaar**”, a carrier for knowledge of sustainable development: ISSN: 2394-3912”

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

- i. Dr. Bhaskar Singh: Participated in 69th Orientation Course at the UGC-Academic Staff College, Banaras Hindu University, Varanasi, from 29.08.2014 to 25.09.2014 and Scored Grade A.
- ii. Dr. Purabi Saikia: Participated in Orientation Programme during 14th July to 10th August 2014 at UGC – Staff Academic College at Ranchi University, Ranchi and secured Grade-A
- iii. Dr. Sushil Kumar Shukla
 1. Participated in Staff Development Program on “Energy conversion and management” organized at Dept. of mechanical Engineering, IT, BHU, during April 03-09, 2009, sponsored by AICTE.
 2. Participated in Faculty Development Programme in Entrepreneurship sponsored by NSTEDB, Department of Science and Technology, Government of India, New Delhi Organized at TBI, Institute of Technology, BHU, Varanasi, 13-24 December, 2010.
 3. Participated in Business Skill Development Programme organized by TBI, IT, BHU and supported by Ministry of MSME, Govt. of India, during 30 August 2011 to 29 September 2011.

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 50

- i. Dr. Bhaskar Singh guided six students of 5th Semester (Nanotechnology, Environmental Sciences, & Applied Chemistry) in their summer internship project: Nishant Kumar Sony, Pravin Kumar, Gopal Bharti, Praveen Kumar, Rahul Pramanik, Akash Kumar (Summer, 2014): “*Evaluation of ground water and surface water of Central University of Jharkhand campus and adjoining areas*”.
- ii. Dr. Purabi Saikia guided one student from Centre for Life Sciences, CUJ for one month summer dissertation (2014) on ‘Comparative Physico-Chemical analysis of Soils of polluted and non polluted sites of Jharkhand, India’.

- (b) **Percentage of students doing projects in collaboration with other universities / industry/institute**
Nil

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

1. Earth Day was celebrated in the Centre with the collaboration with Unnayan on 3rd Sept 2014 funded by the Indian Meteorological Society Ranchi Chapter.
2. Centre for Environmental Sciences celebrated World Ozone Day on 18th September, 2013 at Central University of Jharkhand, Brambe, Ranchi.
3. Centre for Environmental Sciences & Centre for Water Engineering and Management jointly celebrated World Water Day on 21st and 22nd March, 2013 at Central University of Jharkhand, Brambe, Ranchi.
4. Centre for Environmental Sciences & Centre for Land Resource Management jointly celebrated World Ozone Day on 16th September, 2012 at Central University of Jharkhand, Brambe, Ranchi

31. Code of ethics for research followed by the Centre:

- a) The research work should be original.
- b) The research work should be of quality mark and value based.
- c) The research work should be innovative.
- d) The research work should be such that new process, method or product may be developed.
- e) The research work should have relevance to the society at large.

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph.D in 2013	10	01	01	NA	
Ph.D in 2014	67	01	01		

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
M.Sc. Integrtaed in Environmental Science	Nil	45	55	Nil
Ph.D in Environmental Science	Nil	33	77	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details):

Two research scholars pursuing Ph. D. have cleared the national level UGC NET examination.

35. Student progression: Nil**25. Diversity of staff:**

Percentage of staff from the State	14
Percentage of staff from other States	86
Percentage of staff from other countries	100
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	14
Percentage of staff who are graduates from universities from other states	86
Percentage of staff who are graduates from other universities outside the country	Nil

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period:

03

38. Present details about infrastructural facilities:

Library	The centre has recourse to the Central Library of the University.
Internet facility for staff & students	A lease line connection is available in the centre for faculty access; and wi-fi connectivity is there for both staff and students
Total number of class rooms	04 (Two teaching, two laboratory)
Class rooms with ICT facility	Nil
Student's laboratories	The centre has one laboratory
Research Laboratories	The centre has one research laboratory
Others	01 office room for the centre

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) From other institutions/universities: 03 doctoral students

Sl. No.	Name of Students	Area of Research	University last attended
1.	Ms. Smriti Priya	Aerosols	Pondicherry University
2.	Mr. Dipesh Kumar	Biodiesel	Pondicherry University
3.	Ms. Poulomi Chakrovorty	Climate Change	Pondicherry University

40. Number of students of the centre getting financial assistance from the university (2-5 per year): Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: No

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

The faculty members of the centre are in the Board of Studies of the university and are involved in constantly upgrading the syllabi according to the recent class experience and developments in the field.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Students are given freedom to suggest for up-gradations in teaching methodology, content of syllabi, etc. The provision of formal student feedback system is also in place which is administered by DR (Academics) which is discussed with the teachers.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

Nil

43. List the distinguished alumni of the centre (maximum 10): Nil

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

Nil

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

(a) Conducting book review, assignment of writing review papers, analyzing data in specialized software like SPSS, EVIEWS, etc.

(c) Student presentations

(d) Circulation of readings in advance to facilitate effective class room discussions

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

The centre follows continuous evaluation system for students by giving assignments to students, asking them for presentation of a topic, conducting quiz test, conducting sessional examinations. The impact is monitored by faculty members and discussed at the centre level. Regular brain storming meetings are also held among faculty and students.

47. Highlight the participation of students and faculty in extension activities:

- Mr. Om Prakash of 2nd semester had participated and won Gold Medal in State level Wushu Championship held in Morabadi, Ranchi on dated 18th February, 2014.
- Mr. Om Prakash of 2nd semester had participated in 22nd National Wushu Championship in Jaipur, Rajasthan during 6th Feb. 2014 to 10th Feb. 2014 and represented the state of Jharkhand.
- Mr. Om Prakash of 2nd semester had participated and won Championship Gold Medal in Inter-house Basketball competition organized by CUJ.
- Mr. Hemant Kumar Ganju of 2nd semester had participated and won Bronze Medal in State Level Wrestling competition in Pakur, Jhrkhand.
- Mr. Yash of 2nd semester had participated 8 Km Trekking to Thakur Gaon on dated 13th April, 2014 organized by Sports Authority of CUJ
- Mr. Aman Kumar, Mr. Akshay Kr. Singh and Mr. Raj Kumar of 2nd semester had participated in Inter-house Cricket competition and Mr. Akshay Kr. Singh had also participated in Inter-house Valley ball competition organized by CUJ.

- Ms. Priya Mukherjee, Mr. Gopal Bharti and Ms. Sakshi Sri of 4th Semester had participated in Fifteen days National Trekking Expedition from 21-12-2013 to 04-01-2014 organized by Youth Hostel Association of India
- Ms. Sayantee Roy, Ms. Shailja Ranjeeta Besra, Ms. Sakshi Sri, Ms. Priya Mukherjee, Ms. Khushboo Suman, Mr. Sachin Kumar and Mr. Pravin Kumar of 4th Semester had participated and presented papers in National Seminar organized by SESA, Daltonganj, Jharkhand
- Ms. Shivani Kumari, Ms. Puja Parmar, Mr. Praveen Kumar, Mr. Gopal Bharti of 4th semester and 9 students of 2nd semester had participated in Poster Competition organized on the eve of World Ozone Day by CEVS, CUJ, Ranchi
- All the 12 students of 4th semester and 13 students of 2nd semester had participated in Quiz Competition organized on the eve of World Ozone Day by CEVS, CUJ, Ranchi

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

Mentorship policy for each student has been adopted since December 2013. Each faculty in the Centre has been deputed as ‘mentor’ of 5-6 students and take personal attention in their studies and overall improvement.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details:

NA

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

Centre is involved in doing research in soil sciences, ecological characterization, climate change aspect over the region.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

- (i) Highly qualified and experienced teaching personals in their respective fields.
- (ii) Concentration on knowledge acquisition and employment capabilities of students
- (iii) Innovative and focused approach
- (iv) Imparting inter-disciplinary learning in the university
- (v) Team spirit of the faculty members

(vi) High Quality individual research of faculty members

(B) Weaknesses:

(i) Limited infrastructure

(C) Opportunities:

(i) To run multidisciplinary courses

(ii) To design courses independently as per present day requirement

(iii) To strengthen research by organizing seminars/conferences/workshops/projects

(iv) To collaborate with the industries for consultancies, projects, & training of students

(D) Challenges:

(i)

52. Future plans of the centre:

(i) To tie up with industry & research institutions for research projects

(ii) Continuous up-grading of syllabus and evaluation methods

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

Dr. Manoj Kumar

Articles Published in Referred Journals:

1. Abhay Srivastava, Mrinal Mishra, Manoj Kumar. 2015. Lightning alarm system using stochastic modelling, Natural Hazards, January 2015, Volume 75, Issue 1, pp 1-11.
2. Manoj Kumar and Rahela Parween. 2014. Spectral Variation of Total Column Aerosol Optical Depth Over Ranchi: A Humid Subtropics Indian Station. Climate Change and Environmental Sustainability, Vol. 2, No. 2, October, 2014.
3. Jyotsna Singh, Manoj Kumar and V Sivakumar (2014). Season Specific Daily Diffuse Solar Radiation Fraction Parameterizations for India. Journal of Solar Energy Engineering: Including Wind Energy and Building Energy Conservation. ASME.US doi: 10.1115/1.4028563.

4. Arun K. Dwivedi, Sagarika Chandra, M. Kumar, Sanjay Kumar, N.V.P. Kiran Kumar (2014) Atmospheric surface layer responses to the extreme lightning day in plateau region in India. *Journal of Atmospheric and Terrestrial Physics* Volume 120, December 2014, Pages 143–149, Elsevier publication.
5. Arun K. Dwivedi, Sagarika Chandra, M. Kumar, Sanjay Kumar, N.V.P. Kiran Kumar (2014) Spectral Analysis of Wind and Temperature Components during Lightning in Pre-Monsoon Season over Ranchi. *Meteorology & atmospheric Physics* DOI:10.1007/s00703-014-0346-0, Springer Publication.
6. R. Latha, B.S. Murthy, L. Kaundilya, M. Kumar, S.K. Das and N.C. Mahanti (2014) Temporal variation of 'solar dimming' induced by composite and carbonaceous aerosols: observations from mineral rich eastern Indian region. *Journal of Geophysical Research-An American Geophysical Union Publication 2014: Volume 119, Issue 10, pages 6246–6258, 27 May 2014*
7. S. Pandey, M. Kumar, S. Chakraborty and N.C. Mahanti (2014) A Statistical Comparison of Reference Evapotranspiration Methods: A Case Study from Jharkhand State of India. *International Journal of Innovative Research in Science, Engineering and Technology* 3(1): 8765-8777.
8. S. Pandey, M. Kumar and N.C. Mahanti (2014) Assessment of drought severity in various regions of Jharkhand state of India. *ISCA-IRJEvS* 3(2): 8-14.
9. K. Lipi and M. Kumar (2014) Aerosol and Black Carbon over Indo-Gangetic Basin during Lighting Festival (Diwali) Period Using Aethalometer and Back trajectory Datasets. *International Journal of Engineering Research & Technology* 3(1): 666-676.
10. B.S. Murthy, R. Latha, M. Kumar and N.C. Mahanti (2014) Effect of aerosols on evapo-transpiration. *Atmospheric Environment* 89: 109-118.
11. R. Latha, B.S. Murthy, M. Kumar, S. Jyotsna, K. Lipi, G. Pandithurai and N.C. Mahant (2014) Aerosol Optical Properties and Composition over a Table Top Complex Mining Area in the Monsoon trough Region. *Aerosol and Air Quality Research* 14: 806–817.
12. K. Lipi and M. Kumar (2014) Aerosol and Black Carbon over Indo-Gangetic Basin during Lighting Festival (Diwali) Period Using Aethalometer and Back trajectory Datasets. *International Journal of Engineering Research & Technology* 3(1): 666-676.
13. Sagarika Chandra, Arun K. Dwivedi and M. Kumar (2014) Characterization of the atmospheric boundary layer from radiosonde

- observations along eastern end of monsoon trough of India. *J. Earth Syst. Sci.* 123(6): 1233-1240.
14. R. Latha, B.S. Murthy, M. Kumar, S. Jyotsna and K. Lipi (2013) Aerosol radiative forcing controls: Results from an Indian table-top mining region. *Atmospheric Environment* 81: 687-694.
 15. B.S. Murthy, R. Latha and M. Kumar (2013) Influence of tropical cyclone 'AILA' on atmospheric surface layer turbulence and fluxes at Ranchi during its landfall. *Atmospheric Science Letters, Royal Met Soc. Atmos. Sci. Let.* 15: 72-78.
 16. K. Lipi and M. Kumar (2013) Aerosol behaviour over Ranchi. *European Scientific Journal* 9(36): 211-221.
 17. P. Jha, M. Kumar, P.D. Meena and H.C. Lal (2013) Dynamics and management of Iternaria blight disease of Indian mustard. *Journal of Oilseed Brassica* 4(2): 66-77.
 18. C.K. Unnikrishnan, M. Rajeevan, S.V. Bhaskara Rao and M. Kumar (2013) Development of a high resolution land surface dataset for the South Asian monsoon region. *Current Science* 105(9): 1235-1246.
 19. A. Kumar, M. Kumar, N.C. Mahanti, L.D. Saraswat, V. Pandey and A. Wadood (2013) Long term trend analysis on precipitation and temperature along eastern end of monsoon trough of Ranchi, Jharkhand India. *Int. J. Envi. Sci. Tech.* 2(2): 1-10
 20. A. Kumar, M. Kumar, L.D. Saraswat and N.C. Mahanti (2013) The mesoscale measurement of surface energy (land surface) during the summer monsoon and thunderstorm period in per humid climate condition. *Int. J. Environ. Sci. Tec.* 2(1): 56-69.
 21. A. Kumar, M. Kumar, L.D. Saraswat and N.C. Mahanti (2013) The comparative computation of Net radiation and PET using slow response sensor data over per humid climatic condition Ranchi Jharkhand. *Int. J. Environ. Sci. Tec.* 2(1): 48-55.
 22. K. Lipi and M. Kumar (2013) Study of Aerosol black carbon and Aerosol optical Depth over Ranchi during winter in Northern India. *International Journal of Engineering Research & Technology* 2(10): 3189-3195.
 23. Jyotsna Singh, Bimal K. Bhattacharya, M. Kumar and K. Mallik (2013) Modeling Monthly Diffuse Solar Radiation Fraction and its Validity over Indian Sub-Tropic. *Int. J. of Climatology* 33(1): 77-86. Wiley Publication
 24. M.N. Patil, M. Kumar, R.T. Waghmare, T. Dharmaraj and N.C. Mahanty (2013) Evaluation of Noah-LSM for soil hydrology

- parameters in the Indian summer monsoon conditions. *Theor. Appl. Climatol.*, DOI 10.1007/s00704-013-1046-2.
25. Bhishma Tyagi, A.N.V. Satyanarayana, M. Kumar, N.C. Mahanti. 2013. Surface energy and radiation budget over a tropical station: An observational study. *Asia-pacific Journal of Atmospheric Science*, 48(4): 411-421
 26. Jyotsna Singh, Bimal K. Bhattacharya and M. Kumar (2012) Solar Radiation and Evaporation Trend over India. *Journal of Earth Science and Engineering*, 2, 160-165, ISSN 2159-581X, USA.
 27. Jyotsna Singh, M. Kumar and Bimal K. Bhattacharya (2012) Global Radiation, Transmissivity and Bright Sunshine Hour trend over Nagpur. *Atmospheric and Climate Sciences*, 2, 206-209, Scientific Research Publishing, USA.
 28. Abhay Srivastava, M. Kumar and Arun K. Dwivedi (2012) Studies of Atmospheric Parameters during SW Monsoon Period Associated with Severe Cyclone Aila and Lightning Occurrence over Ranchi Region. *ISRN Meteorology 2012*: 1-3. doi:10.5402/201.
 29. Swati Pandey, A. C. Pandey, M. S. Nathawat, M. Kumar and N.C. Mahanti (2012) Drought hazard assessment using geoinformatics over parts of Chotanagpur plateau region, Jharkhand, India. *Nat Hazards* 63(2): 279-303.
 30. M. Kumar, A.M. Shekh and Vyas Pandey (2011) Study of land surface processes over different soil surfaces over Semi arid region of India. *Nava Gavesana (An International Research Journal)*, 1(2), 34-49.
 31. M. Kumar, Kumari Lipi, S Sureshababu, N C Mahanti and A Wadood (2011) Aerosol Properties over Ranchi measured from Aethalometer. *Atmospheric and Climatic Science* , 1: 91-94, Scientific Research Publ., USA.
 32. Jyotsna Singh, Bimal K. Bhattacharya, M. Kumar and K. Mallik (2011) Modeling Monthly Diffuse Solar Radiation Fraction and its Validity over Indian Sub-Tropics. *International J. of Climatology*, 33 (1), 77-86, Wiley Publication. IF: 2.479. DOI:10.1002/joc.3408,
 33. Jyotsna Singh, M. Kumar, B K Bhattacharya (2011) Diffuse solar radiation model using sunshine duration for Nagpur, India. *J. of Theoretical and Applied Climatology*, 24:1121 -1136, Springer Publication. IF: 1.684.
 34. M. Kumar, Chinmay Mallik, Anil Kumar, and N.C. Mahanti.2010. Evaluation of the boundary layer depth in semi arid region of India. *Int. J. of Dynamics of Atmospheres and Oceans* 49(2-3): 97-104. IF: 1.88

35. Shukla, Ripunjai, M. Trivedi and M. Kumar (2010) On the proficient use off GEV distribution: a case study off subtropical monsoon region in India. *Anale. Seria Informatics. Annals. Computer Science Series* 8: 81-92.
36. M. Trivedi, M. Kumar and Ripunjai Shukla (2010) Extreme Value Modeling of Maximum Temperature: A case study In *Humid Subtropical Monsoon Region in India. Statistics in Transition* 11(2): 91-104.
37. Pandey, Swati, M. Kumar, S. Chakraborty and N.C. Mahanti (2011) Analyzing the variability of rainfall for drought in Jharkhand state: A statistical approach. DOI: 10.1002/ird.627: *J. Irrigation & Drainage. Wiley Int. Publication.* 60(4): 556-566, IF: 1.108.
38. M. Kumar, Anil Kumar, Chinmay Mallik, N.C. Mahanti and A.M. Shekh (2010) Daytime Boundary Layer Behavior over eastern region (per humid climate) and Western regions (semi arid climate) of India- A Case Study. *J. Meteorology and Atmospheric Physics* 111(1-2): 55-64. Springer Publication. IF: 1.76
39. Manish Trivedi, M. Kumar and Repunjai Shukla (2010) Extreme Value Modelling of Maximum Temperature: A case study In *Humid Subtropical Monsoon Region in India. Statistics in Transition* 11(1): 58-74.
40. Manish Trivedi, M. Kumar and Kanhaiya Narayan Mishra (2010) Land Use / Land Cover Dynamics In A Coal Mining Area In Jharkhand State, Madhya Bharti, *Journal of Physical and Natural Sciences* 55: 100-111.
41. M. Kumar, Anil Kumar, N.C. Mahanti, Chinmay Mallik and Ripunjay K. Shukla (2009) Surface flux modelling using ARIMA technique in humid subtropical monsoon area. *J. Atmos. & Solar Terrestrial Physics* 71: 1293-1298.
42. Manish Trivedi, M. Kumar and Repunjai Shukla (2009) Statistical Modelling on Weather Parameters to develop Forest Fire Forecasting System. *Korean Journal of Applied Statistics* 22(1): 221-235.
43. M. Kumar, Vyas Pandey and A.M. Sheikh (2009) Diffusion resistance, leaf conductance, stomatal conductance and sensible heat flux in wheat crop as influenced by water stress at different plant growth stages. *World J. of Applied Sciences* 6(6): 793-801.
44. Swati Pandey, M. Kumar, S. Chakravorthy and N.C. Mahanti (2009) A Statistical Approach to Examine the Impact of Various Meteorological Parameters on Pan Evaporation. *Korean J. of Applied Statistics* 22(3): 515-530.

45. M. Kumar, Anil Kumar, N.C. Mahanti, Chinmay Mallik and Ripumjay K. Shukla (2009) Surface flux modeling using ARIMA technique in humid subtropical monsoon area. *J. Atmos. & Solar Terrestrial Physics* 71: 1293-1298.
46. M. Kumar, Chinmay Mallik, Anil Kumar, and N.C. Mahanti (2009) Thermodynamic Behavior of the Planetary Boundary Layer in a Semi Arid Region of India. *Int. J. of Dynamics of Atmospheres and Oceans*, Volume 49, Issues 2-3, page.97-104.
47. Manish Trivedi, M. Kumar and K.N. Mishra (2009) Land Use / Land Cover Dynamics In A Coal Mining Area In Jharkhand State, in Madhya Bharti. *Journal of Physical and Natural Sciences*. Vol. 55, 2010, pp. 100-111.

Book Chapter

1. Jyotsna Singh, **M. Kumar** and Bimal K. Bhattacharya (2011) Solar energy potential of two metropolitan cities of India. In: *Infrastructure-The Key to Development*; Rudra P. Pradhan (ed.). Macmillan Publishers India Ltd., pp. 652-663.

Proceedings in International/National

1. Jyotsna Singh, **M. Kumar**, and Bimal Kumar Bhattacharya (2011) Estimation of Diffuse Insolation for Nagpur, India. Paper presented in EGU General Assembly 2011 in Austria.
2. Jyotsna Singh, **M. Kumar** and Bimal K. Bhattacharya (2011) Solar energy potential of two metropolitan cities of India. In: *Proceedings of National Workshop on Infrastructure-The Key to Development*, at IIT Kharagpur.
3. **M. Kumar**, N.C. Mahanti, Jyotsna Singh, Ripunjai K. Shukla and Mita Pal (2011) Radiation budget during total and annular solar eclipses at Ranchi. In: *Proceedings - NOWROSE (TSE)* at VSSC, Trivandrum.
4. Kumari Lipi, **M. Kumar** and N.C. Mahanti (2011) Aerosol and black carbon over indo-gangetic basin during lighting festival (diwali) period in the indo-gangetic plains using aethalometer and back trajectory datasets. In: *Proceedings of National conference on climatic changes and sustainable development (ccsd-2011)* at RIET, Jaipur.
5. Jyotsna Singh, **M. Kumar** and Bimal K. Bhattacharya (2011) Solar Radiation Trend over Nagpur for Pre-Monsoon and Monsoon seasons during 1960-2003. In: *Proceedings of National Seminar on ICONGSECCES2010*. BHU, Varanasi.

6. Kumari Lipi, **M. Kumar**, N.C. Mahanti (2011) Aerosol Properties Over Ranchi Measured From Aethalometer. In: *Proceedings of 3rd National Seminar on Recent Approaches in Environmental Sciences* at Gwalior (M.P), India.
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8. Jyotsna Singh, **M. Kumar** and Bimal Kumar Bhattacharya (2011) Estimation of diffuse insolation for Nagpur, India. In: *Proceedings of EGU General Assembly 2011*. Austria Center Vienna, Austria.
9. B.S. Murthy, **M. Kumar** N.C. Mahanti, R. Lata and Jyotsna Singh (2010) Spectra of wind, soil moisture and rainfall in the atmospheric surface layer at BIT, Ranchi. In: *Proceedings-cum-Extended Abstract Volume of Workshop on CTCZ-PILOT: Initial Results*, pp. 179-182.
10. **M. Kumar**, A.K. Srivastava, B.M. Karan and A.K. Dwivedi (2010) Study of electric field during SW monsoon period associated with severe cyclone, AILA over Ranchi region. In: *Proceedings of Workshop on CTCZ-PILOT: Initial Results*, IITM Pune.
11. M.N. Patil, **M. Kumar**, R.T. Waghmare, T. Dharamraj and N.C. Mahanti (2010) Simulations of land surface parameters over Ranchi using NOAA LSM. In: *Proceedings of Workshop on CTCZ-PILOT: Initial Results*, IITM Pune.
12. **M. Kumar**, G.S. Bhat, N.C. Mahanti and Anil Kumar (2010) On the measurement of surface fluxes and radiation balance for the monsoon season of 2009 over extreme eastern end of active monsoon trough. In: *Proceedings of Workshop on CTCZ-PILOT: Initial Results*, IITM Pune.
13. **M. Kumar**, N.C. Mahanti, Mita Pal and Sangita Kumari (2010) Intercomparison and assessment of turbulent and physiological exchange parameters during monsoon phase over Ranchi. In: *Proceedings of Workshop on CTCZ-PILOT: Initial Results*, IITM Pune.
14. A.K. Srivastava, M. Mishra, **M. Kumar**, A.K. Dwivedi and P. Prakash (2010) Morkov chain method for lightning during pre-monsoon and monsoon season over Ranchi. In: *Proceedings of Workshop on CTCZ-PILOT: Initial Results*, IITM Pune, India.
15. Latha R, Murthy B S, Jyotsna Singh, **M. Kumar**, Srivastava, Dipu S and Pandithurai G (2010) Effect of dust and rain events on

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 18. M.N. Patil, **M. Kumar**, R.T. Waghmare, T. Dharamraj and N.C. Mahanti (2010) Simulations of land surface parameters over Ranchi using NOAH LSM. In: *Proceedings-cum-Extended Abstract Volume of Workshop on CTCZ-PILOT: Initial Results*, pp. 221-230.
 19. **M. Kumar**, G.S. Bhat, N.C. Mahanti, and Anil Kumar (2010) On the measurement of surface fluxes and radiation balance for the monsoon season of 2009 over extreme eastern end of active monsoon trough. In: *Proceedings-cum-Extended Abstract Volume of Workshop on CTCZ-PILOT: Initial Results*, pp. 231-238.
 20. **M. Kumar**, N.C. Mahanti, Mita Pal, and Sangita Kumari (2010) Intercomparison and assessment of turbulent and physiological exchange parameters during monsoon phase over Ranchi. In: *Proceedings-cum-Extended Abstract Volume of Workshop on CTCZ-PILOT: Initial Results*, pp. 239-250.
 21. A.K. Srivastava, M. Mishra, **M. Kumar**, A. K. Dwivedi, and P. Prakash (2010) Morkov chain method for lightning during pre-monsoon and monsoon season over Ranchi. In: *Proceedings-cum-Extended Abstract Volume "Workshop on CTCZ-PILOT: Initial Results"*, pp. 251-258.
 22. B.S. Murthy, **M. Kumar**, N.C. Mahanti, R. Lata and Jyotsna Singh (2010) Spectra of wind, soil moisture and rainfall in the atmospheric surface layer at BIT, Ranchi. In: *Proceedings-cum-Extended Abstract Volume of Workshop on CTCZ-PILOT: Initial Results*, pp. 179-182.
 23. Singh, Jyotsna, Bimal K Bhattacharya and **M. Kumar** (2010) Long term trend analysis of surface insolation and evaporation over selected climate types in India. *ISPRS Archives XXXVIII-*

8/W3 of Workshop on Impact of Climate Change on Agriculture, held at SAC (ISRO), Ahmedabad.

24. M. Trivedi, **M. Kumar** and Repunjai Shukla (2009) Comparison of Exponential Family Distributions in the context of Seasonal Cumulative Rainfall. In: *Proceeding of Seminar on Recent Trends in Statistics*. Jharkhand Statistical Society held at BAU, Ranchi.
25. Jyotsna Singh, Bimal K. Bhattacharya and **M. Kumar** (2009) Long term trend in surface insolation and evaporation in selected climate types of India. In: *Proceedings of ISPRS-GEO-ISRS International Workshop on Impact of Climate Change on Agriculture Space Applications Centre*, ISRO, Ahmedabad. ISPRS Archives XXXVIII-8/W3, pp.366-370.

Paper Presented in Accredited International Conferences/Seminar

1. M. Kumar had participated and presented a paper entitled 'Estimation of diffuse insolation for Nagpur, India' in EGU General Assembly 2011, Austria Center Vienna, Austria, 3rd to 8th April, 2011.
2. M. Kumar had participated and presented a paper entitled 'Surface layer parameters during pre-monsoon thunderstorm events during 2008-11 along eastern end of trough axis of India' in SAARC-STORM Workshop at Kathmandu, Nepal from 23rd to 25th December, 2011.
3. M. Kumar had participated and presented a paper entitled 'Drought severity assessment in various regions of Jharkhand state, India' in an International Conference on Environmental Challenges-A global concern at Kanya Mahavidyalaya, Jalandhar from 15th to 16th October, 2010.
4. M. Kumar had participated and presented a paper entitled 'Solar Energy Potential of Two Metropolitan Cities of India' in an International Conference on Infrastructure Finance (ICIF 2010), Organized by Vinod Gupta School of Management & RCG School of Infrastructure Design and Management, Indian Institute of Technology Kharagpur, India from 3rd to 5th June, 2010.
5. M. Kumar had participated and presented a paper entitled 'Long term trend analysis of surface insolation and evaporation over selected climate types in India' in ISPRS Archives XXXVIII-8/W3 Workshop on Impact of Climate Change on Agriculture, held at SAC (ISRO), Ahmedabad on 17th to 18th December, 2009.
6. M. Kumar had participated and presented a paper entitled 'An analysis on the impact of monsoon circulations on the UTLS over India' in a Workshop cum Brain storming meeting on Tropical

- Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
7. M. Kumar had participated and presented a paper entitled 'Land surface processes and influence of convection on tropospheric variation' in a Workshop cum Brain storming meeting on Tropical Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
 8. M. Kumar had participated and presented a paper entitled 'Comparison between the cirrus top altitudes and tropopause altitudes' in a Workshop cum Brain storming meeting on Tropical Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
 9. M. Kumar had participated and presented a paper entitled 'An analysis on the impact of monsoon circulations on the UTLS over India' in a two days Workshop cum Brain storming meeting on Tropical Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
 10. M. Kumar had participated and presented a paper entitled 'Land surface processes and influence of convection on tropospheric variation' in a two days Workshop cum Brain storming meeting on Tropical Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
 11. M. Kumar had participated and presented a paper entitled 'Comparison between the cirrus top altitudes and tropopause altitudes' in a two days Workshop cum Brain storming meeting on Tropical Tropopause Dynamics held at VSSC, Trivandrum from 24th to 25th January, 2012.
 12. M. Kumar had participated and presented a paper entitled 'Observations of total solar eclipse of 22 July 2009 and annular eclipse of 15 January 2010 and related atmospheric measurements' in NOWROSE (TSE) at VSSC, Trivandrum from 27th to 28th January, 2011.
 13. M. Kumar had participated and presented a paper entitled 'Observations of total solar eclipse of 22 July 2009 and annular eclipse of 15 January 2010 and related atmospheric measurements' in NOWROSE (TSE) at VSSC, Trivandrum.
 14. M. Kumar had participated and presented a paper entitled 'Study of electric field during SW monsoon period associated with severe cyclone, AILA over Ranchi region. "Workshop on CTCZ-PILOT: Initial Results, held at IITM Pune, from 28th to 30th April, 2010.
 15. M. Kumar had participated and presented a paper entitled

- ‘Simulations of land surface parameters over Ranchi using NOAA LSM’ in a Workshop on CTCZ-PILOT: Initial Results, held at IITM Pune, from 28th to 30th April, 2010.
16. M. Kumar had participated and presented a paper entitled ‘On the measurement of surface fluxes and radiation balance for the monsoon season of 2009 over extreme eastern end of active monsoon trough’ in a Workshop on CTCZ-PILOT: Initial Results, held at IITM Pune, from 28th to 30th April, 2010.
 17. M. Kumar had participated and presented a paper entitled ‘Intercomparison and assessment of turbulent and physiological exchange parameters during monsoon phase over Ranchi’ in a Workshop on CTCZ-PILOT: Initial Results held at IITM Pune, from 28th to 30th April, 2010.
 18. M. Kumar had participated and presented a paper entitled ‘Morkov chain method for lightning during pre-monsoon and monsoon season over Ranchi’ In a Workshop on CTCZ-PILOT: Initial Results held at IITM Pune, from 28th to 30th April, 2010.
 19. M. Kumar had participated and presented a paper entitled ‘Drought severity assessment in various regions of Jharkhand state, India’ in an International Conference on Environmental Challenges-A global concern at Kanya Mahavidyalaya, Jalandhar from 15th to 16th October, 2010.
 20. M. Kumar had participated and presented a paper entitled ‘Surface layer parameters during thunderstorm event and severe cyclone (AILA) along eastern end of trough axis. Delivered Invited talk in 2nd NDIMC conducted by NIDM, New Delhi MoES, GOI, from 4th to 6th November, 2009.

Dr. Bhaskar Singh

1. Abhishek Guldhe, **Bhaskar Singh**, Taurai Mutanda, Kugen Permaul, Faizal Bux. (2015) Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. Renewable and Sustainable Energy Reviews 41 (2015) 1447–1464
2. Indra Bahadur, Faizal Bux, Abhishek Guldhe, Kaniki Tumba, **Bhaskar Singh**, Deresh Ramjugernath, and Kandasamy G. Moodley. 2014. Assessment of Potential of Croton Gratissimus Oil for Macro-Scale Production of Biodiesel based on Thermophysical Properties. Energy and Fuels. Energy and Fuels, **2014**, 28 (12), pp 7576–7581 DOI: 10.1021/ef502270v
3. Yogesh C. Sharma, **Bhaskar Singh**, Devarapaga Madhu, Yun Liu, Zahira Yaakob. 2014. Fast Synthesis of High Quality Biodiesel from

- 'Waste Fish Oil' by Single Step Transesterification. *Biofuel Research Journal* 3 (2014) 78-80
4. Devarapaga Madhu, **Bhaskar Singh**, Yogesh C. Sharma. 2014. Studies on application of fish waste for synthesis of high quality biodiesel. *RSC Advances* 4 (2014) 31462-31468
 5. Abhishek Guldhe, **Bhaskar Singh**, Ismail Rawat, Faizal Bux. 2014. Synthesis of biodiesel from *Scenedesmus* sp. by microwave and ultrasound assisted in situ transesterification using tungstated zirconia as a solid acid catalyst. doi.org/10.1016/j.cherd.2014.05.012 0263-8762/©
 6. **B. Singh**, A. Guldhe, I. Rawat and F. Bux (2014) Towards a sustainable approach for development of biodiesel from plant and microalgae. *Renew Sust Energ Rev.* **29**: 216-245. Elsevier. ISSN: 1364-0321, Cited By in Scopus (6)
 7. Guldhe, **B. Singh**, I. Rawat, K. Ramluckhan and F. Bux (2014) Efficacy of drying and cell disruption techniques on lipid recovery from microalgae for biodiesel production. *Fuel* **128**: 46-52.
 8. Guldhe, **B. Singh**, I. Rawat and F. Bux (2014) Synthesis of biodiesel from *Scenedesmus* sp. By microwave and ultrasound assisted in-situ transesterification using tungstated zirconia as a solid acid catalyst. *Chemical Engineering Research and Design* **92**: 1503-1511.
 9. Y.C. Sharma, **B. Singh**, D. Madhu, Y. Liu and Z. Yaakob (2014) Fast Synthesis of High Quality Biodiesel from 'Waste Fish Oil' by Single Step Transesterification. *Biofuel Research Journal* **2**:70-76
 10. A. Birla, **B. Singh**, Y.C. Sharma and S.N. Upadhyay (2012) Kinetics studies of synthesis of biodiesel from waste frying oil using a heterogeneous catalyst derived from Snail shell *Bioresourc Technol.* **106**: 95-100. ISSN: 0960-8524, Elsevier Publication. Cited By in Scopus (22)
 11. Y.C. Sharma, S. Agrawal, **B. Singh** and A.E.N. Frometa (2012) Synthesis of economically viable biodiesel from waste frying oils (WFO). *The Cana J of Chem Eng.* **90**: 483-488. ISSN: 1939-019X, **Wiley Online Library**.
 12. S. Agrawal, **B. Singh** and Y.C. Sharma (2012) Exoskeleton of a mollusk (*Pila globosa*) as a heterogeneous catalyst for synthesis of biodiesel using used frying oil. *Ind. Eng. Chem. Res.* DOI: 10.1021/ie202404r, ISSN: 0888-5885, ACS Publications. Cited By in Scopus (5)
 13. Y.C. Sharma, **B. Singh** and S. Agrawal (2012) A low cost synthesis of biodiesel at room temperature and purification of by-product- glycerol for reuse. *Biomass Conv Bioref.* **2**: 63-71. ISSN: 2190-6815, **Springer Publication**.
 14. P. Nair, **B. Singh**, Y.C. Sharma and S.N. Upadhyay (2012) Synthesis of biodiesel from waste frying oil using calcium oxide derived from

- Mereterix mereterix* as a heterogeneous catalyst. *J. Clean. Prod.* **29-30** 82-90, ISSN: 0959-6526, Elsevier. Cited By in Scopus (11)
15. **Singh**, A. Birla, S.N. Upadhyay and Y.C. Sharma (2012) Synthesis of biodiesel using a new heterogenous catalyst, potassium fluoride (KF) supported by hydrotalcite and process optimization by Box–Behnken design. *Biomass Conv Bioref.* **2**: 317-325. ISSN: 2190-6815, **Springer Publication.**
 16. **Singh**, J. Korstad and Y.C. Sharma (2012) A critical review on corrosion of compression ignition (CI) engine parts by biodiesel and biodiesel blends and its inhibition. *Renew Sust Energ Rev.* **16**: 3401-3408. **Elsevier Publication.** ISSN: 1364-0321 Cited By in Scopus (12)
 17. S. Agrawal, **B. Singh**, A.E.N. Frometa and Y.C. Sharma (2012) Commercial- and whitewashing-grade limestone as a heterogeneous catalyst for synthesis of fatty acid methyl esters from used frying oil (UFO). *Biomass Conv. Bioref.* **2**: 297-304. ISSN: 2190-6815, **Springer Publication.**
 18. **B. Singh**, F. Bux and Y.C. Sharma (2011) Comparison of homogeneous and heterogeneous catalysis for synthesis of biodiesel from *M. indica* oil. *Chem Ind Chem Eng Q.* **17**: 117-124. ISSN: 1451-9372, KoBSON Cited By in Scopus (1)
 19. Y.C. Sharma, **B. Singh** and J. Korstad (2011) Latest developments on application of heterogenous basic catalysts for an efficient and eco friendly synthesis of biodiesel: A review. *Fuel* **90**: 1309-1324. **Elsevier Publication.** ISSN: 0016-2361, Cited By in Scopus (60)
 20. Y.C. Sharma, **B. Singh** and J. Korstad (2011) Advancements in solid acid catalysts for ecofriendly and economically viable synthesis of biodiesel. *Biofuel Bioprod Bior* **5**: 69-92. Society of Chemical Industry (SCI) and John Wiley & Sons Ltd. ISSN: 1932-1031, Cited By in Scopus (44)
 21. Y.C. Sharma, **B. Singh** and J. Korstad (2011) A critical review of recent methods used for economically viable and eco-friendly development of microalgae as a potential feedstock for synthesis of biodiesel. *Green Chemistry* **13**: 2993-3006. Royal Society of Chemistry (RSC) Publishing. ISSN: 1463-9262 Cited By in Scopus (25)
 22. Y.C. Sharma and **B. Singh** (2010) An ideal feedstock, kusum (*Schleichera triguga*) for preparation of biodiesel: Optimization of parameters. *Fuel* **89**: 1470-1474. **Elsevier Publication.** ISSN: 0016-2361, Cited By in Scopus (20)
 23. Y.C. Sharma, **B. Singh** and J. Korstad (2010) High yield and conversion of biodiesel from a non-edible feedstock (*Pongamia pinnata*). *J Agr Food Chem.* **58** 242-247. ACS Publications. ISSN: 0021-8561, Cited By in Scopus (18)

24. Y.C. Sharma, **B. Singh** and J. Korstad (2010) Application of an efficient nonconventional heterogeneous catalyst for biodiesel synthesis from *Pongamia pinnata* oil. *Energ Fuel*. **24**: 3223-3231. ACS Publications. ISSN: 0887-0624, Cited By in Scopus (30)
25. Y.C. Sharma and **B. Singh** (2010) A Hybrid feedstock for a very efficient preparation of biodiesel *Fuel Process Technol.* **91**: 1267-1273. ACS Publications. ISSN: 0378-3820, Cited By in Scopus (6)
26. Y.C. Sharma and **B. Singh** (2009) Development of biodiesel: Current scenario *Renew Sust Energ Rev.* **13**: 1646-1651. **Elsevier Publication**. ISSN: 1364-0321, Cited By in Scopus (137)
27. Y.C. Sharma, **B. Singh** and Uma (2009) Fast Removal of Malachite Green by Adsorption on Rice Husk Activated Carbon. *The Open Environmental Pollution & Toxicology Journal* **1**: 74-78. Benthamscience. ISSN: 1876-3979.

Book Chapters

1. **Singh B**, Guldhe A, Singh P, Singh A, Rawat I, Bux F. Sustainable production of biofuels from Microalgae using a biorefinary approach. Editor: Garima Kaushik. **Springer, India, 2015**, Chapter # 8.
2. **B. Singh**, Y. Liu and Y.C. Sharma (2013) Synthesis of biodiesel/bio-oil from microalgae. In: *Biotechnological Applications of Microalgae: Biodiesel and value-added products*; Faizal Bux (ed.). CRC Press (Taylor & Francis Group), USA, Chapter # 8, pp: 99-112. ISBN:978-1-4665-1529-1
3. **B. Singh**, S.N. Upadhyay, D. Mohan and Y.C. Sharma (2011) Emergence of base catalyst for synthesis of biodiesel. In: *Green Chemistry for Environmental Remediation*; Rashmi Sangha and Vandana Singh (eds.). Scrivener Publishing LLC, USA, Chapter # 9, pp: 251-289. ISBN: 9780470943083
4. Sharma Y.C., **Singh B.** and Upadhyay S.N. (2010) Prospects of heterogeneous catalysts in biodiesel development. In: *Handbook of Sustainable Energy (Energy Science, Engineering and Technology Series)*; W.H. Lee and V.G. Cho (eds.). Nova Science. Publishers, Inc., Hauppauge, NY, 2010. 11788. USA. ISBN: 978-1-60876-263-7, Chapter # 12, pp: 487-520.

Book

1. **Bhaskar Singh**, Kuldeep Bauddh, Faizal Bux. 2014. Editors: Name of Edited Book: Algae and Environmental Sustainability. Publisher: Springer (India) Pvt. Ltd.

Paper Presented in Accredited International Conferences/Seminar

- 1) **Dr. B. Singh** had participated and **presented** a poster entitled “Characterization of CaO used as a heterogeneous catalyst for synthesis of biodiesel” in a three days **International Conference** on Recent Advances

- in Analytical Science (RAAS-2014) organized by Department of Chemistry, IIT (Banaras Hindu University), Varanasi, India from 27th to 29th March, 2014.
- 2) **Dr. B. Singh** had participated and **presented** a paper entitled ‘Efficacy of drying and cell disruption techniques on lipid recovery from microalgae for biodiesel production’ in an **International Conference** on Applied Energy in Pretoria, South Africa during July, 2013.
 - 3) **Dr. B. Singh** had participated and **presented** a paper entitled ‘Comparison of homogeneous and heterogeneous catalytic methods for biodiesel synthesis from *Chlorella vulgaris*’ in 3rd **International conference** on Algal Biomass, Biofuel and Bioproducts in Toronto, Canada during June 2013.
 - 4) **Dr. B. Singh** had participated and **presented** a paper entitled ‘Study of fuel properties of biodiesel derived from used frying oil using hydrotalcite supported on KF as heterogeneous catalyst’ in a three days **International Conference** on Recent Advancement in Chemical Engineering and Technology organized by Indian Institute of Chemical Engineers, Kochi, India from 10th to 12th March, 2011.
 - 5) **Dr. B. Singh** had participated and **presented** a paper entitled ‘Ocean foam as a source of heterogeneous catalyst for biodiesel synthesis’ in a three days **International Conference** on Recent Advancement in Chemical Engineering and Technology organized by Indian Institute of Chemical Engineers, Kochi, India from 10th to 12th March, 2011.
 - 6) **Dr. B. Singh** had participated and **presented** a poster entitled ‘Anhydrous FeCl₃ loaded on zirconia tetrahydroxide as a novel solid acid catalyst for the synthesis of biodiesel’ in an **International Conference** on Green Chemistry (ICGC) organized by Central University of Rajasthan, Jaipur during 2011.

Year	No. of Citations
2015	47
2014	366
2013	402
2012	294
2011	214
2010	133
2009	104

(E) Impact Factor – Range and Average

Impact Factor varies in the range: **2.0 to 6.852**

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

No. of SCOPUS Indexed Papers: 21

(H) h-index / i10-index:

h - index: 14

i10 – index: 16

Dr. Purabi Saikia

(A) **Research Papers in Peer Reviewed/Indexed National/International Journals:**

1. **P. Saikia** and M.L. Khan (2014) Homegardens of upper Assam, northeast India: a typical example of on farm conservation of Agarwood (*Aquilaria malaccensis* Lam.). *International Journal of Biodiversity Science, Ecosystem Services & Management* 2014: 1-8. **ISSN: 2151-3732 (Print); 2151-3740 (Online); Taylor & Francis.**
2. **P. Saikia** and M.L. Khan (2014) Ecological features of cultivated stands of *Aquilaria malaccensis* Lam. (Thymelaeaceae) - a vulnerable tropical tree species in Assamese homegardens. *International Journal of Forestry Research* 2014: 1-16. **ISSN: 1687-9368 (Print), 1687-9376 (Online); Hindawi Publishing Corporation; Citation: 1**
3. **P. Saikia** and M.L. Khan (2013) Population structure and regeneration status of *Aquilaria malaccensis* Lam. in homegardens of upper Assam, NE India. *Tropical Ecology* 54(1): 1-13. **ISSN: 0564-3295; Impact Factor: 0.551; Citation: 3**
4. **P. Saikia**, B.I. Choudhury and M.L. Khan (2012) Floristic composition and plant utilization pattern in homegardens of Upper Assam, India. *Tropical Ecology* 53(1): 105-118. **ISSN: 0564-3295; IF: 0.551; Citation: 8**
5. **P. Saikia** and M.L. Khan (2012) *Aquilaria malaccensis* Lam., a Red-listed and highly exploited tree species in Assamese home garden. *Current Science* 102(4): 546-547. **ISSN: 0011-3891; IF: 0.833; Citation: 2**
6. **P. Saikia** and M.L. Khan (2012) Agar (*Aquilaria malaccensis* Lam.): a promising crop in the homegardens of Upper Assam, northeastern India. *Journal of Tropical Agriculture* 50: 8-14. **ISSN: 0971-636X (Print); 0973-5399 (Online) Citation: 3**
7. **P. Saikia** and M.L. Khan (2012) Seedling survival and growth of *Aquilaria malaccensis* Lam. in different microclimatic conditions of northeast India. *Journal of Forestry Research* 23(4): 569-574. **ISSN: 1007-662X (Print); 1993-0607 (Electronic); Springer Publication; Citation: 1**
8. S. Bharali, J. Deka, **P. Saikia**, M.L. Khan, A. Paul, O.P. Tripathi, L.B. Singha and Uma Shankar (2012) *Pinus merkusii* Jungh et de Vries - a

- vulnerable gymnosperm needs conservation. *NeBIO* 3(1): 94-95. **ISSN: 0976-3597 (Print); Citation: 1**
9. **P. Saikia** and M.L. Khan (2011) Diversity of medicinal plants and their uses in homegardens of upper Assam, Northeast India. *Asian Journal of Pharmaceutical and Biological Research* 1(3): 296-309. **ISSN: 2231-2218 (Online); Citation: 2**
 10. **P. Saikia** and M.L. Khan (2014) Status, distribution and socio-cultural uses of some selected homegarden plants of upper Assam, Northeast India. *Bharatiya Samajik Chintan (ISSA)* 13(3) (in press).
 11. **P. Saikia** and M.L. Khan (2012) Phenology, seed biology and seedling survival and growth of *Aquilaria malaccensis*: A highly exploited and red listed tree species of Northeast India. *The Indian Forester* 138(3): 289-295. **ISSN: 0019-4816; Citation: 1**
 12. L. Zimik, **P. Saikia** and M.L. Khan (2012) Comparative study on homegardens of Assam and Arunachal Pradesh in terms of species diversity and plant utilization pattern. *Research Journal of Agricultural Sciences (An International Journal)* 3(3): 611-618. **ISSN: 0976-1675; Citation: 2**
 13. **P. Saikia** and M.L. Khan (2009) Conservation and diversity of medicinal plant in homegardens of Teok area of Jorhat district, Assam. In: B. Singh, P. Rethy and P.R. Gajurel (eds). *Proceedings of national seminar on Agroforestry for Socioeconomic Development of North Eastern Region*. Department of Forestry, NERIST (Deemed University), Arunachal Pradesh, pp. 152-161.

(B) Papers presented in National/International Conferences/Seminars/etc.

1. **P. Saikia**, J. Deka, S. Bharali, O.P. Tripathi and M.L. Khan (2014) Study on tree population status and diversity in West Kameng district of Arunachal Pradesh, Eastern Himalaya. **Paper Presented** and abstract published in page 69 of the Book of Abstracts of an International event **Tropical Ecology Congress, 2014** on ‘*Tropical Ecosystem in a changing world*’ organized by School of Environmental Sciences, JNU, New Delhi.
2. **P. Saikia** and M.L. Khan (2013) Cultivation of Agar (*Aquilaria malaccensis* Lam.) in homegardens of upper Assam, Northeast India and its prospect in socioeconomic development. **Paper presented** and abstract published in page 42 of the *Proceedings of the 1st International Scientific Symposium on Agarwood (ISSA) on ‘Agarwood in the New Era’* organized by Faculty of Forestry, Universiti Putra Malaysia, Malaysia.
3. **P. Saikia** and Ashalata Devi (2012) Cultivation and prospects of energy crop in homegardens of upper Assam, northeast India. **Paper presented** and abstract published in page 210 of the *Proceedings of the International seminar and workshop on ‘Energy, sustainability and*

development (ISWESD) with special focus on Nanoscience and Nanotechnology' organized by Department of Physics, Sibsagar College, Joysagar, Assam in collaboration with CSIR-NEIST, Jorhat, Assam.

4. **P. Saikia** (2012) Population status of *Aquilaria malaccensis* Lam.: a critically endangered tree species of India in Assamese homegardens. **Paper presented** and abstract published in page 36 in the *Proceedings of the International conference on 'Biodiversity and sustainable energy development'* organized by OMICS Publishing Group, USA at HICC, Hyderabad, India.
5. **P. Saikia** and M.L. Khan (2011) Homegarden: An approach for on farm conservation of *Aquilaria malaccensis* Lam. **Paper presented** and abstract published in pages 6-7 in the *Abstract volume of the National Seminar on Present environment and strategy for biodiversity conservation* organized by Department of Economics, Dhemaji Commerce College, Dhemaji, Assam in collaboration with Dhemaji-Dhakuakhana zone, ACTA.
6. **P. Saikia** and M.L. Khan (2011) Conservation and management practices of plant genetic resources in homegardens of Teok area of Jorhat district, Assam. **Paper presented** and abstract published in page 84 in the *Abstracts of the papers of the National Seminar on Plant resource management and conservation strategies in NE region* organized by Department of Botany, Cotton College, Guwahati, Assam in collaboration with ASTEC, Guwahati, Assam.
7. **P. Saikia** and M.L. Khan (2009) Diversity and Prospects of Biodiesel producing species in NE India. **Paper presented** and abstract published in page 138 in the *Proceedings of Regional Seminar on Biofuels in North East India: Issues and Prospects* organized by the Department of Mechanical Engineering, NERIST (Deemed University), Arunachal Pradesh.
8. **P. Saikia** and M.L. Khan (2009) Conservation of *Aquilaria malaccensis* Lam. in homegardens of upper Assam, NE India. **Paper presented** and abstract published in page 43 in the *Abstracts of papers of the National Seminar on Exploration, Utilization and Strategy Action Plan for Sustainable Management of Plant Resources* organized by the Department of Botany, Gauhati University, Guwahati, Assam.

(C) Books/Monographs/Edited Books: Nil

(D) Chapter(s) in Books: Nil

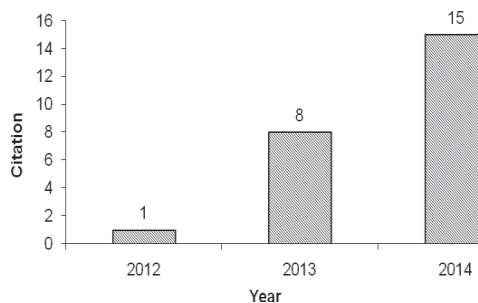
(E) Impact Factor – Range and Average

Impact Factor varies in the range: **0.551 to 0.883**

(F) Citation Index – Range and Average: (*As per Google Scholar Citation Results/Scopus*)

Year	No. of Citations
2014	15
2013	08

2012	01
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(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

No. of SCOPUS Indexed Papers:

Total Indexed Papers: 09

(H) h-index / i10-index:

h - Index: 03

i10 – index: 00

Dr. Kuldeep Bauddh

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. **Bauddh, K.** and Singh R.P. 2014. Studies on bio-accumulation and partitioning of Cd in *Brassica juncea* and *Ricinus communis* in presence of vermicompost, chemical fertilizers, biofertilizers and customized fertilizers. *Ecological Engineering*. 74: 93-100. [Impact Factor: ISI=3.041]
2. Kumar, S., **Bauddh, K.**, Barman, S.C., Singh, R.P. 2014. Amendments of microbial biofertilizers and organic substances reduces requirement of urea and DAP with enhanced nutrient availability and productivity of wheat (*Triticum aestivum* L.). *Ecological Engineering*, 71, 432-437. [Impact Factor: ISI=3.041]
3. M. Sainger, A. Sharma, **K. Bauddh**, P. A. Sainger and R. P. Singh (2014) Remediation of nickel contamination from the sub-tropical soil of northern India using Indian mustard (*Brassica juncea* L.) and effect of the metal on growth, nitrate assimilation, diamine metabolism and proline accumulation in the plant. *Bioremediation Journal* **18**: 100-110. Impact Factor: ISI=0.728.
4. N. Kumar, S. Kumar, **K. Bauddh**, N. Dwivedi, D.P. Singh and S.C. Barman (2014) Toxicity assessment and accumulation of metals in radish irrigated with battery manufacturing industry effluent. *International Journal of Vegetable Science* (in press). DOI: 10.1080/19315260.2014.880771.
5. N. Kumar, S. Kumar, **K. Bauddh**, N. Dwivedi, D.P. Singh and S.C. Barman (2014) Toxicity assessment of flash light manufacturing

- industry effluent by bioassays. *Journal of Environmental Biology* 35: 1107-1113. Impact Factor: ISI=0.64.
6. N. Kumar, **K. Buddh**, S. Kumar, N. Dwivedi, D.P. Singh and S.C. Barman (2014) Heavy metal uptake by plants naturally grown on industrially contaminated soil and their phytoremediation potential. *Ecological Engineering* 61: 491–495. Impact Factor: ISI=3.041
 7. M. Kumar, **K. Buddh**, M. Sainger, P.A. Sainger and R.P. Singh (2014) Increase in growth, productivity and nutritional status of wheat (*Triticum aestivum* L.) and enrichment in soil microbial population applied with biofertilizers entrapped with organic matrix. *Journal of Plant Nutrition* (in press). Impact Factor: ISI=0.526.
 8. S.V. Ghavri, S. Kumar, **K. Buddh** and R.P. Singh (2013) Enrichment coefficient and translocation factors of Fe and Cu in weeds growing in Sandila Industrial Area, Hardoi District, Uttar Pradesh, India. *Geophytology* 43(2): 153-161.
 9. S. Kumar, **K. Buddh**, S.C. Barman and R.P. Singh (2014) Organic Matrix Entrapped Bio-Fertilizers Increase Growth, Productivity and Yield of *Triticum aestivum* L. and Mobilization of NO_3^- , NO_2^- , NH_4^+ and PO_4^{3-} from Soil to Plant Leaves. *Journal of Agricultural Sciences and Technology* 16: 315-329. [Impact Factor: ISI=0.426]
 10. S. Kumar, **K. Buddh**, S.C. Barman and R.P. Singh (2014) Amendments of microbial biofertilizers and organic substances reduces requirement of urea and DAP with enhanced nutrient availability and productivity of wheat (*Triticum aestivum* L.). *Ecological Engineering*. DOI:<http://dx.doi.org/10.1016/j.ecoleng.2014.07.007> Impact Factor: ISI=3.014
 11. **K. Buddh** and R.P. Singh (2014) Comparative potential of castor bean (*Ricinus communis* L.) and Indian mustard (*Brassica juncea* L.) for tolerance and phytoremediation of nickel from nickel containing soil. *Bioremediation Journal* (Accepted). MID: BBRM-2014-004-OA). Impact Factor: ISI=0.728.
 12. N. Kumar, **K. Buddh**, S. Kumar, N. Dwivedi, D.P. Singh and S.C. Barman (2013) Extractability and phytotoxicity of heavy metals present in petrochemical industry sludge. *Clean Technology and Environmental Policy* 15: 1033–1039. Impact Factor: ISI=1.671
 13. M. Kumar, **K. Buddh**, S. Kumar, M. Sainger, P.A. Sainger and R.P. Singh (2013) Increase in growth, productivity and nutritional status of wheat (*Triticum aestivum* L. C.v. Wh-711) and enrichment in soil fertility applied with organic matrix entrapped urea. *Journal of Environmental Biology* 34: 1-9. Impact Factor: ISI=0.624.
 14. S. Kumar, **K. Buddh**, S.C. Barman and R.P. Singh (2013) Evaluation of conventional and Organic matrix entrapped urea and diammonium phosphate for growth and productivity of *Triticum aestivum* L. and mobilization of NO_3^- , NO_2^- , NH_4^+ and PO_4^{3-} from soil to plant leaves.

- International Journal of Agronomy and Plant Production* **4**(6): 1357-1368. [Impact Factor: ISI=0.426].
15. S.V. Ghavri, S. Kumar, **K. Bauddh** and R.P. Singh (2013) Enrichment coefficient and translocation factors of Fe and Cu in weeds growing in Sandila Industrial Area, Hardoi District, Uttar Pradesh, India. *Geophytology* **43**(2): 153-161.
 16. S.V. Ghavri, **K. Bauddh**, S. Kumar and R.P. Singh (2013) Bioaccumulation and translocation potential of Na⁺ and K⁺ in native weeds grown on industrially contaminated soil. *International Journal of Chem Tech Research* **5**(4): 1869-1875.
 17. **K. Bauddh** and R.P. Singh (2012) Growth, tolerance efficiency and phytoremediation potential of *Ricinus communis* (L.) and *Brassica juncea* (L.) in salinity and drought affected cadmium contaminated soil. *Ecotoxicology and Environmental Safety* **85**: 13-22. [Impact Factor: ISI=2.403; NAAS=7.7].
 18. **K. Bauddh** and R.P. Singh (2012) Cadmium tolerance and its phytoremediation by two oil yielding plants *Ricinus communis* (L.) and *Brassica juncea* (L.) from the contaminated soil. *International Journal of Phytoremediation* **14**: 772-785. [Impact Factor: ISI=1.238].
 19. M. Kumar, **K. Bauddh**, M. Sainger, P.A. Sainger, J.S. Singh and R.P. Singh (2012) Increase in growth, productivity and nutritional status of rice (*Oryza sativa* L. c.v. Basmati) and enrichment in soil fertility applied with an organic matrix entrapped urea. *Journal of Crop Science and Biotechnology* **15**(2): 137-144.
 20. N. Kumar, **K. Bauddh**, S.C. Barman and D.P. Singh (2012) Accumulation of metals in selected macrophytes grown in mixture of drain water and tannery effluent and their phytoremediation potential. *Journal of Environmental Biology* **33**: 323-327. [Impact Factor: ISI=0.624; NAAS=6.0].
 21. **K. Bauddh** and R.P. Singh (2011) Differential toxicity of cadmium to mustard (*Brassica juncea* L.) genotypes is not maintained at higher metal level. *Journal of Environmental Biology* **32**: 355-362. [Impact Factor: ISI=0.68; NAAS=6.0].
 22. P. Bhaskar, **K. Bauddh** and R.P. Singh (2009) Differential response of two high yielding cultivars of Indian mustard (*Brassica juncea* L.) to NaCl salinity during seed germination and early seedling growth. *Journal of Ecophysiology and Occupational Health* **9**: 137-144.
 23. N. Kumar, S. Kumar, **K. Bauddh**, K. Anand, N. Dwivedi and D.P. Singh (2009) Phytotoxicity of industrial effluent to *Raphanus sativus* L. and *Trigonella foenumgracum* L. *Journal of Ecophysiology and Occupational Health* **9**: 163-169.

Articles published in magazines

1. **Bauddh K.** *Ricinus communis* a multipurpose crop for sustainable environment. **Dream-2047**, 16(11), 31-32.
2. Singh, M. and **Bauddh, K.** (2014) Application of Scientific information in commercial advertisements. **Science Reporter** August, 18-19.
3. **Bauddh K.**, Kumar S. and Ghavri S.V. (2011). Two-in-One Plants. **Science Reporter**, March, 2011, pp: 16-17.
4. Mishra G., **Bauddh K.** and Kumar A., (2010). An herb which has properties to cure common cold and even cancer. **Kurukshetra: A Journal on Rural and Development** 58 (4) pp: 24-26.
5. Kumar A., Singh M. and **Bauddh K.** (2010). Women and child health profile in Uttar Pradesh. **Kurukshetra: A Journal on Rural and Development**, 58 (11) pp: 44-47.
6. **Bauddh K.** and Kumar S. (2009). Phytoremediation: a novel approach to clean up the polluted sites. **Kurukshetra: A Journal on Rural and Development**, 57 (8) pp: 43-45.

(B) Papers presented in National/International Conferences/Seminars/etc.

- 1 **Dr. K. Bauddh** had participated and **presented** a paper entitled “Studies on bio-accumulation and partitioning of Cd in *Brassica juncea* and *Ricinus communis* in presence of vermicompost, chemical fertilizers, biofertilizers and customized fertilizers” in a three days **International Conference** on Environmental Technology and Sustainable Development-Challenges & Remedies organized by Department of Environmental Science, BBA University, Lucknow, U.P., India from 21st to 23rd February, 2014.
- 2 **Dr. K. Bauddh** had participated and **presented** a paper entitled ‘A comparative study on biomass accumulation, antioxidant compounds and cadmium accumulation in *Brassica juncea* (L.) and *Ricinus communis* (L.) grown in cadmium contaminated tropical soil’ in Fourth **International Conference** on Plants & Environmental Pollution (ICPEP-4) organized by National Botanical Research Institute & International Society of Environmental Botanists, Lucknow (India) from 8th to 11th December, 2011.
- 3 **Dr. K. Bauddh** had participated and **presented** a paper entitled “Differential toxicity.....plants” in National Conference on “Challenges in life sciences with changing environment” Organized by Sacred Heart Degree College, Sitapur in collaboration with Professor

H.S. Srivastava Foundation for Science and Society on 20-21, Feb, 2010.

(C) Books/Monographs/Edited Books

1. Bhaskar Singh, Kuldeep Bauddh, Faizal Bux. 2014. Editors: Name of Edited Book: Algae and Environmental Sustainability. Publisher: Springer (India) Pvt. Ltd.

(D) Chapter(s) in Books

1. Singh R.P., **Bauddh K.**, Sainger M., Sainger, P.A., Singh, J. and Jaiwal P.K. Nitrogen use efficiency in higher plants under drought, high temperature, salinity and heavy metal contaminations. Jain, V. and Kumar, P.A. (2011). (Eds). Nitrogen Use Efficiency in Higher Plants. New India Publishing Agency (India) Pvt. Ltd. Pp: 99-123.
2. Singh R.P., Sainger M., **Bauddh K.**, Senger R.S. and Jaiwal P.K. (2010) Sustained nutrient supply reduced nutrient loss and high plant productivity with slow release fertilizers. Senger R.S. and Sharma A.K. (Eds). 2010. Stable Food Production and Sustainable Agriculture. Studium Press (India) Pvt. Ltd. Pp: 62-79.
3. **Bauddh, K.**, Sainger, M., Kumar, S., Sainger, P. A., Singh, R.P. (2015) Biotechnological approaches to mitigate adverse effects of extreme climatic factors on plant productivity (In Press).

(E) Impact Factor – Range and Average

Impact Factor varies in the range: 0.68 to 3.041

(F) Citation Index – Range and Average: (As per Google Scholar Citation Results/Scopus)

Year	No. of Citations
2014	54
2013	30
2012	16
2011	04
2010	0
2009	0
2008	0

Citation indices	All	Since 2010
Citations	112	112
h-index	6	6
i10-index	3	3

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

No. of SCOPUS Indexed Papers:

(H) h-index / i10-index:

h - index : 06

i10 – index: 03

CENTRE FOR NANOTECHNOLOGY

1. Name of the Department: Centre for Nanotechnology

2. Year of establishment: 2010

3. Is the Centre part of a School/Faculty of the University? Yes, School of Engineering and Technology

4. Names of Programmes/Courses offered: PhD and 5 years Integrated Masters in Technology

5. Interdisciplinary Programmes/Courses and Centres involved:

Materials Science, Solid State Technology, Microscopy, Spectroscopy, Nano Biotechnology, Self Assembly and Polymer Engineering, Diffraction Techniques Fuel Cell Technology, Advance Functional materials and Devices, Vacuum Science and Technology, Non Destructive testing, Diffraction Techniques, Analytical Techniques, Concepts in Theoretical Physics, Nanobiotechnology

Departments involved: Applied Physics, Applied Chemistry, Life Science

6. Courses in collaboration with other universities, industries, foreign institutions, etc : Nil

7. Details of Programmes discontinued, if any, with reasons: NA

8. Examination System: Semester/ Choice Based Credit System

9. Participation of the Centre in the courses offered by other Centres:

Mathematics for Chemistry, Materials Chemistry,

Departments involved: Applied Chemistry

10. Number of teaching posts sanctioned and filled and actual

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	0	-
Associate Professor	02	0	-
Assistant Professor	03	03	-

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
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A.S.Bhattacharyya	M. Sc, M. Tech, PhD	Asst. Professor	Surface and Thin Films	4 (Teaching) 6 (Research)	2
Gajendra Prasad Singh	M Sc, M. Tech, PhD	Asst. Professor	Nanomaterials, Energy Materials	5 (Teaching) 6 (Research)	2
Lawrence Kumar	M.Sc, M. Tech, PhD	Asst. Professor	Magnetic Materials	4 (Teaching) 2 (Research)	0

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:
Nil

13. Percentage of classes taken by temporary faculty (Programme-Wise Information):

Integrated M.Tech: 25 % ; PhD: 0%

14. Programme-Wise Student Teacher Ratio: Integrated M.Tech- 25:1; PhD – 1:1

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: 01 Lab Attendant.

16. Research thrust areas as recognized by major funding agencies:
Nanomaterials, Energy Materials, Sensors, Magnetic Materials, Multiferroics, Polymer Materials, and Surface Engineering.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

No .of Faculties with ongoing projects: 02

Name of teacher	Title of project	Cost (Rs)	Duration	Date of sanction & Current	Funding Agency

				Status	
Gajendra Prasad Singh	<i>Synthesis and Characterization of Electromagnetic Wave Absorption Properties of Ferrite based Nanocomposites for High Speed Communication Applications</i>	16.44 lac	3 years	ongoing	DST
A.S.Bhattacharyya	<i>Plasma Surface Modifications of BMI coatings on Al sheets</i>	Total (12.96 Lacs) Rs. 6.6 Lacs received till date	3 years	September 2012 Ongoing	DST

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration:

(b) International Collaboration:

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:

S.No	Title of the Project	Funding Agency	Total Grants Received (Rs)	Principle Investigator	Status
1.	Centre of Excellence in Green Energy and Efficient Technology	MHRD	150 Lacs (Till date)	A.S.Bhattacharyya (Jointly)	Started

20. Research facility / Centre with: Nil

(a) State Recognition:

(b) National Recognition

(c) International Recognition:

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications in Last Five Years:

Name of Teacher	Impact Factors/citation Index/ hindex and i10 index	Publication(s) in Journals/Books/Edited Volume/Monograph/others (Details in Annexure)
Dr. Gajendra Prasad Singh	Impact Factor – Range: 0.3 - 3.84 and Average : 2.18 Citation Index – Total Citations: 106; Range: 1- 45 and Average: 7 h-index / i10-index: 4/2	International Journals : 40 National/International Conferences/Seminars/etc.: 13 Book Chapters: 5
Dr. A. S. Bhattacharyya	Citation Index: Total Citations: 90; Range : 1 – 38 ; Average : 6 h-index: 5 / i10-index: 3	
Dr. Lawrence Kumar	Impact Factor – Range: 1 – 3 and Average : 1.07 Citation Index: Total Citations: 92; Range: 1 – 37; Average : 5	

Name of important abstract/paper indexing agencies where your papers are indexed : Google citations

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Dr. Gajendra Prasad Singh visited Department of Physics, Kansas State University, Kansas, USA under BOYSCAST fellowship.

26. Faculty serving in:

(a) National Committees

(b) International Committees

(c) Editorial Boards: A.S.Bhattacharyya, Editorial Board, Indian Journal of Materials Science

(d) Any Other Please Specify: A.S.Bhattacharyya, Reviewer of The 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Shanghai, China

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Name	Program	Institution
Dr. G.P.Singh	Orientation Program	UGC-ASC, Ranchi University
	Refresher Course	UGC-ASC, Calicut University
Dr. A.S.Bhattacharyya	Orientation Program	UGC-ASC, Jadavpur University
Dr. Lawrence Kumar	Orientation Program	UGC-ASC, Ranchi University

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects

B. Tech (100%)

(b) Percentage of students doing projects in collaboration with other universities / industry / institute

M. Tech. (95 %)

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

1. Dr. Gajendra Prasad Singh, BOYSCAST Fellowship (2010-2011), DST, New Delhi
2. A. S. Bhattacharyya, Best Poster Award, Short Term Course on Advanced Functional Materials, SAFM, National Institute of Technology, Durgapur, (2013)
3. Anand Abhinav, A.S Bhattacharyya, and Rajat K Roy, Best Poster Award International Conference on Emerging Materials: Characterization & Application EMCA-2014, Kolkata, INDIA

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil

31. Code of ethics for research followed by the Centre: Yes

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
M.Tech (all batches 2010-15 to 2014-19)	More than 500 /Batch	70% (approx.)	30% (approx.)	90% (approx.)	95% (approx.)
PhD (2014)	More than 50/Batch	1	1	NA	NA

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
M.Tech	100%	-	-	-
PhD	NA	-	100%	-

34. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations? (Give details): 5 Students of 1st Batch (2010) qualified GATE 2014

Sl No	Name	Present Status
1	Krishna Kumar	Integrated PhD at IIT Madras
2	Harshit Oraon	M.Tech at IIT BHU
3	Avinash Kumar	M.Tech at IIT BHU
4	Rishu Kumar	M.Tech at IIT Patna
5	Nitish Kumar	M.Tech at IIT Patna
6	Dibyashree Kaushik	Doing M.Tech project at RRI

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	80% (approx.)
PG to M.Phil/Ph.D	NA
Ph.D to Post Doctoral	NA
Employed through campus selection	NA
Employed through other than campus recruitment	NA
Self-employed /entrepreneurs	NA

36. Diversity of staff:

Percentage of staff from the State	50%
Percentage of staff from other States	50%
Percentage of staff from other countries	0%
Percentage of staff who are graduates of the same university	0%
Percentage of staff who are graduates from other universities within the state	25%
Percentage of staff who are graduates from universities from other states	75%
Percentage of staff who are graduates from other universities outside the country	0%

37. Number of faculty who were awarded Ph.D. D.Sc. and D.Litt. during the assessment period: 01 (Dr Lawrence Kumar, PhD from IIT Patna 2013)

38. Present details about infrastructural facilities:

Library	01 (Central Library)
Internet facility for staff & students	Wifi campus and LAN facility
Total number of class rooms	04
Class rooms with ICT facility	01
Student's laboratories	01
Research Laboratories	01 (In collaboration with Centre for Applied Chemistry)
Others	

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university:

(b) **From other institutions/universities:**

Sl. No.	Name of Students	Area of Research	University last attended
1.	Soumita Jana	Materials Science	Sikkim University
2.	Parameshwar Kommu	Materials Science	JNTU, Hyderabad

40. Number of students of the centre getting financial assistance from the university (2-5 per year): Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NA

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?: Feedback from faculties are discussed in departmental meeting and resolutions taken for implementation.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Feed-back from the students is taken at a regular interval regarding the means of teaching, examination pattern and standard. The Feedback system is based on giving grades to teaches in a parameter of 4 (excellent), 3 (very good), 2 (fair), 1 (average), 0 (needs improvement). The students are also free to express their opinion in the feed-back. The Feedback is taken very seriously and the faculties try to fill up the lacunas in their teaching and make themselves more compatible with the students.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? : NA

43. List the distinguished alumni of the centre (maximum 10): NA

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

Special lectures from the following persons have been organized by the Centre

1. N. Bharathan, Indiana Univ. of Pennsylvania, USA
2. Manoranjan Kar, IIT Patna
3. M. Rizwannur Rehman, NIT Karnataka

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

We encourage the students to not to confine themselves only to classroom teaching but to explore other possibilities in terms of internships at various institutes and scientific laboratories all over India. Some of our students have obtained the prestigious Indian Academy of sciences scholarship and worked in various organizations like IISc Bangalore, RRI Bangalore, IIT Madras, ARCI Hyderabad, CSIR-NPL, CSIR-NML, CSIR-CEERI, IACS Kolkata, SAIL, Mecon to name same. Our students go to South Korean universities under exchange program where the courses which they undertake are also considered as a part of the curriculum.

We try to make the classroom sessions more interactive instead of being lecture oriented. We often make the students indulge in seminars and quiz based on the subject. This makes the students feel interested and learning becomes more of an enjoyment. We have also made the students write articles and make posters on topics related to the curriculum which trains them for future endeavors in the area of research.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

We take feedback from students appearing for interview in M.Tech and PhD programs as well as attending various conferences and workshops and try to modify our curriculum and teaching procedures. The students have performed well and have been selected in various IITs for masters and PhD program.

47. Highlight the participation of students and faculty in extension activities:

Students have participated in UNNAYAN, a program run by the university giving education to nearby tribal children.

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

2010	Students Participated in conference at SN Bose National Centre for Basic Sciences, Kolkata
2012	<i>Internships at CSIR-NML, ARCI Hyderabad, IIT BHU, IIT D, IIT G, IAS Scholarships</i>
2013	<i>Internships at SAIL, ARCI Hyderabad, IAS Scholarships to work in IISc, NIT R</i>
2014	<i>Internships at Mecon, Participated in NMD (Conference) at College of Engineering, Pune</i>
2015	<i>Students participated in International Conferences and workshops at NISER, CGCRI Kolkata,</i>

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details:

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths

1. Highly motivated, qualified and hard working young faculties
2. Efficient courses of studies approved by academic council
3. Special classes for national level competitive examinations like NET and GATE
4. Counselling of students for higher studies and research
5. Mentoring students in academic as well as personal matters

(B) Weakness

1. Lack of required number of teaching and research faculties
2. Limited infrastructure facilities

(c) Opportunities

1. Research Collaborations with other organizations
2. Scope of high quality research proving good publications and patents

52. Future plans of the centre:

1. Development of Research Laboratories
2. Research Projects from Govt. and Private Sectors
3. Collaboration with national/ international organizations
4. Organizing conferences and workshops

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

A. Dr. Gajendra Prasad Singh

1. **G. P. Singh**, K. M. Shrestha, A. Nepal, K. J. Klabunde, C. M. Sorensen (2014): Graphene supported plasmonic photocatalyst for hydrogen evolution in photocatalytic water splitting, *Nanotechnology*, *Nanotechnology*, 25 (2014) 265701, *Impact factor: 3.84.*
2. A. Nepal, **G. P. Singh**, B. N. Flanders and C. M. Sorensen (2013): One-step synthesis of graphene via catalyst-free gas-phase hydrocarbon detonation, *Nanotechnology*, 24, 245602 (7pp), *Impact factor: 3.84.*
3. **G. P. Singh**, (2013): **Green Graphene**, Research Highlight, *Nature*, doi:10.1038/nindia.2013.81; published online 20 June 2013, <http://www.nature.com/nindia/2013/130620/full/nindia.2013.81.html>
4. S. Biswas, **G. P. Singh**, S. Ram, H.-J. Fecht (2013): Surface stabilized GMR nanorods of silver coated CrO₂ synthesized via a polymer

complex at ambient pressure, Journal of Magnetism and Magnetic Materials, 339, 175–181, *Impact factor*: **1.826**

5. P. S. Das and **G. P. Singh** (2012): Structural, Magnetic and Dielectric properties in Cu substituted Ni-Zn Ferrite for sensors applications, IEEE Explore, 29-33, *Impact factor*: **NA**.
6. Kumar Mohit, S.K. Rout, S. Parid **G. P. Singh**, S.K. Sharma, S.K. Pradhan, Ill WomKim (2012): Structural, optical and dielectric studies of $Ni_xZn_{1-x}Fe_2O_4$ prepared by auto combustion route, Physica B: Condensed Matter 407, 935-942, *Impact factor*: **1.327**.
7. **G. P. Singh** and S. Ram (2010): Optical and electron paramagnetic resonance properties of native Cr_2O_3 surface over CrO_2 , Journal of Magnetism and Magnetic materials 322, 1484, *Impact factor*: **1.826**.
8. **G. P. Singh**, S. Ram, J. Eckert and H. J. Fecht (2009): Synthesis and morphological stability in CrO_2 single crystals of a half-metallic ferromagnetic compound, Journal of Physics: Conference Series, 104, 011210, *Impact factor*: **NA**.
9. **G. P. Singh** and S. Ram (2008): Impedance and magnetic properties of chemically synthesized CrO_2/Ag nanocomposite particles, Journal of Applied Physics, 103, 07D709-1, *Impact factor*: **2.210**.
10. **G. P. Singh**, S. Ram and H.-J. Fecht (2008): Silver modified CrO_2 of core-shell nanoparticles and their magnetic and impedance properties, Journal of American Ceramic Society, 91, 322, *Impact factor*: **2.107**.
11. **G. P. Singh** and S. Ram (2008): Near stationary dielectric properties in half-metallic ferromagnetic Ag: CrO_2 nanocomposite particles at high frequencies, Modern Physics Letters B, 12,1423, *Impact factor*: **0.479**.
12. **G. P. Singh**, B. Biswas, S. Ram and K. Biswas (2008): Structure and magnetic properties in Ag stabilized ferromagnetic sensors of CrO_2 nanoparticles, Materials Science & Engineering A, 498, 125, *Impact factor*: **2.349**.
13. **G. P. Singh**, J. Alphonsa, P. K. Barhai and S. Mukherjee (2008): Study of phase formation in selected surface roughened plasma nitrided AISI 304 austenite stainless steel, Science & Technology of Advance materials, 9, 0250007, *Impact factor*: **3.752**.
14. **G. P. Singh**, S. Ram, A. K. Thakur and R. N. P. Chaudhary (2008): Electrical properties of ferromagnetic Ag: CrO_2 particles, Indian Journal of Engineering and Materials Sciences, 15 (2008) 171, *Impact factor*: **0.362**.

(B) Papers presented in National/International Conferences/Seminars/etc.

1. **G. P. Singh**, Plasmonic gold loaded TiO_2 -graphene nanocomposite photocatalysts for photocatalytic hydrogen evolution, International Conference on Recent Advancement in Annoscience and

Nanotechnology (ICRANN 2014), [held during December. 15-16, 2014 at JNU, New Delhi, India]

2. **G. P. Singh**, A. Nepal, K. Shrestha, C. Sorensen, Development of efficient graphene based nanocomposites for hydrogen production through Photocatalytic water splitting, International conference on functional materials (ICFM-2014) [held during Feb. 5-7, 2014 at IIT Kharagpur, India]
3. **G. P. Singh**, and S. Ram, Magnetic and dielectric properties of native Cr₂O₃ surface layer CrO₂ particles, 1st International conference on nanostructured materials and nanocomposites (ICNM-2009) [held during April 6-8, 2009 at Institute of Macromolecular Science and Engineering (IMSE), Kottayam, Kerla, India]
4. **G. P. Singh**, and S. Ram, One step autoclave synthesis of ferromagnetic CrO₂, International conference on Magnetic Materials and their application for 21st century (MMA-21) [held during Oct. 21-23, 2008 at NPL New Delhi, India], p-159.
5. **G. P. Singh** and S. Ram, Synthesis and photoluminescence properties in nanostructured Ag@CrO₂ particles, International Conference on Nano and Microelectronics (ICONAME) [held during Jan. 03-05, 2008 at Pondicherry Engineering College, Puducherry, India] P-144.

(C) Books/Monographs/Edited Books

(C) Chapter(s) in Books

1. G. P. Singh and S. Ram: "Magnetic Nanofluids: Synthesis, Properties and Applications" in *Nanofluids: Research Development and Applications*, 2013, Editor: Yuwen Zhang, Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY 11788-3619, ISBN: 978-1-62618-203-5.
2. S. Ram and G. P. Singh: "Advanced composites: Advanced ZrO₂-based ceramic nanocomposites for optical and other engineering applications" in *Selected Topics of Composite Materials*, Editors: Kamal K. Kar and A. Hodzic, Research Publishing Services, Singapore-520236), ISBN: 978-981-08-3713-6
3. G. P. Singh and S. Ram: "Synthesis and Electrical transport properties in ferromagnetic Ag:CrO₂ nanoceramics" in *Advance in Electroceramics Proceeding(NSAE-2006)*, 2006, Editor: D. K. Kharat, Applied Publisher Pvt. Ltd, ISBN-81-8424-037-6, p-286-289.
4. S. K. Singh and G. P. Singh (Editors), *Recent Development in Engineering materials proceeding (RDEM-2011)*, 2012, Excel India Publishers, New Delhi. ISBN-978-93-82062-21-9

(G) Name of important abstract/paper indexing agencies where your papers are indexed Google Scholar

NAME: ARNAB SANKAR BHATTACHARYYA

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. Journal of Alloys and Compounds A.S. Bhattacharyya, S.K. Mishra, S. Mukherjee, G.C. Das, 478 (2009) 474–478.
2. European Coatings Journal, A. S. Bhattacharyya, S. K. Mishra, G. C. Das, S. Mukherjee, 3(2009) 108-114.
3. Vacuum, A.S. Bhattacharyya, G.C. Das, S. Mukherjee, S.K. Mishra, 83 (2009) 1464–1469.
4. Journal of Raman Spectroscopy, A. S. Bhattacharyya, S. K. Mishra, 41 (2010) 1234–1239.
5. Journal of Vacuum Science and Technology A, A. S Bhattacharyya, S.K.Mishra, S. Mukherjee, 28 (2010) 505-509.
6. Journal of Micromechanics and Microengineering, A.S.Bhattacharyya, S.K.Mishra, 21(2011) 015011.
7. Nanoscience and Nanotechnology Letters, S. K. Mishra, A. S. Bhattacharyya, P. K. P. Rupa, L.C. Pathak 4 (2012) 1-6.
8. Surface & Coatings Technology, S.K. Mishra, A.S. Bhattacharyya, P.Mahato, L.C. Pathak 207(2012) 19-23
9. Journal of Polymer Engineering, R.Pradhan, S.Bhowmik, A.S. Bhattacharyya 2012; 32: 379–388
10. Physics Procedia, A.S.Bhattacharyya, D.Kabiraj, S.M.Yusuf, B.N.Dev. 54 (2014) 87-89.

(B) Papers presented in National/International Conferences/Seminars/etc.

1. **Short Term Course on Advanced Functional Materials**, SAFM, National Institute of Technology, Durgapur, A.S.Bhattacharyya, 33 (2013) *Best Poster Award*
2. **International Conference on fundamental and applications of nano science and technology**, Jadavpur University. P.Mohanta, A.S.Bhattacharyya, S.Sen, S.K.Mishra, (2010)
3. **India-Australia International Workshop on Nanotechnology**, Jadavpur University A.S. Bhattacharyya, C. Sarkar (2011)
4. **International Conference on Magnetic Materials and Applications** (MagMa 2013), IIT Guwahati, A.S.Bhattacharyya, D.Kabiraj, S.M.Yusuf, B.N.Dev (2013)

(C) Books/Monographs/Edited Books:

1. Editor, Indian Journal of Materials Science, Hindwai Publications

2. Reviewer, Journal of Alloys and Compounds, Elsevier Publications
3. Reviewer, The 3rd Global Conference on Materials Science and Engineering, China (CMSE 2014)

(D) Chapter(s) in Books

1. Silicon-based Nanomaterials, S.K. Mishra, A.S. Bhattacharyya, Springer Series in Materials Science, Vol. 187, Book Chapter. 10, (2013).

NAME: LAWRENCE KUMAR

(B) Research Papers in Peer Reviewed International Journals

1. **Lawrence Kumar**, P. Mohanty, T. Shripathi and Chandana Rath, **Nanoscience and Nanotechnology Letters** 1 (2009) 199-203.
 2. **Lawrence Kumar** and Manoranjan Kar, **J. Magn. Magn. Mater.** 323 (2011) 2042-2048.
 3. **Lawrence Kumar** and Manoranjan Kar, **IEEE Trans. Magn.** 47 (2011) 3645-3648.
 4. **Lawrence Kumar** and Manoranjan Kar, **Journal of Experimental Nanoscience**. Vol 9, Issue 4, 2014, Page 362-374. D.O.I: 10.1080/17458080.2012.661474.
 5. **Lawrence Kumar** and Manoranjan Kar, **Ceramics International** 38 (2012) 4771-4782.
 6. **Lawrence Kumar**, Pawan Kumar and Manoranjan Kar, **Applied Nanoscience** 3(2013) 75-82.
 7. **Lawrence Kumar**, Pawan Kumar and Manoranjan Kar, **J. Alloys. Compd.** 551 (2013) 72-81.
 8. **Lawrence Kumar**, Pawan Kumar, A. Narayan, Manoranjan Kar, **International Nanoletters** 3:8 (2013) 1-12.
 9. **Lawrence Kumar**, Pawan Kumar and Manoranjan Kar, **Physics Express** 3:21 (2013) 1-6.
 10. **Lawrence Kumar**, Pawan Kumar and Manoranjan Kar, **J. Mat. Sci: Mater. Elec.** 24 (2013) 2706-2715.
 11. **Lawrence Kumar**, Pawan Kumar, Sandeep Srivastava and Manoranjan Kar, **J. Supercond. Nov. Magn.** 27 (2014) 1677-1681.
 12. **Lawrence Kumar**, Pawan Kumar and Manoranjan Kar, **Physica B: Condensed Matter**. 448 (2014) 38-42.
 13. Swati Kumari, Vikash Kumar, Pawan Kumar, Manoranjan Kar and **Lawrence Kumar**, **Advance Powder Technology (Accepted-2014)**.
 14. Vikash Kumar, Swati Kumari, Pawan Kumar, Manoranjan Kar and **Lawrence Kumar**, **Advanced Materials Letters (Accepted-2014)**
- (B) Papers presented in National/International Conferences/Seminars/etc.**
1. Influence of La³⁺ Ion Concentration on the Magnetic Anisotropy of Nanocrystalline Spinel Cobalt Ferrite. Lawrence Kumar and Manoranjan Kar, **National Seminar on Nanomaterials and Their**

Applications, Indian School of Mines Dhanbad, India, February 10-11, 2011, Page No.17 (NANOMAT-2011).

2. Influence of Mn substitution on crystal structure and magnetocrystalline anisotropy of nanocrystalline cobalt ferrite. Lawrence Kumar, Pawan Kumar and Manoranjan Kar, *International Conference on Nanomaterials and Nanotechnology, University of Delhi, 18 December-21 December, 2011, (ICNANO-2011).*
3. Non-linear Behaviour of coercivity to the maximum Applied Field in La³⁺ substituted Nanocrystalline cobalt ferrite. Lawrence Kumar, Pawan Kumar and Manoranjan Kar, *International Conference on Magnetic Materials and Applications (MagMA-2013), IIT Guwahati, 05-07 December, 2013.*
4. Structural and Magnetic properties of rare earth substituted nanocrystalline cobalt ferrite. Lawrence Kumar, Swati Kumari, Vikash Kumar, Pawan Kumar and Manoranjan Kar, *International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India, University of Delhi, India, July 9-11, 2014, Page No: 434 (EMSI-2014).*

CENTRE FOR ENERGY ENGINEERING

- 1. Name of the Centre:** Centre for Energy Engineering
- 2. Year of establishment:** 2011
- 3. Is the Centre part of a School/Faculty of the University?**
Yes, School of Engineering and Technology
- 4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)**
 - i) Int. M.Tech (Energy Engineering)
 - ii) Ph.D (Energy)
- 5. Interdisciplinary Programmes/Courses and Centres involved:**
Renewable Energy Resources, Energy and Environment, Energy and Society, Direct Energy Conversion, Basic of Energy Management, Rural Energy Technology, Basics of Electronics, Basics of Electrical Engineering, Engineering Thermodynamics
Centers Involved: Centre for Water Engineering and Management, Centre for Nano Technology
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc:**
Nil
- 7. Details of Programmes discontinued, if any, with reasons:**
NA
- 8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:**
Semester System
- 9. Participation of the Centre in the courses offered by other Centres**
Centre for Applied Physics, Centre for Applied Chemistry, Centre for Applied Mathematics, Centre for English Language.

**10. Number of teaching posts sanctioned and filled:
(Professors/Associate Professors/Asst. Professors)**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	01
Associate Professor	02	00	00
Assistant Professor	04	04	NA

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. S. K. Samdarshi	PhD	Professor	Solar Energy	25	07
Dr. Basudev Pradhan	PhD	Assistant Professor	Solar Energy	12	01
Mr. Bishnu Mohan Jha	M. Tech.	Assistant Professor	Power Electronics	04	00
Mr. Partha Sarathi Panja	M. Tech.	Assistant Professor	IC Engine	02	00
Dr. Sachin Kumar	PhD	Assistant Professor	Alternate Fuels	04	00

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

i) Prof K V Krishnamurthy

13. Percentage of classes taken by temporary faculty:

(Programme-Wise Information)

i) Integrated M.Tech.- 30%

ii) Ph.D. – 100%

14. Programme-Wise Student Teacher Ratio:

Integrated M.Tech: 23:1

Ph.D.: NA

15. Number of academic support staff (technical) and administrative staff sanctioned, filled and actual: 01 Technical Staff

16. Research thrust areas as recognized by major funding agencies: Solar Energy, Organic solar cells, Dye-Sensitized solar cells, Energy Materials Nanoscience & Nanotechnology, Power Electronics, Digital Signal Processing Thermal Engineering, Automobile Engg., I. C. Engine Liquid Fuels from Waste Plastics and Biomass, Alternate Fuels for I.C. Engines, Catalysis.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

03 UGC, MHRD-FAST, SERB-DST, MNRE Total grants received= Rs. 349.40 lakh

	No of Faculty	Funding agency
a) National	3	UGC, MHRD-FAST, SERB-DST, MNRE
b) International	NA	NA
c) Total grants received=		Rs. 349.40 lakh

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: Nil

(b) International Collaboration: Nil

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:

(Total Grants Received)= Rs. 349.40 lakh

20. Research facility / Centre with:

(a) State Recognition: Nil

(b) National Recognition: *Centre of Excellence in Green and Efficient Energy Technology(CoE-GEET)*

(c) International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies

NA

22. List of Publications in Last Five Years:

Peer Reviewed International Journals: 68

Proceedings/Presentations: 35

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Prof S K Samdarshi	Please see Annexure – I
Dr Basudev Pradhan	
Mr Bishnumohan Jha	
Dr Sachin Kumar	
Mr Parthasarathi Panja	

23. Details of patents and income generated: 02

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status
Prof S K Samdarshi				Pl see Annexure-I
Dr Sachin Kumar				

24. Areas of consultancy and income generated: 01 (MNRE-Solar System Installation)

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in:

(a) National Committees:

- i) Prof S K Samdarshi – Member, Governing Council, Solar Energy Society of India (2009-11)
- ii) Member, Technical Committee, International Congress on Renewable Energy (ICORE-2009, ICORE-2010, ICORE-2011, ICORE-2012, ICORE-2013, ICORE-2014)

(b) International Committees: Nil

(c) Editorial Boards:

- i) Prof. S K Samdarshi, Member, Editorial Board. SESI-Journal (Solar Energy Society of India)
- ii) Dr. Basudev Pradhan, Co-Editor of the Journal, Applied Physics A (Springer)

(d) Any Other Please Specify:

- i) Prof. S K Samdarshi, Reviewer, Curriculum for M.Sc.(Metall. Engg) and Ph.D.(Metallurgy), Department of Material Science and Engg., Jimma University, Ethiopia(2014).

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Participation in UGC, ASC Orientation courses, Refresher courses, Workshops, Training programmes.

28. Student projects:**(a) Percentage of Students who have done in-house projects including interdepartmental projects**

2011-16 batch of 5 years Int. M. Tech. 100%

(b) Percentage of students doing projects in collaboration with other universities / industry / institute

: NA

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:**Faculty:**

Dr.Basudev Pradhan: Ramanujan Fellowships (2012-2017).
SERC Grant for Young Scientists,
2013-2016.
Alexander von Humboldt Research
fellowship, 2010-2012

Student:

Mr. Nagmani was selected for Indian Science Congress summer internship programme for 2014 to work at Bhabha Atomic Research Centre (BARC), Mumbai, India.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): 02

i) Centre for Energy Engineering organized a two day regional training program on “Functioning and Maintenance of SRRA Stations” in collaboration with C-WET Chennai, on 1st and 2nd July 2014 funded by MNRE, Govt. of India.

ii) Renewable Energy Day was observed by Energiea, a society of the students of Centre for Energy Engineering on August 20, 2014.

31. Code of ethics for research followed by the Centre: Yes**32. Student profile course-wise:**

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Integrated M.Tech.					
Ph.D.				03	Nil

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
Int. M. Tech.	0	0	0	0
Ph.D	0	0	100	0

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): NA

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	NA
PG to M.Phil/Ph.D	NA
Ph.D to Post Doctoral	NA
Employed through campus selection	NA
Employed through other than campus recruitment	NA
Self-employed /entrepreneurs	NA

36. Diversity of staff:

Percentage of staff from the State	40%
Percentage of staff from other States	60%
Percentage of staff from other countries	0
Percentage of staff who are graduates of the same university	0
Percentage of staff who are graduates from other universities within the state	40%
Percentage of staff who are graduates from universities from other states	60%
Percentage of staff who are graduates from other universities outside the country	0%

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: 01(One)

38. Present details about infrastructural facilities:

Library	Central Library of the University
Internet facility for staff & students	Staff(100% through LAN); Student(Through WiFi)
Total number of class rooms	03
Class rooms with ICT facility	03
Student's laboratories	01
Research Laboratories	Nil
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) From other institutions/universities: 03(Doctoral)

Sl. No.	Name of Students	Area of Research	University last attended
1.	Atul Sagade	Solar thermal	University of Pune, Pune
2.	Arup Mahapatra	Solar cell	Pondicherry University, Pondicherry
3.	Partha Sarathi Panja	Solar Energy	Burdwan University, Burdwan
4.	Vishal Tuli*	Alternate Fuel	Punjab University
5.	Kumar Gaurav*	Solar Energy	Tezpur University, Tezpur

* Joined as Research Scholar under Center for Excellence–GEET; To join as regular Research Scholar following due procedure.

40. Number of students of the centre getting financial assistance from the university (2-5 per year): 5

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NA

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

Yes. Through Centre's Board of Studies and feedback of the students.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Satisfactory

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

NA

43. List the distinguished alumni of the centre (maximum 10):

NA

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

The centre organized lectures by experts during the following events

i) Centre for Energy Engineering organized a two day regional training program on “Functioning and Maintenance of SRRA Stations” in collaboration with C-WET Chennai, on 1st and 2nd July 2014 funded by MNRE, Govt. of India.

ii) Renewable Energy Day was observed by Energiea, a society of the students of Centre for Energy Engineering on August 20, 2014.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Using multimedia /ICT tools.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Through students’ Feedback and regular meetings of Centre Advisory Committee

47. Highlight the participation of students and faculty in extension activities:

Faculty and Students take part in a number of activities including giving their services as resource persons

Faculty:

Prof S K Samdarshi

1. Delivered an **invited talk** on “*Strategies for improvement in the performance of photoactive metal-oxide nanomaterials*” on November 26, 2013 at International Congress on Renewable Energy (ICORE-2013), at Bhubaneshwar, India.
2. Delivered an **invited talk** on “*An assessment of photoactivity of optimized mixed lattice metal oxide nanomaterials for solar energy and environmental applications*” on January 12, 2014 at RISE-2014 held at NIT, Silchar.
3. Delivered an **invited talk** on “*Test Procedures for Solar Thermal Collectors and Systems – The basic considerations*” on January 12, 2014 at RISE-2014 held at NIT, Silchar.

4. Delivered an **invited talk** on “*Solar Energy Through Mathematics*” on February 02, 2014 at National Conference on Applied Mathematics, held at Central University of Jharkhand, Ranchi
5. Delivered **invited talk** on “*Synthesis, characterization and performance evaluation of visible active multi-phasic metal-oxide nanoparticle systems for solar, energy and environmental applications*” at DST-SAP workshop on Solar Cell on March 15, 2014 held at BIT Mesra
6. Delivered an **invited talk** on “ *Application of Solar Thermal Technologies with special reference to the North-Eastern States*” at training program on Importance of ground solar radiation data in the penetration of solar energy held at Guwahati on May 08, 2014 organized by Assam Power Distribution Company Limited, Assam State Electricity Board, Guwahati
7. Delivered an **invited talk** on “*Solar Thermal Technologies with Special Reference to Solar Radiation Resource*“ at two days training program on Functioning and Maintenance of SRRA Station held from July 01-02, 2014 at Central University of Jharkhand, Ranchi
8. Delivered an **invited talk** on “Energy Security Paradigm: Shift in the Critically Issues” at two days international conference BRIDGES 2015 held at BBA Central University Lucknow, India from January 16-17, 2015 .
9. Delivered an **invited talk** on “Nano-metal oxides for solar and photocatalytic applications” at one day national seminar held at UICT North Maharastra University, Jalgoan, on January 20, 2015 .

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

Nil

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details:

No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

Since the centre is still in budding stage the contribution originating from it are negligible. But the faculty members have a few contributions to their credit such as

- a) Prof S K Samdarshi has contributed in development of procedure for synthesis for Carbon nanotubes using green precursors and also using waste plastic with a national level patent; developed a performance parameter for solar cooker in terms of Cooker Optothermal ratio;

Proposed a model on working of mixed phase metal-oxide photocatalyst; developed a synthesis procedure called nanoparticles with in-situ precursor(NIP) for mixed phase ZnO nanoparticles with a metastable phase;

- b) Dr Basudev Pradhan developed a procedure for synthesizing ZnO nanowires and also developed a Dye-sensitized solar cell using a novel dye.
- c) Dr Sachin Kumar developed a process for conversion of waste plastic to liquid fuel for with a national level patent.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

1. Strength	i. Multi-media classrooms from the beginning of the Centre
	ii. Faculty members are relatively younger in age
	iii. Diverse background of faculty members for interdisciplinary research
	iv. Majority of faculty members are PhD/Pot-Doc from prestigious national and International Institutions
	v. Availability of fairly good number of e-journals through infolibnet
	vi. High-speed internet connection and printing facility for faculty
	vii. Students are attracted from all over the country
	viii. Majority of the teachers have projects and are active researchers/publishers
2. Weakness	i. Difficulty in procurement of instruments and development of labs
	ii. Lack of space for class rooms and laboratories
	iii. Lack of faculty for teaching certain core subjects in some cases
	iv. Lack of Laboratory staff
3. Opportunity	i. There remains immense scope for works from awareness to resource mapping and installation of various renewable energy options as virtually negligible work has been done in this field and in this region.
	ii. Energy being an area of global concern, there is ample scope for

	securing national and international monetary aids/grants for research and development of various energy efficient and environment friendly materials for development and economic strengthening of the local communities.
	iii. Young faculty members can benefit from visiting and gaining experience through collaborative research with outside labs.
	iv. The centre would endeavour to develop the Centre of Excellence in Green and Efficient Energy Technology into a world class center for quality research and advanced technology.
	v. Jharkhand with a large tribal population needs attention in terms of energy technology alternatives and training.
4. Challenges	i. Energy being a frontline area globally in terms of research, development and training, it is important that we are in the pace of development both at national and international level.
	ii. Lack of a concerted and multidisciplinary approach in teaching and research in this subject will not yield manpower with qualities, and profitable and adoptable RET.

52. Future plans of the centre:

- i) The centre plans to move ahead keeping renewable energy and environment in focus.
- ii) Solar energy, alternate fuels, bio-energy, energy conservation and management will be the thrust area of research
- iii) The centre plans to start a full time two year M.Tech and Ph.D. course in Green and Efficient Energy Technology.
- iv) The center will endeavor to start certificate course in energy management and training modules for installation and maintenance of energy gadgets.
- v) To develop test lab for solar thermal and photovoltaic energy equipment.
- vi) It is also planned to develop a sophisticated instrumentation laboratory with the CoE-GEET.
- vii) To develop an energy simulation laboratory for different energy materials and systems with softwares to model, design, and develop them. It will also be helping in evolving energy conservation measures and approaches applicable to a particular condition and energy system. This laboratory will also be having facilities to prepare and evaluate different CDM projects.

- viii) To set-up biofuel(biodiesel and bio-ethanol) production plant prototypes.
- ix) To strengthen energy audit laboratory by acquiring energy audit instruments and equipment.
- x) To develop energy resource mapping facilities in line with the Solar Radiation Resource Assessment(SRRA) station and installation of various renewable energy gadgets.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

International

1. Ramchiary A, and **S. K. Samdarshi*** (2014) Hydrogenation based disorder-engineered visible active N-doped mixed phase titania, **Solar Energy Materials and Solar cells(Elsevier)**, 2014(10.1016/j.solmat.2014.12.031) (IF=5.030)
2. Verma R. and **S K Samdarshi*** (2014) Correlating oxygen vacancies and phase ratio/interface with efficient photocatalytic activity in mixed phase TiO₂ **Journal of Alloys and Compounds(Elsevier)**, 2014(10.1016/j.jallcom.2014.12.218) (IF=2.726)
3. Rajbongshi, Biju Mani and **S. K. Samdarshi***(2014) Influence of N-doping on photocatalytic activity of ZnO nanoparticles under visible light irradiation, **Materials Letters(Elsevier)**, 2014(Accepted)(IF=2.232)
4. Ramchiary A, B M Rajbongshi and **S. K. Samdarshi*** (2014) Investigation of visible light active Ag sensitized mixed phase TiO₂ photocatalyst for solar energy application, **Journal of Sol-Gel Science and Technology(Springer)**, 2014 DOI: 10.1007/s10971-014-3428-z(IF=1.66)
5. Rajbongshi Biju Mani, Bibha Boro, **S K Samdarshi***(2014) Multiphasic bicomponent TiO₂-ZnO nanocomposite: synthesis, characterization and investigation of photocatalytic activity under different wavelength of light irradiation" **Journal of Materials Science: Materials in Electronics (JMSE)(Springer)** (Accepted) (IF=1.48).
6. Rajbongshi B M, Ramchiary A, B M Jha, and **S. K. Samdarshi***(2014) Synthesis and characterization of plasmonic visible

- active Ag/ZnO photocatalyst, **Journal of Materials Science: Materials in Electronics (JMSE)(Springer)** (DOI 10.1007/s10854-014-1968-1) (IF=1.48).
7. Ramchiary A, B M Rajbongshi and **S. K. Samdarshi***(2014) Ag deposited mixed phase titania visible light photocatalyst– Superiority of Ag-titania and mixed phase titania co-junction, **Applied Surface Science(Elsevier)**, 305, 33-39. (IF=2.112)
 8. Ramchiary, A and **S K Samdarshi***(2014) High Visible Light Activity of Hydrogenated Structure-Engineered Mixed Phase Titania Photocatalyst, **Chemical Physics Letters(Elsevier)**, 597, 63-68.(IF=2.145).
 9. Rajbongshi, Biju Mani and **S. K. Samdarshi***(2014) Cobalt-doped zincblende–wurtzite mixed-phase ZnO photocatalyst nanoparticles with high activity in visible spectrum **Applied Catalysis B: Environmental (Elsevier)**, 144, 435-441, 2014, (Five year Impact factor=6.03).
 10. Nair G. Ranjith, **S. K. Samdarshi**, and Bruno Boury (2013) Surface Mineralization of Cellulose by Metal Chloride – an Original Pathway for the Synthesis of Hierarchical Urchin and Needle Carpetlike TiO₂ Superstructures, **European Journal of Inorganic Chemistry(RSC)**, 2013(30), 5303–5310.(IF=3.12).
 11. Garg, H P and S K Samdarshi(2013) India as the Global Powerhouse of Renewable Energy(Invited Paper), **Renewable Energy(Elsevier)**, Accepted(IF=2.989).
 12. Barnali Das, Ranjith G. Nair, Biju Mani Rajbongshi and **S.K. Samdarshi**(2013), “Investigation of the photoactivity of pristine and mixed phase N-doped Titania under visible and solar irradiation” **Material characterization (Elsevier)**, 83,145-151, 2013 (Five year Impact factor- 2.07).
 13. Bruno Boury, Ranjith G. Nair, **Sanjoy K. Samdarshi**, Tahereh Makiabadi and P. Hubert Mutin(2012) Non-hydrolytic synthesis of hierarchical TiO₂ nanostructures using natural cellulosic materials as both oxygen donors and templates, **New Journal of Chemistry(RSC)**, 2012, 36, 2196-2200.(IF=2.966).
 14. Nair, Ranjith. G., Jetendra Kumar Roy, **S. K. Samdarshi***, A. K. Mukherjee (2012) Mixed phase V doped titania shows high photoactivity for disinfection of Escherichia coli and detoxification of phenol **Solar Energy Materials and Solar cells(Elsevier)**, 2012, 105, 103-108.(IF=4.63).

15. Lahkar J. Pranab, Bhamu K. Rajesh, **S. K. Samdarshi***(2012) Enabling inter-cooker thermal performance comparison based on cooker opto-thermal ratio (COR), **Applied Energy (Elsevier)**, 99, 2012, 491–495. (IF=4.783).
16. Nair, Ranjith. G., A. M. Tripathi, **S. K. Samdarshi***(2012) Impact of Ti-V ratio on the crystalline phase/visible light activity of TiV–oxide photocatalyst, **Environmental Progress and Sustainable Energy (AIChE, Wiley-Blackwell)**, 31(1), 107–113.(IF=0.865).
17. Husain M., G. Sharma, **S.K. Samdarshi*** (2012) Innovative design of non-convective zone of salt gradient solar pond for optimum thermal performance and stability, **Applied Energy (Elsevier)**, 93, 357–363.(IF=4.783).
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23. Tripathi, A. M., Ranjith. G. Nair and **S. K. Samdarshi*** (2010) Visible active silver sensitized vanadium titanium mixed metal oxide photocatalyst nanoparticles through sol gel technique, **Solar Energy Materials and Solar Cells (Elsevier)**, 94, 2379-2385. (IF=4.63).
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46. Nanoscale films of organic dyes for broadband environmental sensing, **B. Pradhan**, A. K. Sharma, and A. K. Ray, *Journal of Materials Science: Materials in Electronics* 2009, *20*, 267.
47. Inverted organic solar cells comprising low temperature processed ZnO films, **B. Pradhan***, S. Albrecht, B. Stiller, and D. Neher, *Appl. Phys A* 2014, *115*, 365.

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51. Ankit Agrawalla, **Sachin Kumar**, R. K. Singh, 'Pyrolysis of groundnut de-oiled cake and characterization of the liquid product' **Bioresource Technology**, 102 (2011) 10711–10716.
52. Saswat Rath, **Sachin Kumar**, R. K. Singh, 'Performance & emission analysis of blends of karanja methyl ester with diesel in a compression ignition engine' **International Journal of Ambient Energy**, 32 (03) (2011), 161–166.
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54. Niraj K. Nayan, **Sachin Kumar**, R. K. Singh, 'Production of the liquid fuel by thermal pyrolysis of neem seed' **Fuel**, 103 (2013) 437-443.
55. Bijayani Biswal, **Sachin Kumar**, R. K. Singh, 'Production of hydrocarbon liquid by thermal pyrolysis of paper cup waste' **Journal of Waste Management**, Volume 2013 (2013) Article ID 731858, 7 pages.
56. **Sachin Kumar**, R. K. Singh, 'Thermolysis of high-density polyethylene to petroleum products' **Journal of Petroleum Engineering**, Volume 2013 (2013) Article ID 987568, 7 pages.
57. R. K. Singh, Bijayani Biswal, **Sachin Kumar**, 'Determination of activation energy from pyrolysis of paper cup waste using thermogravimetric analysis' **Research Journal of Recent Sciences**, Vol. 2 (ISC-2012), (2013) 177-182.
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61. Rahul Sinha, **Sachin Kumar**, R. K. Singh, 'Determination of activation energy of linseed pyrolysis using thermogravimetry' *International Journal of Ambient Energy* 34 (04) (2013) 195-199.
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64. **Sachin Kumar**, R. K. Singh, 'Pyrolysis kinetics of waste high-density polyethylene using thermogravimetric analysis' *International Journal of ChemTech Research* 06 (01) (2014) 131-137.
65. V. K. Singh, A. B. Soni, **Sachin Kumar**, R. K. Singh, 'Characterization of liquid product obtained by pyrolysis of cottonseed de-oiled cake' *Journal of Biobased Materials and Bioenergy* 8 (03) (2014) 338-343.
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(B) Papers presented in National/International Conferences/Seminars/etc.

International

1. Paul Samrat, **S K Samdarshi** (2009) Development of Oxygen-Electrode for Alkaline Fuel Cell incorporating Bi-matelllic Electrocatalyst, Proceedings of PETROTECH-2009, New Delhi, India.

2. Paul Samrat, **S K Samdarshi** (2009) Energy efficient synthesis of carbon nanotubes from plant precursors : A sustainable nanotechnology, Proceedings of ICORE – 2009.
3. **S. K. Samdarshi**, Ranjith. G. Nair, A. M. Tripathi (2009) Development of Visible Active Ag deposited TiV oxide Photocatalytic Nanoparticle system, Proceedings of ICORE – 2009, New Delhi, India.
4. Chaturvedi, A and **S K Samdarshi**(2009) Defending Energy Supply Lines: Energy Security concerns for India Proceedings of ICORE – 2009, New Delhi, India.
5. Bharadwaj, Paranjyoti, R. G. Nair, **S. K. Samdarshi** Designing geometry of a compound parabolic solar reactor with cylindrical absorber used for photocatalytic detoxification, Proceedings of ICORE-2010, pp. 149-153.
6. Ojah, Swapna, R. G. Nair, **S. K. Samdarshi**, A review on recent development in dye sensitized solar cell Proceedings of ICORE-2010, pp. 154-160.
7. Borah, Pankaj, **S. K. Samdarshi** Design of a dual axis solar tracker system of photovoltaic module and purpose for automatic control Proceedings of ICORE-2010, pp.161-168.
8. Bora, Birinchi, S. Paul, **S. K. Samdarshi** A review article on the role of cnt as an electron acceptor in organic photovoltaic cell Proceedings of ICORE-2010, pp.93-101.
9. Rajbongshi, Bijumani, S. Paul, **S. K. Samdarshi** A review on poly aniline in organic solar. Proceedings of ICORE-2010, pp.111-117.
10. Nair, Ranjith G. and **S.K. Samdarshi** Visible light induced photocatalytic disinfection of E.Coli using vanadium doped Titanium dioxide. Proceedings of ICORE-2010, pp.118-124.
11. Chaturvedi, A and **S K Samdarshi** Energy supply security concerns for India Proceedings of ICORE-2010, pp.269-273.
12. Nair, Ranjith G, **S. K. Samdarshi**, H. Mutin and B. Boury, Effect of silver deposition on detoxification and disinfection performance of a TiV oxide photocatalyst presented at JEP 2011 symposium, France.
13. Biju Mani Rajbongshi, Anjalu Ramchiary and **S. K. Samdarshi**, “Surface plasmon assisted visible active Ag/ZnO photocatalyst” **International Conference on Nanotechnology 2013**, Kolkata.
14. Ranjith G Nair, **Biju Mani Rajbongshi** and S. K. Samdarshi “Synthesis and characterization of highly visible active multiwalled carbon nanotubes (MWCNT) decorated V doped titania photocatalyst” **International solar Energy society 2013** Concum, Maxico (Accepted).

15. Biju Mani Rajbongshi, Anjalu Ramchiary and S. K. Samdarshi, Surface plasmon assisted visible active Ag/ZnO photocatalyst, **International Conference on Nanotechnology 2013**, Kolkata.
16. Biju Mani Rajbongshi, Anjalu Ramchiary, Sunny Bharali and S K Samdarshi, Ni doping induced structural and optical modifications in TiO₂ nano-structure for efficient use of solar energy, **Proceedings of ICORE 2013**, KIIT University, Bhubaneswar.
17. **Sachin Kumar**, R. K. Singh, “Thermolytic conversion of waste HDPE into fuels and chemicals”, International Conference on Recent Advances in Chemical Engineering and Technology (RACET 2011) held from 10-12 March 2011 at Cochin India.
18. R. K. Singh, Bijayani Biswal, **Sachin Kumar**, ‘Determination of activation energy from pyrolysis of paper cup waste using thermogravimetric analysis’ presented at 2nd International Science Congress-2012, 7-8 December, 2012 at Vrindavan, Mathura (India).
19. **Sachin Kumar**, R. K. Singh, “Non-isothermal kinetic study of waste high-density polyethylene pyrolysis using thermogravimetric analysis”, 2nd International Science Congress (ISC-2012) held from 8th to 9th December 2012 at Bon Maharaj Engineering College, Raman Reti, Vrindavan (Mathura), UP, India.

National

1. Paul Samrat, **Samdarshi S K**, Sharon Maheshwar(2009) Development of Hydrogen-Electrode for Alkaline Fuel Cell incorporating Bi-metallic Electrocatalyst, Proceedings of ISCA-2009.
2. Paul Samrat, **S K Samdarshi** (2009) Effect of aging time on morphology of iron oxide nano/micro particle during synthesis by hydrothermal process, Proceedings of ISCA-2009 (*Best paper award* of the poster session in Engineering science section of 96th Indian Science Congress).
3. Alok M Tripathi, **S K Samdarshi** and R G Nair (2010) Influence of Ti/V ratio on the visible light photocatalytic activity of TiV oxide nanoparticles, Proceedings of ISCA-2010 (*Best paper award* in the poster session of Engineering science section of 97th Indian Science Congress).
4. Lahkar, Pranab J and **S K Samdarshi**, A generic test procedure for estimation of thermal performance parameters and their correlation with objective parameters for paraboloid concentrator cooker, presented at National Conference of Renewable Energy(NCRE-2010), Tezpur(in press)

5. Das, Barnali, Ranjith G Nair, Samrat Paul and **S K Samdrashi**, Enhanced photocatalytic activity of N-doped TiO₂ nanoparticles, presented at National Conference of Renewable Energy(NCRE-2010), Tezpur. (in press)
6. Nair, Ranjith G and **S K Samdarshi**, Influence of anatase/ rutile ratio on photocatalytic activity of TiO₂ nanoparticles, presented at National Conference of Renewable Energy(NCRE-2010), Tezpur. (in press)
7. Chaturvedi, A and **S K Samdarshi**, Energy security concerns for India, presented at National Conference of Renewable Energy(NCRE-2010), Tezpur. (in press)
8. Paul, S and **S K Samdarshi**, Renewable precursor for carbon nanotube synthesis and their application in fuel cell electrode, presented at National Conference of Renewable Energy(NCRE-2010), Tezpur. (in press)
9. Bora, Birinchi, Samrat Paul, **Sanjoy Kumar Samdarshi** Antioxidant activity of Nanomaterials and their utilization in Biodiesel storage - paper presented in the poster session of Engineering science section of 98th Indian Science Congress to be held from January 2-7, 2011 at Chennai
10. Rajbongshi, Biju Mani, Paul, Samrat and **S. K. Samdarshi** Synthesis of carbon nanotubes (CNT) from Mustard oil - paper presented in the poster session of Engineering science section of 98th Indian Science Congress held from January 2-7, 2011 at Chennai
11. Ojah, Swapna, Ranjith G. Nair and **S. K. Samdarshi** Enhanced visible active rutile TiO₂ nano photocatalyst for the degradation phenol - paper presented in the poster session of Engineering science section of 98th Indian Science Congress to be held from January 2-7, 2011 at Chennai
12. Bharadwaj,Paranjyoti, Ranjith. G. Nair and **S. K. Samdarshi**, Design of a compound parabolic solar reactor with cylindrical absorber used for photocatalytic detoxification - paper presented in the poster session of Engineering science section of 98th Indian Science Congress to be held from January 2-7, 2011 at Chennai
13. Borah, Pankaj and **S. K Samdarshi**, A review on sun tracking for optimization of power output of PV panel - paper presented in the poster session of Engineering science section of 98th Indian Science Congress to be held from January 2-7, 2011 at Chennai
14. Ranjith. G. Nair and S. K Samdarshi, Mixed phase vanadium doped titania nanoparticles for photocatalytic degradation of Phenol,

Presented in **NATPAS-2011** held from 01- 03 February 2011 at Tezpur University

15. Paul S. and **S K Samdarshi**, Functionalized cut-MWCNT for OPV application, *S Paul got Young Scientist Award of ISCA* for the paper and presented it at Indian Science Congress 2012 at Bhubaneswar.
16. Achyut K. Panda, **Sachin Kumar**, R. K. Singh, “Thermolytic conversion of waste plastics to fuels and chemicals”, National conference on Smart materials and 25th annual seminar of Orissa Chemical Society, from 25-26 Dec. 2010, organized by Apex Institute of Technology and Management Bhubaneswar.

(C) Books/Monographs/Edited Books

1. S K Samdarshi, S Mahapatra, and S Paul(2011) Renewables: Growth through Acadmeia-Industry Interface, Solar Energy Society of India, New Delhi.
2. S K Samdarshi, J S Jawa (2012) Grid Power from Renewables, Solar Energy Society of India, Excel India Publishers, New Delhi.(ISBN: 978-93-82062-77-6)
3. Kumaravel M, S M Ali, S K Samdarshi, R Jha, and J S Jawa (2013) Renewables for Development of Rural Areas, Excel India Publishers, New Delhi.

(D) Chapter(s) in Books

1. Garg, H P and S K Samdarshi(2014) India: the Global Powerhouse of Renewable Energy?, Renewable Energy 2014, World Renewable Energy Network, Brighton, UK, 19-27. (Invited)

(E) Impact Factor – Range and Average

Range: 0 to 12.94, Average ~ 3.0

(F) Citation Index – Range and Average:

Range 6 to 14, Average: 10.6

Year	No. of Citations
2014	277
2013	223
2012	197
2011	129
2010	124
2009	101
2008	65

(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

(H) h-index / i10-index:

Faculty Name	h-index	i10-index
Dr. S. K. Samdarshi	14	15
Dr. Basudev Pradhan	12	15
Dr. Sachin Kumar	6	5

(I) Patents:

National

1. A process for preparing carbon nanotubes from non-biodegradable polypropylene and polythelene terephthalate. (430/DEL/2011 of 21/02/2011).

CENTRE FOR COMPUTER SCIENCE

1. Name of the Centre: Centre for Computer Science

2. Year of establishment: 2014

3. Is the Centre part of a School/Faculty of the University?

Yes, School of Engineering and Technology

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

2 years M.Tech (Computer Science with mobile computing)

5. Interdisciplinary Programmes/Courses and Centres involved: Nil

6. Courses in collaboration with other universities, industries, foreign institutions, etc

Nil

7. Details of Programmes discontinued, if any, with reasons

NA

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

Semester System

9. Participation of the Centre in the courses offered by other Centres:

Mathematics, Energy Engineering, Nanotechnology

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	00	00
Associate Professor	02	00	00
Assistant Professor	04	00	00

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Mr. Sandeep Mal	M.Tech	Assistant Professor	Mobile Computing	03	00

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

- i) Prof P. K. Das-Jadavpur University Kolkata
- ii) Prof. Nandini Mukherjee-Jadavpur University Kolkata
- iii) Prof. B. K. Jha-BIT Meshra
- iv) Prof Ashish Ghosh-ISI Kolkata
- v) Prof Jaydeep Chakraborty- TCS Kolkata

13. Percentage of classes taken by temporary faculty: 75%

14. Programme-Wise Student Teacher Ratio:

(2 Year) M.Tech: 10:1

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Nil

16. Research thrust areas as recognized by major funding agencies : Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received: Nil

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil

20. Research facility / Centre with: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. List of Publications in Last Five Years: Attached in Annexure 1

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in: National Committees International Committees Editorial Boards

Any Other Please Specify: Nil

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others): NA

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects: 40%

(b) Percentage of students doing projects in collaboration with other universities / industry / institute: 60%

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Best poster award by Mr.Sandeep Mal, ICACA9, 2013 held at CIT Raipur

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): NA

31. Code of ethics for research followed by the Centre: Yes

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
		40%	60%	

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): 04

- i) Kunal Srivastava
- ii) Aswani Kumar
- iii) Pratham Tiwari
- iv) Praveen Pandey

35. Student progression: NA

36. Diversity of staff: NA

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details about infrastructural facilities:

Library	24 Books
Internet facility for staff & students	yes
Total number of class rooms	03
Class rooms with ICT facility	03
Student's laboratories	01
Research Laboratories	01
Others	

39. List of doctoral, post-doctoral students and Research Associates: Nil

40. Number of students of the centre getting financial assistance from the university (2-5 per year): There is no direct financial assistance given to the students. However students are given freeship based on their parents income and merit.

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NA

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

Yes. Through Centre's Board of Studies and feedback of the students.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Satisfactory

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

NA

43. List the distinguished alumni of the centre (maximum 10):

NA

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: NA

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Using multimedia /ICT tools.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Through students' Feedback .

47. Highlight the participation of students and faculty in extension activities: NA

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise): NA

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details:

AICTE fellowship for GATE qualified students.

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. Mobile Computing, Cloud Computing

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

1. Strength	i. Multi-media classrooms from the beginning of the Centre
	ii. Faculty members are relatively younger in age
	iii. Availability of fairly good number of e-journals through inflibnet
	iv. High-speed internet connection and printing facility for faculty
	v. Students are attracted from all over the country
3. Opportunity	i. Lack of availability of faculty with PhD.
	ii. Lack of faculty for teaching certain core subjects in some cases
	iii. Lack of Laboratory staff
3. Opportunity	i. There remains immense scope for awareness to ICT courses as options are virtually negligible in this field and in this region.
	ii. IT being global concern, there is ample scope for securing national and international monetary aids/grants for research and development, and for development and economic strengthening of the local communities.
	iii. Young faculty members can benefit from visiting and gaining

	experience through collaboration with outside institutes in the vicinity.
	iv. The centre would endeavour to develop a Centre of Excellence in mobile computing for quality research and advanced technology.
	v. Jharkhand with a large tribal population needs attention in terms of computer technology alternatives and training.
4. Challenges	i. Computer science being a frontline area globally in terms of research, development and training, it is important that we are in the pace of development both at national and international level.
	ii. Lack of quality manpower needs a concerted and multidisciplinary approach in teaching and research to yield manpower needed.

52. Future plans of the centre: Developing of Mobile computing, Cloud computing Information Technology, Data mining, Grid Computing etc.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

a) List of Publications in journals during last five years

1. **“Applicability on weyuker’s property 9 to new inheritance metrics”**- Sandip Mal, Kumar Rajnish, International Journal of Computer Application.vol-66, Issue-12, 2013.
2. **“Package Level Cohesion Metric for Object-Oriented Design”**- Sandip Mal, Kumar Rajnish, Sanjeev Kumar. International Journal of Engineering and Technology (Engineering Journal publishers). Vol-5(3), PP-2523-2528, 2013.
3. **“New Quality Inheritance Metrics for Object-Oriented Design”**- Sandip Mal, Kumar Rajnish, International Journal of Software Engineering and Its Applications Vol.7, No.6 (2013), pp.185-200 <http://dx.doi.org/10.14257/ijseia.2013.7.6.16>.
4. **“Validation of New Complexity Metric for Object-Oriented Design Measurement”**- Sandip Mal, Kumar Rajnish, Accepted in "Software Engineering: An International Journal".
5. G.Bhattacharjee & P.Pati, “A Novel Approach for Test Path Generation and Prioritization of UML Activity Diagrams using Tabu

Search Algorithm”, International Journal of Scientific and Engineering Research, Volume 5 Issue 2, Feb 2014.

6. P.Pati & E.Poovammal, “CTP Algorithm: An Implementation in the real world”, International Journal on Advanced Computer Theory and Engineering, Volume 2 Issue 2, 2013.
7. “Feature Extraction of Tooth Morphology for Human Identification”- K.K Senapati, Sandip Mal. Communicating on International Journal of Bioengineering and Technology. (IJBET), Vol-3(3), PP-12-17, 2012.
8. “Applicability on weyuker’s property 9 to new inheritance metrics”- Sandip Mal, Kumar Rajnish, International Journal of Computer Application.vol-66, Issue-12, 2013.
9. “Package Level Cohesion Metric for Object-Oriented Design”- Sandip Mal, Kumar Rajnish, Sanjeev Kumar. International Journal of Engineering and Technology (Engineering Journal publishers). Vol-5(3), PP-2523-2528, 2013.
10. “New Quality Inheritance Metrics for Object-Oriented Design”-Sandip Mal, Kumar Rajnish, International Journal of Software Engineering and Its Applications Vol.7, No.6 (2013), pp.185-200 <http://dx.doi.org/10.14257/ijseia.2013.7.6.16>.

b). List of Publications in Conference Proceedings during last five years

1. “**Validation of new cohesion metric against Braind properties**”- Sandip Mal, Kumar Rajnish, Accepted by ICACNI 2013, CIT, Chattrigarh proceeding published by springer, win best paper award, DOI: 10.1007/978-81-322-1665-0_58.
2. “**Bone Mark Analysis Using Image Processing**”- K.K Senapati, Sandip Mal. Accepted by Fourth International Conference on advances in Resent Technologies in Communication and Computing- ARTCom-2012.
3. “Bone Mark Analysis Using Image Processing”- K.K Senapati, Sandip Mal. Accepted by Fourth International Conference on advances in Resent Technologies in Communication and Computing- ARTCom-2012.
4. “Validation of new cohesion metric against Braind properties”-Sandip Mal, Kumar Rajnish, Accepted by ICACNI 2013, CIT, Chattrigarh proceeding published by springer, win best paper award, DOI: 10.1007/978-81-322-1665-0_58.

CENTRE FOR INDIGENOUS CULTURE STUDIES

1. Name of the Department: Centre for Indigenous Culture Studies

2. Year of establishment: 2010

3. Is the Department part of a School/Faculty of the university? Yes.
School for the Study of Culture

4. Names of Programmes offered: Ph.D., 5 years Integrated Master in Indigenous Culture Studies

5. Interdisciplinary courses and Centres involved:

Interdisciplinary Courses: Communicative English, Computer Application, Environment Science, Disaster Management

Centres involved: Centre for English Studies, Centre for Applied Mathematics, Centre for Environment Science, Centre for Disaster Management

6. Courses in collaboration with other universities, industries, foreign institutions, etc.: NA

7. Details of programmes discontinued, if any, with reasons: NA

8. Examination system: Semester/ Coice Based Credit System

9. Participation of the department in the courses offered by other departments:
Centre for Life Science, B.A. B.Ed.

10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Assistant Professors/ Others)

	Sanctioned	Filled	Actual (including CAS/ MPS)
Professors	1	0	
Associate Professors	2	1	
Assistant Professors	4	3	
Others			

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. Of Ph.D./M.Phil. students guided for the last 4 years
1	Dr. Sucheta	M.Sc., Ph.D.	Associate Professor	Social and Cultural	15 years	Three in cuj and three in

	Sen Chaudhuri			Anthropology		RGU as Co-guide
2	Mr. Rajnikant Pandey	M.Sc., M.Phil.	Assistant Professor	Social and Cultural Anthropology	4 years	-----
3	Dr. Seema Mamta Minz	M.A., Ph.D.	Assistant Professor	Archeology	4 years	-----
4	Dr. Tulasi Das Majhi	M.A., M.Phil, Ph.D.	Assistant Professor	Endangered Languages, Multilingualism, Areal Linguistics, Indian Linguistic Theory	2 years	-----
5	Dr. Kanato Chophy	M.Sc., Ph.D.	Assistant Professor (Contractual)	Social and Cultural Anthropology		
6	Ms. Diana Ashem	M.Sc., M.Phil.	Assistant Professor (Contractual)	Social and Cultural Anthropology		
7	Dr. Meenaksi Munda	M.Sc., Ph.D.	Guest Faculty	Social and Cultural Anthropology		

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil
13. Percentage of classes taken by temporary faculty – programme-wise information: 40%in Integrated program
14. Programme-wise Student Teacher Ratio: Integrated program: 32:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Nil
16. Research thrust areas as recognized by major funding agencies: UGC
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of teacher	Title of project	Total grants	Duration	Date of sanction & Current Status	Funding Agency
Dr. Tulasidas Majhi	Endangered Languages	3.6 Crore	3 years	February 2014	UGC, New Delhi

18. Inter-institutional collaborative projects and associated grants received
 - a) National collaboration:
 - i. TATA, Jamshedpur and National Folklore Support Centre, Chennai
 - b) International collaboration: Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil
20. Research facility / centre with
 - state recognition : Nil
 - national recognition : UGC
 - international recognition: Nil
21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil
22. Publications:
 - 1 paper published in peer reviewed journals (national / international)
 - * Monographs: 4
 - * Chapters in Books: 5
 - * Edited Books: 2
 - * All books, monographs and edited books are with ISBN with details of publishers
 - * Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average * SNIP
 - * SJR
 - * Impact Factor – range / average * h-index
23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: One
26. Faculty serving in
- a) National committees :North Eastern Committee for Textile in 12th Five year Plan Ministry of Textile, New Delhi
 - b) International committees :
 - i. President- Asia Pacific Indigenous Youth network
 - ii. Member, Indigenous Peoples Movement for Self Determination and Liberation.
 - iii. Joint Secretary Indian Anthropological Association.
 - c) Editorial Boards
 - d) Any other :
 - i. Member of Translation Committee, School of Translation Studies, IGNOU, Delhi.
 - ii. Member of Anthropological Writing Committee, IGNOU, Delhi.
 - iii. Content writers for Text Book writing in Anthropology: Gender and Tribe; Tribe and Land Alienation; Tribal Economy; Ground Realities of Welfare Programme Implementation; Tribal Art and Aesthetics; Tribe and Caste; Tribal Religion; Ecological Anthropology and Distribution of Tribal languages Under e- PG pathsala, An MHRD Project under NME- ICT, UGC.
 - iv) Life members of Indian Anthropological Association (IAA), Indian National Confederation of Anthropological Association(INCAA), Indian Anthropological Society(IAS), National Association of Women's Organisation (NAWO).
 - v. Advisor, Culture Heritage Management in Bunder Area, Chattarpur, PRISM, Kolkata
28. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
- i. Faculty members attended courses like Orientation, Refreseshers', organised by UGC, 2012- 2014;
 - ii. Faculty member attended courses on Women Studies Training for Women Managers in iii. Higher Studies in 2013-14;
 - iii. Faculty members attended courses on Museum Training, Organised by IGRMS in 2011 and 2014.
 - iv. PhD Programme.

29. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: 100%
- percentage of students doing projects in collaboration with other universities

/ industry / institute: Nil

30. Awards / recognitions received at the national and international level by

- Faculty: Nil.
- Doctoral / post doctoral fellows: 2 UGC-JRF and 1 Rajiv Gandhi Fellowship.
- Students: Nil.

31. Seminars/ Conferences/Workshops organized and the source of funding (national

/International) with details of outstanding participants, if any.

i. National Seminar on Indigenous Cultures and Dance of Jharkhand, 25-27 August 2011 sponsored by NFSC, Chennai.

ii. 35th session of Indian Folklore Congress from December 12-14, 2011 CIFL.

iii. Organising National Seminar on Indigenous Environmental Philosophy in the Global Era from 7-9 November 2012, funded by ICSSR, New Delhi 2012.

iv. Celebration of People of World's Indigenous Day- through Tribal Art Workshop, 2013-2014.

32. Code of ethics for research followed by the departments: Yes.

33. Student profile programme-wise:

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female

Five Years Integrated Course in ICS					
2010	4	02	02	02	02
2011	15	11	04	03	10
2012	10	06	04	05	03
2013	15	09	06	06	04
2014	8	5	3	3	3
Ph. D					
2012	15	03	01	01	01
2013	05	nil	01	nil	01

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. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students From universities outside the State	% of students from other countries
5 years integrated PG course in Indigenous Culture Studies	Nil	60%	40%	Nil
PhD Programme	Nil	Nil	100%	Nil

35. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

i. UGC-JRF: 3 ;UGC-NET: 2

36. Student progression

Student progression	Percentage against enrolled
UG to PG	100%
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	Nil
Entrepreneurs	Nil

37. Diversity of Staffs

Percentage of faculty who are graduates	
of the same university	Nil
from other universities within the State	Nil
from universities from other States	100%

38. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

- i. Ph.D-2
- ii. M. Phil-2

39. Present details of departmental infrastructural facilities with regard to

- a) Library : Small library collected on donation basis
 - b) Internet facilities for staff and students : twenty four hours Internet facility for both students and staffs
 - c) Total number of class rooms : 4
 - d) Class rooms with ICT facility: 2
 - e) Students' laboratories : Nil
 - f) Research laboratories: Nil
39. List of doctoral, post-doctoral students and Research Associates
- a) from the host institution/university
 - b) from other institutions/universities
 - i. Mr. Hemant Prakash Minz
 - ii. Ms. Roselima Pamei Kamei
 - iii. Ms. Anindita Nayak
40. Number of post graduate students getting financial assistance from the university: Nil
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. N.A.
42. Does the department obtain feedback from
- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The syllabus for Five years Integrated Course was drafted in 2010 by Professor T. B. Subba, presently Vice Chancellor, Sikkim University, Professor Imchen, Manipur University, Prof. Kharmaflong North Eastern Hill University, Shillong, Prof. Srikant, formerly attached with Political Science department of N.E.H.U, and Prof. V. Xaxa, Director, North East Center, Tata Institute of Social Sciences, Guwahati. In the meantime, some of the new papers like, Linguistics, Cultural Heritage have been incorporated. In the course of teaching, student's feedback is taken into consideration. Some of the pertinent issues are included in the syllabus as per the university norm.

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Initially, the feedback is judged considering its relevance and utility. Since the department is at the initial stage which is based on interdisciplinary areas, the pertinent feedback is incorporated at the appropriated forum.
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
Any sort of feedback from the alumini and employers are encouraged with academic spirit.
43. List the distinguished alumni of the department (maximum 10). NA
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- i. Students of IX semester were sent to workshops organized by Indira Gandhi Rastriya Manav Sangrahalaya, Bhopal, November, 2014
- ii. Students of VII semester were sent to Tribal Conclave, organized by Tata, Jamshedpur, November 2014
- iii. Ph.D students attend seminars, workshops, Research Methodology programmes at regular basis 2012-2014
- iv. Special lectures organized for students and -
>Prof. Zoya Karanovitch, University of NoviSad delivered lectures in 2012,
>Prof. Wajuppa Tosa, Thailand delivered lecture 2012,
>Dr. Debasis Debnath, Associate Professor, Indian Institute of Forest Management, Bhopal, delivered lectures in 2013,
>Dr. Ananta Giri, Associate Professor, Madras Institute of Development Studies delivered lectures in 2014
- v. Mr. Abir Gupta, Assistant Professor, Bhimrao Ambedkar State University New Delhi delivered lectures in 2014.
45. List the teaching methods adopted by the faculty for different programmes.
- Faculty members utilize computerized interactive board arrangements available in two classrooms. Lectures delivered through audio-visual modes. Fieldstudies are their in 1st, 2nd, 3rd, 4th, 6th and 10th semester syllabus.
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Sessional tests, written Assignments-written and oral deliberations, Term papers, Photo Essays, Field Reports, Dissertations constantly monitor students progress

47. Highlight the participation of students and faculty in extension activities. Center for Indigenous Culture Studies faculty members, research scholars and students took leading part in organizing “Akhra- Tribal India International Festival 2012” of Central University of Jharkahnd. Around 750 tribal artists, film makers, creative writers, and of more than 50 tribal communities of India and Bhutan participated in the festival. This three day long festival organized cultural shows in open air and on stage, seminar, documentary film festival, poets’ meet, Painting and sculpture exhibition, book and craft fair and food festival.

48. Give details of “beyond syllabus scholarly activities” of the department.

i. In 2012 university festival theme was tribal heritage and faculty members of the Center for Indigenous Culture Studies decided themes like “Indigenous Environmental Philosophy in the Global Era” for seminar, “Halitta-Life around my Village and Journey” for Documentary film festival, Creative Writers’ meet, “Korobore: Tribal Music and Dances”. Center invited rural folk artists from different tribes, renowned scholars, silver lotus recipient film makers, eminent painters and sculptors, famous singers, university faculty members and students and all three days of festival they were present in the CUJ campus. The festival aimed at celebrating rich tribal culture and heritage, Indigenous knowledge and it was a successful event.

ii. In 2013 Center for Indigenous Culture Studies organized popular lecture and Prof. Debjani Roy, Head, Center for Indigenous and Traditional Knowledge System, IGNOU, New Delhi delivered two lectures.

iii. In 2013 Center for Indigenous Culture Studies celebrated World Indigenous Day. Painting workshop was organized and Mr. Borhan Hansda, Santiniketan was invited as resource person for the Tribal Painting workshop.

iv. In 2014, CICS celebrated World Indigenous Day. Sit & Draw Tribal Art was theme for painting, along with Film Screening.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

Center is engaged in the understanding and learning indigenous perspectives, sustainable knowledge systems for dissemination. Interdisciplinary approaches are taken into consideration to look at empirical realities. Center is heavily engaged in decolonizing research

methodologies.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

I. Five Strengths

This center is offering the course and research opportunities has potential to document Cultural Bio-Diversity, to promote Indigenous and Traditional Knowledge System, to learn linguistic and Cultural Approaches for Cultural Resource Management and Eco-Cultural Conservation, to restore Ecological and Social Balance for Sustainable Development, to acknowledge age old Wisdom of Indigenous Communities.

II. Weakness

CICS is facing monetary problem for practicing the subject as this is heavily relies up on the tradition of field studies that require semester wise allocation of financial resources, technical support for its interdisciplinary and multidisciplinary approaches, as well as for creating database, dearth of required number of faculty members, and scarcity of space

III. Opportunities

Students as well as center will be contributor in participatory sustainable planning program, making use of cultural diversity and resource management, eco-cultural conservation, securing rights to Food diversity.

IV. Challenges

Recasting dominant thoughts from indigenous points of view; decolonizing research methodologies for accommodating indigenous understandings, voices, and issues visible in research and academics; identifying forces inculcate the idea of mainstreaming of indigenous knowledge ignoring diversities, make out importance of diversities-as adaptive cultural mechanism and innovation of respective cultures, classifying different forces which are making minorities' cultures vulnerable.

52. Future plans of the department.

Being pioneer center in India, CICS wish to develop as an advanced research and study center. In that direction, this center proposed for Indigenous Knowledge Sharing through museum mode and submitted a preliminary write up under 12th Five year plan. The main objective of that proposal was to practice tangible traditional knowledge of different living traditions. These areas of non-formal knowledge are operational at sustainable levels, eco-friendly. CICS, wish to popularise those knowledge to save those from diminishing. CICS is also interested to concentrate in learning any form of Indigenous/Trditional Cultural Knowledge of the World which protected people since time imemorial.

CENTRE FOR TRIBAL AND CUSTOMARY LAW

1. Name of the Centre: Centre for Tribal and Customary law

2. Year of establishment: August 2012

3. Is the Centre part of a School/Faculty of the University?

Yes. The Centre is a part of the School for the Study of Culture, Central University of Jharkhand.

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

a). M.A. (Tribal Law and Governance)

b) LL.M. (Tribal and Customary Law)

C) Ph.D.

5. Interdisciplinary Programmes/Courses and Centres involved:

Faculties of the centre are involved in teaching courses in other Centres like Centre for Indigenous and Culture Studies, Centre for Life Science, Education and Far East Language.

6. Courses in collaboration with other universities, industries, foreign institutions, etc.: NA

7. Details of Programmes discontinued, if any, with reasons

No programme have been discontinued

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

Semester Based Credit System

9. Participation of the Centre in the courses offered by other Centres

Course/Paper Name	Level	Centre	Teacher
Indigenous Culture of Jharkhand	Integrated MA	ICS	Dr. Walter Beck
Material Culture	Integrated MA	ICS	Shamsher Alam
Introduction to IPR	UG	Life Science	Rashwet SHrinkhal
Indian Culture	UG, PG	Education	Dr. Debandra Kumar Biswal
History of Modern India	UG PG	Education	Dr. Debandra Kumar Biswal
Research Methodology	PhD	Far East Language	Dr. Debandra Kumar Biswal

**10. Number of teaching posts sanctioned and filled:
(Professors/Associate Professors/Asst. Professors)**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1 (SC)	nil	
Associate Professor	2 (UR)	nil	
Assistant Professor	4 (2-UR/OBC/2)	04	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Prof. Jeuti Barooah	M.A, LL.B, Ph.D	Professor (on Contract)	Customary Law, Women and Child Rights	20 years	
Dr. Walter Beck	M.A, , Ph.D UGC-NET (Anthropology)	Assistant Professor	Research Methodology, Customary Law	05 years	04
Rashwet Shrinkhal	LL.M, M.Phil, UGC-NET-JRF (Human Rights & Duties) UGC-NET (Law)	Assistant Professor	Human Rights, International Law, Indigenous Rights, Jurisprudence	02	nil
Shamsheer Alam	M.A, (Gold Medalist) BGL UGC-JRF (Anthropology)	Assistant Professor	Tribal Welfare and Tribal Administration	2	nil
Debandra Kumar Biswal	M.A., MPhil, LL.B, PhD UGC-JRF (Anthropology)	Assistant professor	Research Methodology, Human Rights, Medical Anthropology, tribal studies	03 yrs. 10 months (research) & 5 yrs. 4 months (teaching)	04
Pranav Kumar	LL.M. UGC-NET (Law)	Guest Faculty	IPR		

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:
NA

13. Percentage of classes taken by temporary faculty:
(Programme-Wise Information)

M.A.	27.27%
LL.M.	20%

14. Programme-Wise Student Teacher Ratio:

MA	5:3
LL.M	1:2
PhD	4:1

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Zero in the Centre.

16. Research thrust areas as recognized by major funding agencies:

Good Governance and Tribal Peoples, Women and Child Rights, customary laws

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration:

(b) International Collaboration: NA

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:
(Total Grants Received)

20. Research facility / Centre with:

(a) State Recognition:

(b) National Recognition

(c) International Recognition:

21. Special research laboratories sponsored by / created by industry or corporate bodies

NA

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Prof. Jeuti Barooah	
Dr. Debendra Kumar Biswal	<p>RESEARCH PAPERS PUBLISHED IN JOURNALS</p> <ol style="list-style-type: none"> 1. Shifting cultivation and policies of sustainable development: a meaningless obsession. Journal of Economic and Social Development. IISN-0973-886X. Vol.VIII, No.2. December 2012. 2. SHIFTIG CULTIVATION. EVERYDAY SCIENCE. 3. Feminization of Poverty, Tribals and Fertility Behaviour: An Empirical Study in Odisha. Jharkhand Journal of Development and Management Studies. ISSN: 0973-8444. Vol.12, No.4, Dec.2014. 4. Tribals in India: the game of indigenization. Orissa Post, English daily newspaper, Bhubaneswar. 09.08.11. <p>ARTICLES/CHAPTERS PUBLISHED IN BOOKS</p> <ol style="list-style-type: none"> 1. Kutia Kondhs: Deconstructing Gender Differences. IN Tribal Society in India and Beyond. Deepak Behera and George Pffer (ed.). Concept Publishers: New Delhi. ISBN 81- 8069- 534-4. 2. Environment and health Research: Beyond the School of Biomedicines. Dimensions of health care system among tribal and other communities. J. Dash et.al. (ed.), SK. Book Agency, New Delhi. ISBN 978-93-8315-828-7. 3. Socio-economic Factors and Child Mortality: An exploratory analysis of tribal groups. Ethno-medical practices in tribal areas. J. Dash et.al. (ed.), SSDN Publishers & Distributors, New Delhi. ISBN 978-93-8183-918-8. 4. Book review- broken democracy: three essays. In newsletter Published by the Centre for Tribal and Customary Law, CUJ. 5. article- game of indigenization and Indian tribals. In newsletter Published by the Centre for Tribal and Customary Law, CUJ. <p>BOOK PUBLISHED AS SINGLE AUTHOR OR AS EDITOR</p> <ol style="list-style-type: none"> 1. Ecology and Health: A Comparative Study. PALAKA PRAKASHAN: New Delhi. ISBN 81-85799. 2011 <p>PAPERS PRESENTED ON CONFERENCES/ SEMINAR/ WORKSHOP/ SYMPOSIA</p> <ol style="list-style-type: none"> 1. Ecological approach in health Social Science research: is it holistic or partial. National Seminar on <i>Bio-Cultural Anthropology: Prospects and Challenges</i>. Organized by Utkal University, ANSI (Kolkata) and NKCD (Bhubaneswar). 27-28 March 2010. 2. Shifting cultivation and policies of sustainable development: A meaningless obsession. National Conference on Strategy for Tribal Development in Central India. Sagar University, MP, Indira Gandhi Rastriya Manav Sangrahalaya, Bhopal & UGC. 27-29 Dec. 2010.

	<p>3. Rapporteur in the National Seminar on Strategy for Tribal Development in Central India. Sagar University, MP, IGRMS, Bhopal & UGC. 27-29 Dec. 2010.</p> <p>4. Impact of Globalization on the tribes of Koraput region in Orissa. National Seminar on “Challenges in Preservation and Development of Tribal Culture”. Central University of Orissa & District Council of Culture, Koraput, Odisha. 14-15 Jan. 2011.</p> <p>5. Anthropology of farmer suicides in Western Odisha: State genocide or domestic justice. International Seminar on ‘Farmer Suicides in India’. Pondicherry University. 10-11 Feb. 2011.</p> <p>6. Rapporteur in the session “Farmers suicide and socio-political response”. International Seminar on ‘Farmer Suicides in India’. Pondicherry University. 10-11 Feb. 2011.</p> <p>7. Peasants, Poverty and Public Policies; Solution is the Problem in Western Odisha. National Seminar on “Dynamics of Chronic Poverty in Odisha”. Indian Institute of Public Administration, CPRC, JNU and CUO. 22-24 April 2011.</p> <p>8. Economic empowerment of women farmers through value chain development. National Seminar on “Challenges of Tribal Development in the Era of Post Globalization”. Organized by Indian Economic Association at COATS, Koraput. 7-8 May 2011.</p> <p>9. Socio-Economic factors and child mortality: an exploratory analysis of tribal groups. National seminar on “tribal health in India: challenges and prospects”. School of Studies in Anthropology, Bastar University, Jagdalpur. 15-16 Sep. 2011.</p> <p>10. Prenatal health care among the Parajas of Koraput district in Orissa. National seminar on “tribal health in India: challenges and prospects”. School of Studies in Anthropology, Bastar University, Jagdalpur. 15-16 Sept. 2011.</p> <p>11. Neonatal health care among the Parajas of Koraput District in Orissa. National seminar on “tribal health in India: challenges and prospects”. School of Studies in Anthropology, Bastar University, Jagdalpur.</p> <p>12. Environment and Health Research: Beyond the School of Biomedicines. National Seminar on “Higher Education in India: Challenges and Prospects” . Kannur University, Kerala. 13-15 Dec. 2011.</p> <p>13. Shifting Cultivation and Climate Change: Sustainability of Nature or Society. International Conference on “Climate Change and Sustainable Management of Natural Resources”. IASCA, ITM University, Gwalior, MP, India. 5-7 Feb. 2012.</p> <p>14. New Economic Policies & Agrarian Crisis: Is the Countrymen Vanishing in Western Odisha?. National Seminar on “Livelihood in the Era of Globalization”. Dept. of Sociology, Sambalpur University, UGC & ICSSR. 16-17 March, 2012</p> <p>15. Environmental Degradation and Food Security: Tribals and scope of Green Economy. National Seminar on “Empowerment of Tribals: Education, Health and Livelihood”. Dept. of Anthropology, Utkal University. 27-28 March, 2012.</p>
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	<p>16. Anthropology of Maoism in Koraput Region: Tribals' self-determination or a Communist Movement. International Symposium on "Anthropology of Global Issues". World Congress of Anthropological Associations, Indian Anthropological Association & Dept of Anthropology, University of Delhi. 1-3 April 2012.</p> <p>17. Land is the root of all unrest: Ethnography of <i>Bhoodan Andolan</i> and Maoist movement in Koraput region of Odisha. National Seminar on 'Governance, Socio-Economic Disparity and Social Unrest in the Scheduled Areas of India'. Tata Institute of Social Sciences (TISS) -Guwahati Campus. 22-24 Nov.2012.</p> <p>18. Children as Active Subjects: Anthropology of Maoism and Tribal Children in Dandakaranya Region. International Conference on "Children and Youth in a Changing World". Inter-Congress Of International Union of Anthropological and Ethnological Sciences (IUAES). 26-30 Nov. 2012.</p> <p>19. Chair the session on "Impact of short term parental migration on children". International Conference on "Children and Youth in a Changing World". Inter-Congress Of International Union of Anthropological and Ethnological Sciences (IUAES). 26-30 Nov. 2012.</p> <p>20. Right to habitation of PTGs in FRA, 2006: <i>a discourse in Ecological Democracy</i>. National Level Workshop on 'Tribal and Resource Governance'. Regional Centre for Development Cooperation, Bhubaneswar. 21 -22 Dec. 2012.</p> <p>21. Public-Private Partnership in Maternal Health Care of Tribals: <i>Towards Equity In An Unequal Society</i>. International Seminar on "Health Cultures and Tribal Communities: Emerging Research Agenda and Policy Shifts". Central University of Hyderabad, in association with IGRMS (Bhopal), ICSSR and ICMR. 2-4 Jan. 2013.</p> <p>22. De-politicization of Water, Industry and Farmer: Hirakud Dam and The Myth of Development. National Seminar on "Frontiers of development practices in India: reconfiguring the development of underdevelopment". Ravenshaw University, in association with ICSSR, New Delhi. 13-14 April. 2013.</p> <p>23. Beyond the practical reasons: creolization of consumerism and the tribals in the globalized world. National Seminar on "Rural consumers and the market: issues and challenges". National University of Study and Research in Law, Ranchi in association with Indian Institute of Public Administration, New Delhi. 16-17 August 2013.</p> <p>24. Maoism and tribal children in Dandakaranya Region. National Seminar on "Decentralized governance and changing paradox of development in rural areas". Central University of Jharkhand. 11-12 Sept. 2013.</p> <p>25. Children in-between: Prevention and Demobilization of Children Joining Naxalite Movement. National Seminar on "Securing Childhood: Challenges and Opportunities". Xavier Institute of Social Services (XISS, Ranchi) & UNICEF-Jharkhand. 13-14 Feb. 2014.</p>
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	<p>26. Identity in Isolation or Integration: Historicity of Tribal Languages in Odisha. National Seminar on “Languages and Culture of Sangam Age and its impact on the Indigenous-Tribal Communities in India”. Centre for Tribal Folklore, Languages and Literature & Central Institute of Tamil Languages, GoI. 31 March- 2nd April, 2014.</p> <p>27. Green Economy As Substitution To Environmental Degradation: Making Sustainable Development More Inclusive For The Tribals. International Seminar on “Global issues of Population, Development and Environment”. Institute of Social and Economic Change, Bangalore. 27th-28th October 2014.</p> <p>Socio-Economic Factors of Migration in Jharkhand: an Exploratory Analysis. International Seminar on “Human Resource”. Institute for Social Development & Research, Ranchi. 1st-3rd Nov., 2014.</p>
<p>Dr Walter Beck.</p>	<p>RESEARCH PAPERS PUBLISHED IN JOURNALS</p> <p>1.Role of Education Among the Lohra and Munda Tribes of Jharkhand, Ratna Garbha- ISSN 0996-231X, A Bi-Annual Referred Research Journal of Social Sciences & Humanities, Vol: 6 No.1 September 2009, Published by Department of Jyotirvigyan, Ranchi University Ranchi,</p> <p>2.Health Status of Munda and lohra Tribe of Jharkhand, Anusandhanika ISSN-0974-200X, Vol. X Number I, January 2012, Research Journal of Social Sciences and Humanities, Published by Vicharya Educational Trust Ranchi, Jharkhand India</p>
<p>Rashwet Shrinkhal</p>	<p>Research Paper in International/ Refereed/ Peer Review Journal</p> <p>1. “Climate Change: Issues of Climate Justice and Ethics” published in Indian Journal of International International Law, vol. 51, no. 4, 2011,pp.550-565.</p> <p>2. “ Problems in Defining ‘Indigenous Peoples’ under International Law”, published in Chotanagpur Law Journal , vol.7, no.7. 2013-2014, pp187-195. The Article finds space in Bookforum (an Americian Book Review Magazine) edited compilation “Who is Indigenous” http://www.bookforum.com/blog/13545</p> <p>Paper Presented in Seminar Conference</p> <ol style="list-style-type: none"> 1. Participated in and presented a paper entitled “FPIC as a Tribal Autonomy: A Critique” at the International Conferer <u>Voices from the Margins: Society, Culture and Exclusion</u> org by Indian Council of Social Science Research & Sch Languages, Central University of Jharkhand. 20th -22nd Fe 2013. 2. Participated in and presented a paper entitled “The UN Conven the Protection of the Rights of All Migrant Workers and Mem their Families: A Critique” at the 6th International Semir

	<p>Human Resource organized by the Institute for Social Development and Research, Ranchi. 1st – 3rd November 2014.</p> <p>Book The Emerging Dimensions of Right to Information as Human Right in India, Bharat Book Publication : Lucknow, (Co-authored with J P Wapnil.)</p>
<p>Shamsher Alam</p>	<p>1. Conservation of Tribal Heritage in Jharkhand - An Anthropological Perspective, Anusandhanika - Refereed Research Journal of Social Sciences and Humanities, Vol. IX/No. II/July 2011/pp. 27-33</p> <p>2. कंवर आदिवासियों में मानवजाति चिकित्सीय प्रथाएं Anusandhanika - Refereed Research Journal of Social Sciences and Humanities, Vol. X/No. II/July 2012/pp. 231-237.</p> <p>Papers presented in National/International Conferences/Seminars/etc.</p> <p>1. Presented paper entitled “Panchayati Raj and Rural Development” at the UGC National Seminar on Panchayati Raj Institutions and Mobilization of Weaker sections in Jharkhand; Venue-K.B College Bermo, Bokaro. (14-15 May 2007)</p> <p>2. Presented paper entitled “Safeguards for SC and ST for bringing them in Mainstream Society” at the National Seminar on the Role of Central Government in the Development of SC & ST ; Venue - K.B. College Bermo, Bokaro. (21-22 September 2007)</p> <p>3. Presented paper entitled “Human Rights and Role of Anthropology” at the International Seminar on Human Rights in the Era of Globalisation ; Venue - Ranchi University, Ranchi. (26-28 February 2008)</p> <p>4. Presented paper entitled “Preservation of Tribal Culture and Heritage” at the National Seminar on Development of Anthropology in Pre-Independent and Post-Independent Periods; Venue - Ranchi University, Ranchi. (17-19 December 2010)</p> <p>5. Presented paper entitled “Ethnomedicinal Practices among the Birhors of Demotand, Hazaribag” at the UGC sponsored National Seminar; Venue - Department of Anthropology, Ranchi University, Ranchi.(25-26 March 2011)</p> <p>6. Presented paper entitled “Preservation of Cultural Legacy of Tribal People” at the International Seminar on Voices of the Margin : Society, Culture and Exclusion ; Venue - Central University of Jharkhand. (20-22 February 2013)</p> <p>7. Presented paper entitled “ Role and Importance of Customary Laws</p>

	<p>in Tribal Governance” at the National Seminar on Decentralized Governance and Changing Paradox of Development in Rural Areas ; Venue - Central University of Jharkhand. (11-12 September 2013)</p> <p>8. Presented paper entitled “Envisioning Amelioration of Child Labour in Jharkhand ” at the International Seminar on Human Resource ; Venue - Institute for Social Development and Research, Ranchi. (01-03 November 2014)</p>
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23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in: ?

(a) National Committees

(b) International Committees

(c) Editorial Boards :

1. Prof. Jeuti Barooah, Memembr, Editorial Advisory Board, “VBU Journal of Law and Governance” published by Vinoba Bhave University, Hazaribagh.

Rashwet Shrinkhal, Member, Editorial Board “VBU Journal of Law and Governance” published by Vinoba Bhave University, Hazaribagh.

(d) Any Other Please Specify

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Faculties attended refresher/orientation courses, different seminar/conferences/workshops etc.

<p>Dr. Debendra Kumar Biswal</p>	<p>Attended the Orientation Programme at Jawaharlal Nehru University, New Delhi from 25.08.2014 to 19.09.2014 (one month course) and passed with A grade (above 75% marks)</p> <p>WORKSHOPS/LECTURES INVITED</p> <ol style="list-style-type: none"> 1. Invited to participate in the international conference on “climate change” organized by the Climate Change Working Group (CCWG, LONDON). 2. Delivered a talk on “Tribal culture in un-divided Korapu region: an overview” at the All India Radio Station, Jeypore Odisha on 1st January 2013. 3. appointed as observer for “National Eligibility-cum- Entrance Test- UG, Medical Admission 2013” organized by Central Board of Secondary Education, New Delhi on 5th May 2013.
<p>Dr. Walter Beck</p> <p>Rashwet Shrinkhal</p>	<ol style="list-style-type: none"> 1. Participated 4 weeks orientation programme conducted Academic Staff College, Shimla, 14.04.2014-10.05.2014 2. Participated in 2 Week Capacity Building Programme for Social Science Faculty Members, Organized by the Dept. of Anthropology, Ranchi University, May 2013- June 2013 3. Invited as Chairperson in the International Seminar on Human Resource on the topic “Recruitment, reservation and work Practices” , 01 Nov-03 Nov. 2014. <ol style="list-style-type: none"> 1. Attended one week winter programme on “Private International Law”, organized by Indian Society of International Law, New Delhi.

Holding seminars at university level, attending conferences, contributing academic/research based articles (empirical/theoretical) for publications,

Attending orientation and refresher courses conducted by UGC Academic Staff College of India etc.

Resource person for various seminars and workshops and continuous interaction with interdisciplinary students.

Syllabus preparation while collaborating with NHRC on Human Rights Education for University and College level

28. Student projects: nil

(a) Percentage of Students who have done in-house projects including interdepartmental projects

(b) percentage of students doing projects in collaboration with other universities / industry / institute

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

- The Centre initiated a Lecture Series on various topics on Tribal and Customary Law. The first lecture of the series was delivered by the Hon’ble Mr Justice M B Lokur, Judge, Supreme Court of India on the topic “Role of Customary Law in Good Governance”
- The Centre also achieved a rare landmark to mediate a case on customary law as referred by the Supreme Court of India.
- The Centre was also successful in organizing a lecture on the topic “Importance of Fundamental Duties” by the Hon’ble Mr Justice Pinaki Chandra Gosh, Judge, Supreme Court of India.
- The Centre successfully organized the 2nd lecture of the lecture series on tribal and customary law. Professor B S Chimni of the Centre for International Legal Studies, School of International Studies, Jawaharlal Nehru University delivered the lecture on the topic “Globalization and International Law”.
- The Centre organized a special lecture by the Hon’ble Mr A K Patnaik , Judge Supreme Court of India on the topic “Role of Right to Information”.
- The Centre and its faculties also played pivotal in establishing and conducting various activities of the Centre for Panchyati Raj Institutions, Women and Child Development Studies (CPWCDS).

31. Code of ethics for research followed by the Centre:

32. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
MA	-	7	4		
LL.M			2		
Ph.D	45	4	3		

33. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
M.A.	nil	100	Nil	nil
LL.M	nil	100		
Ph.D				

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details):

1. **Seerat Kachhap** ,M.A. - Tribal Law and Governance,(qualified during the 1st year of study) Roll - 52920008,Year - December 2013 Subject - Human Rights & Duties, UGC - NET

2. **Seerat Kachhap** ,M.A. - Tribal Law and Governance,(qualified during the 2st year of study) Roll - 52900001, Year - June 2014, Subject - International & Area Studies,

UGC - NE T

3. Ram Chandra Oraon, Ph.D. Research Scholar,
Roll - 17580025,Subject - Law,Year - June 2014, UGC - NET (**with JRF**)

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	NA
PG to M.Phil/Ph.D	NA
Ph.D to Post Doctoral	Nil
Employed through campus selection	Nil
Employed through other than campus recruitment	Nil
Self-employed /entrepreneurs	Nil

25. Diversity of staff:

Percentage of staff from the State	60%
Percentage of staff from other States	40%
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	60%
Percentage of staff who are graduates from universities from other states	40%
Percentage of staff who are graduates from other universities outside the country	Nil

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period:**38. Present details about infrastructural facilities:**

Library	Yes
Internet facility for staff & students	Yes (Wi-Fi)
Total number of class rooms	2
Class rooms with ICT facility	2
Student's laboratories	Nil
Research Laboratories	Nil
Others	Nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Doctoral :

(b) **From other institutions/universities:**

40. Number of students of the centre getting financial assistance from the university (2-5 per year):**41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:**

METHODOLOGY ADOPTED IN PREPARING THE SYLLABUS FOR M.A. (TRIBAL LAW & GOVERNANCE) & LL.M.

INTRODUCTION

The process of development of the syllabus for the proposed M.A. Programme in Tribal Law and Governance, anticipated to be initiated by the Centre for Tribal & Customary Law of Central University of Jharkhand, marks its inception by the joining of Dr Walter Beck, Mr Shamsheer Alam and Mr Rashwet Shrinkhal in the Centre for Tribal and Customary Law in the month of August 2012.

It was after their joining at the Centre for Tribal & Customary Law, the faculty members envisioned a common goal of raising the academic standard of the Center to a world class level, establishing it as a distinguished seat of tribal studies in India. This spirit was often encouraged by the words of Hon'ble Vice Chancellor Dr DT Khathing. Thereafter the next challenging task was of preparing a holistic syllabus intended to cover every possible aspect of tribal culture, customs, customary practices, legal aspects, welfare measures, governance issues and policy implications.

The task was challenging, daunting and pioneering; because such a programme was first of its kind in the country and there existed no precedents about any such initiative in any University across the length and breadth of India. There are centres/departments like those of Anthropology, Sociology, Political Science and Law which have segments of the content, but none of them were exclusively dedicated to the study of tribal issues in detail with an interdisciplinary approach.

Keeping in mind such a circumstance, the initial step was focussed on getting a baseline. For this, programmes focussing on the indigenous/aboriginal/tribal people(s) offered at various international universities were initially searched for and then reviewed. Some of the universities which were looked after for reference were :

Sl.	INSTITUTION	LOCATION
01.	James E. Rogers College of Law, The University of Arizona	Arizona, USA
02.	Osgoode Hall Law School, York University	Toronto, Canada
03.	Michigan State University College of Law	Michigan, USA
04.	Indigenous Law Centre, University of New South Wales	Sydney, Australia
05.	Syracuse University College of Law	New York, USA.
06.	School of Law, St. Thomas University	Florida, USA

07.	The Fletcher School, Tufts University	USA
08.	University of Minnesota Law School	Minneapolis, USA
09.	James Cook University	Australia
10.	University of Waikato	Hamilton, New Zealand

CONCEPTUALIZATION

After reviewing the above mentioned programme structures, the faculty members contextualized the essence of the programmes into Indian context without losing international tone. Programme structures of some of the Indian universities were also of great help. Some of them were of NLU's, Central University of Rajasthan, Jawaharlal Nehru University, Indira Gandhi National Tribal University, Delhi University, Pondicherry University, Arunachal Institute of Tribal Studies, Ranchi University etc.

CONSULTATION

Thereafter, the next stage was of consultation with reputed Indian scholars. The list included the following people but not limited to them.

Sl.	NAME	DESIGNATION
01.	Prof. Upendra Baxi	Professor of Law at University of Warwick, United Kingdom and Ex-Vice Chancellor, Delhi University.
02.	Dr. B.D. Sharma	Rtd. IAS officer, Social Activist and Former Vice Chancellor, North Eastern Hill University, Shillong.
03.	Prof. B.S. Chimni	Former VC, West Bengal National University of Juridical Sciences and Professor, Centre for International Legal Studies, JNU, Delhi.
04.	Dr. A. Chellaperumal	Head, Department of Anthropology, Pondicherry University, Puducherry.
05.	Dr. Sucheta Sen Chaudhuri	Head, Centre for Indigenous Culture Studies, Central University of Jharkhand, Ranchi.
06.	Dr. Emmanuel Barla	Faculty of Political Science, St. Xavier College, Ranchi University.
07.	Dr. Aditya Raj	Faculty Member, Department of Humanities and Social Sciences, IIT Patna.

LITERATURE REVIEW

Simultaneously, extensive literature review was also carried out and issues in the available literature were thematically incorporated in various courses under the offered programme.

42. Does the centre obtain feedback from:

EXPERT COMMENTS

Finally after the completion of the draft syllabus, the same was mailed for review to international and national scholars (*the Curriculum Vitae of the reviewers are attached in the appendix*). The work was appreciated in general. Some of the exclusive notes and comments are as follows :

1. *“...Your bibliographic references are impressive...”*

Prof. (Dr.) Siegfried Wissener
St. Thomas University, USA.

2. *“...I am most interested in innovative educational and research initiative like this one. I like the policy and law approach...”*

Prof. (Dr.) Paul Havemann
James Cook University, Australia.

3. *“...description of your new programme looks very impressive. I believe it will make an important contribution within your country and beyond...”*

Prof. (Dr.) John Borrows
University of Minnesota, USA.

4. *“...Thank you very much for bringing this important Program to my attention. I wish you every success with it. I have also forwarded it to my colleagues here in indigenous legal orders at University of Victoria, University of Minnesota and Dartmouth College, New Hampshire. I am sure they will be interested as well...”*

Prof. (Dr.) James Tully
University of Victoria, Canada.

5. *“...Central University of Jharkhand is taking a significant step. Your team deserves kudos...”*

Dr. Aditya Raj (Ph.D, McGill Univesity)
Faculty, IIT Patna, India.

6. *“...The comprehensive syllabus is not only a guideline for the faculties and the students but it also reflects the prospect of immediate employability of the students after completion of the course. Moreover, this type of education on tribal issues will lead the society at policy level...”*

Dr. Jeuti Barooah
Former, Director, Law Research Institute
Gauhati High Court, Guwahati.

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

Yes. The Centre discusses the issues in its periodic faculty meetings which involves the students also. It creates a better teaching-learning platform.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

The Centre takes the issues raised by the students very sensitively and tries to get a solution at earliest.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

Centre will definitely take the feedback for better academic development.

43. List the distinguished alumni of the centre (maximum 10):

Centre is only two years old.

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

- The Lecture delivered by the Hon'ble Supreme Court Judge, Justice M B Lokur on the topic "Role of Customary Law in Good Governance"
- The Centre was also successful in organizing a lecture on the topic "Importance of Fundamental Duties" by the Hon'ble Mr Justice Pinaki Chandra Gosh, Judge, Supreme Court of India.
- The Centre successfully organized the 2nd lecture of the lecture series on tribal and customary law. Professor B S Chimni of the Centre for International Legal Studies, School of International Studies, Jawaharlal Nehru University delivered the lecture on the topic "Globalization and International Law".
- The Centre organized a special lecture by the Hon'ble Mr A K Patnaik, Judge Supreme Court of India on the topic "Role of Right to Information".
- The Centre successfully organized academic lecture by Dr V G Hegde, Associate Professor, South Asian University, New Delhi on the topic of "Intellectual Property Rights Regime and Tribal Peoples"
- The Centre successfully organized academic lecture by Dr Debasis Poddar, Assistant Professor, National University of Study and research in Law, Ranchi, on the topic "The Positioning of Tribal Rights under the Indian Constitution"

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Power Point Presentation, Exposure visit, field works, screening of movies and documentaries.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Centre keeps discussing the concerned issues with students as well as faculties. Presentation, paper writing, review of the literature etc. are the part of the monitoring of learning.

47. Highlight the participation of students and faculty in extension activities:

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

- Dr. Biswal went as coordinator for the team of local bodies representative of Jharkhand belonging to women community to attend conference in Delhi
- The entire faculty of the CTCL, visited Mandar block and had interactive sessions with local village members.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

The Centre has started unique programme on Tribal Peoples with law and policy approach.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

Strength:

- It is the first Centre in India to offer a complete study programme on Tribal and Indigenous Rights with law and policy approach
- Truly an interdisciplinary programme
- Dedicated faculty members from various fields

Weakness: The Centre deliberately needs supportive staff as the precious and productive time faculty members is wasted in bureaucratic, cumbersome file maintenance

The Centre requires more pool of money to organize lectures and field survey.

Opportunities: The Centre has all potential to be recognized as key institution on indigenous rights discourse viz a viz policy making process of the nation and can play substantially in adjudication process through mediation and conciliation involving tribal peoples.

Challenges: Students are of different disciplines. At the initial level, they need more support and attention to understand the subject, and develop interest.

52. Future plans of the centre:

The Centre plans to work in areas of indigenous rights discourse and strengthening the importance of customary laws in the national legal system,

CENTRE FOR TRIBAL FOLKLORE, LANGUAGE AND LITERATURE

1. Name of the Centre: Centre for Tribal Folklore, Language and Literature.

2. Year of establishment: 2013.

3. Is the Centre part of a School/Faculty of the University? The centre is under the school for the Study of Culture.

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.): PG and Ph.D.

5. Interdisciplinary Programmes/Courses and Centres involved: NA

6. Courses in collaboration with other universities, industries, foreign institutions, etc

7. Details of Programmes discontinued, if any, with reasons

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System: Semester system.

9. Participation of the Centre in the courses offered by other Centres

Course	Level	Centre	Teacher
Indigenous Peoples in South and South-East Asia	UG	CICS	Dr. Rabindranath Sarma
Folk Theatre	UG	Centre for PA	Dr. Rabindranath Sarma
Folk Theatre	UG	Centre for PA	Dr. M. Ramakrishnan
Material Culture	UG	CICS	Dr. Jisha C.K.
Indigenous People and their Languages	UG	CICS	Mr. Sudhanshu Shekhar

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	-	
Associate Professor	2	1	
Assistant Professor	4	4	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Rabindranath Sarma	MA, PhD.	Associate Professor and Head	Folkloristics	9 years	Enrolled 1
Dr. M. Ramakrishnan	MA, MPhil, PhD.	Assistant Professor	Semiotics	13 years	Enrolled 1
Dr. Jisha C,K,	MA, MPhil, PhD.	Assistant Professor	Folkloristics	1 year	Nil
Dr. T. Neishoning Koireng	MA, PhD.	Assistant Professor	Folkloristics	1 year	Nil
Mr. Sudhanshu Shekhar	MA, PhD.	Assistant Professor	Linguistics	1 year	Nil

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

13. Percentage of classes taken by temporary faculty: NA

(Programme-Wise Information)

14. Programme-Wise Student Teacher Ratio: 1:5 at MA level and 1:1 at PhD level

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Nil

16. Research thrust areas as recognized by major funding agencies

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration:

(b) International Collaboration:

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: (Total Grants Received)

20. Research facility / Centre with:

(a) State Recognition:

(b) National Recognition

(c) International Recognition:

21. Special research laboratories sponsored by / created by industry or corporate bodies

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
	Please see Annexure - I

23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad:

(i) Dr. Rabindranath Sarma was the visiting Professor at University of Tartu (Estonia) in 2012

(ii) Dr. Rabindranath Sarma was

Invited Speaker at:

1. International Seminar on Belief Narrative Genres, 28-30 August, 2012, at Novi Sad, Serbia.
2. Skills training Workshop for Tata fellows in Folklore 28-30 November, 2012 at CUJ.

Keynote Speaker at:

1. The First MSU International Storytelling Festival (MSUISF 2013, 1-3 February, 2013
2. Winter School of International Folkloristics, 2014.

Chaired a session at:

1. 34th Indian Folklore Congress at Kohima, Nagaland, 2011.
2. Folklore and Intangible Natural Heritage 12-14 January, 2013 at Bhubaneswar, Odisha.
3. Master Class Storytelling Workshop at Mahasarakham University, Mahasarakham, Thailand, 1-3 February, 2013.
4. Genres of Belief from A Folkloristic perspective at USTM, Meghalaya, 4-5 February, 2013.

26. Faculty serving in:

(a) National Committees

(b) International Committees

(c) Editorial Boards

(d) Any Other Please Specify

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others) : All four of the Assistant Professors of the centre attended the UGC's **Orientation** programme offered by different UGC ASC's

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects

(b) percentage of students doing projects in collaboration with other universities / industry / institute

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Dr. M. Ramakrishnan got Presidential award for Young scholar in Classical Tamil in 2012.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

1. The Winter School of International Folkloristics ("**Tradition, Creativity and Indigenous Knowledge: Winter School of International Folkloristics and Indigenous Culture**") was held from January 12 to 21, 2014. This was a collaborative programme with the Department of Estonian and Comparative Folklore, University of Tartu, Tartu, Estonia and the Centre of Excellence in Cultural Theory. This is the first International Winter School in Folkloristics at Central University of Jharkhand and in India as well.
2. The Centre for Tribal Folklore, Language and Literature, Central University of Jharkhand, Ranchi, was organizing a three-day National Seminar on the Language and Culture of Sangam Age and Its Impact on Indigenous-Tribal Communities in India from 31st March to 2nd April, 2014 at CUJ Campus, Brambe (Ranchi) in collaboration with the Central Institute of Classical Tamil (CICT), Chennai.

31. Code of ethics for research followed by the Centre: The centre follows the code of ethics proposed in the field of Humanities and Social Science with reference to Folklore Studies.

32. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
MA in Folkloristics (2013)	2	2			
MA in Folkloristics (2014)	2	0	0		
PhD (2014)	8	1	1		

33. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
MA in Folkloristics	50		50	

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): Nil.

35. Student progression: This is our first batch only.

Student Progression	% against enrolled
UG to PG (year wise & course wise)	
PG to M.Phil/Ph.D	
Ph.D to Post Doctoral	
Employed through campus selection	
Employed through other than campus recruitment	
Self-employed /entrepreneurs	

25. Diversity of staff:

Percentage of staff from the State	0
Percentage of staff from other States	100
Percentage of staff from other countries	0
Percentage of staff who are graduates of the same university	0
Percentage of staff who are graduates from other universities within the state	0
Percentage of staff who are graduates from universities from other states	100
Percentage of staff who are graduates from other universities outside the country	0

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: 2

38. Present details about infrastructural facilities:

Library	
Internet facility for staff & students	Yes
Total number of class rooms	1
Class rooms with ICT facility	Yes
Student's laboratories	
Research Laboratories	
Others	As the University is located in Tribal area it is very easy for field work or the student and researcher.

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university:

(b) From other institutions/universities:

40. Number of students of the centre getting financial assistance from the university (2-5 per year): 0

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it? We have received feedback on our syllabus from the senior faculty of the University of Tartu, Estonia, Mahasarakham University, Thailand and University of Gauhati.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

43. List the distinguished alumni of the centre (maximum 10): -

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: (a) Students participated the above mentioned (Sl. No. 33) programmes. (b) Ms. Sabia Hashami, Centre for Linguistics, JNU, New Delhi-67 gave a lecture on Politics of Language and Identity in India (c) Mr. Rajiv Velichetti, University of Hyderabad delivered a lecture on Performing Arts.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are: Our faculty members use power point presentations and the skype (sometime), sending materials to students through e-mail and supplying books and Xerox materials.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

47. Highlight the participation of students and faculty in extension activities: Students and faculty members are counsel to village people time to time.

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise): Organised seminar and Winter school as stated in point no 33.

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No.

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. The centre is in inception stage.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths: All faculty are from (1) different linguistic and cultural background (2) from reputed institutions with specialization in the areas related to Tribal Folklore, Language and Literature, which fosters a multi-disciplinary atmosphere and cross-pollination of methodology in research and teaching (3) gender equality (4) The centre completely fits in to the vision of the university as the university's thrust area is Culture, (5) situated in a multi-lingual, multi-cultural, multi-ethnic state like Jharkhand which also owns huge and interesting bio-cultural diversity. This gives the centre a sui generis strength and capability of field works.

(B) Weaknesses: (1) Infrastructure scarcity (2) space (3) limited faculty (4) Fund and (5) Equipments.

(C) Opportunities: (1) Creating an opportunity for the different tribal groups to have primary education in their respective mother tongue (2) Preserving and revitalizing linguistic and cultural mosaic of Jharkhand (3) Creating an atmosphere where the indigenous people of Jharkhand could get an opportunity to propagate and promote folk medicines, material culture, artifacts etc. (4) Making the centre a Centre of Excellence and (5) International exchange programme.

(D) Challenges: (1) working in a limited space (2) sheer scarcity of equipment's and proper infrastructure (3) documenting, revitalizing Folklore material and languages of Jharkhand (4) creating collaborations with institutions of international acclaim in the area of Folkloristics And (5) handling and processing the official and non-academic assignments without a single non-teaching staff.

52. Future plans of the centre:

- ❖ Collection, preservation and dissemination of Tribal Folklore, Language and Literature.
- ❖ To consolidate study with research, while acquiring new bodies of knowledge for the benefit of the discipline Tribal Folklore, Language & Literature and thereby supporting overall development.
- ❖ To provide opportunity for study Tribal Folklore, Language and Literature of this region of India.
- ❖ To make comparative study of folklore, language and literature of different tribal communities of Jharkhand.

- ❖ To encourage to study the comparative study of the Tribal Folklore, Language and Literature of this region and other parts of India and abroad.
- ❖ To endeavor to peer into the socio-cultural aspects of language to study how variations construct and are constructed by identity and culture.
- ❖ To safe guard and revitalizes the languages.
- ❖ To promote cross-disciplinary and cross-methodological discussion in the study of sociolinguistics, language endangerment, language maintenance, shift and revitalization and strived for genuine discussion and cross-pollination between various disciplines and research traditions, their theories, methods, and data, and between researchers of different languages across the globe.
- ❖ To promote research collaboration with both local and international body/institutions.
- ❖ To offer lifelong educational opportunities, particularly at the tertiary level, to the public.
- ❖ To establish a folk museum
- ❖ To create a digital archive.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

CENTRE FOR TRIBAL FOLKLORE, LANGUAGE AND LITERATURE

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. **Dr. Rabindranath Sarma:** Chhau: A Folk Performance of Eastern India in University News A Weekly Journal of Higher Education by Association of Indian Universities published in Vol. 51 No. 05. February 04-10, 2013

(B) Papers presented in National/International Conferences/Seminars/etc.

Dr. Jisha C.K.:

1. Presented a paper titled ‘ Syntagmatic analysis of folktale’ at the academic Seminar held during Akhra Tribal India Festival 2013 from 28/10/2013 to 30/10/2013 at the Central University of Jharkhand.
2. Presented a paper titled ‘Kalari Treatment With Special Reference to the Kalari Massage System’ at the Winter School of International Folkloristics and Indigenous Culture on "Tradition, Creativity and Indigenous Knowledge " at the Central University of Jharkhand, Ranchi, India (January 12 – 19, 2014)
3. Presented paper titled Sacred Groves and Global Warming , with special reference to the sacred groves in Kerala” at the International seminar on environmental crisis organized by Institute of Social Development and Research From 22nd Feb to 24th Feb 2014.
4. Presented paper titled ‘Tinai concept in sangam literature’ at the National Seminar on **Language and Culture of Sangam Age and Its Impact on the Indigenous and Tribal Communities** in India at the Central University of Jharkhand, during 31st of March- 2nd of April, 2014.

Mr. Sudhanshu Shekhar:

1. Presented a paper titled ‘Improvement of English language learning at the primary level’ at UGC sponsored national seminar on State Quality Mission in Bihar: Challenges and Implications for English Language Teaching in the Context of RTE at R.N. College, Hajipur, 22-23 September 2012.

2. Presented a joint paper titled 'Linguistic Trajectories of English Language: From a Global to Glocal Perspective' at the UGC sponsored national seminar on Challenges of Teaching Language and Literature in the age of Globalization held at S.N. Sinha College Magadh University, 7-8 December 2012.
3. Presented a joint paper titled 'Multilingualism as a Resource in English Language Teaching' at the UGC sponsored national seminar on Challenges of Teaching Language and Literature in the age of Globalization held at S.N. Sinha College Magadh University, 7-8 December 2012.
4. Presented a paper titled '**Voices from the Margins: What can We Do?**' at the academic Seminar held during Akhra Tribal India Festival 2013 from 28/10/2013 to 30/10/2013 at the Central University of Jharkhand.
5. Paper titled '**Sociolinguistics of schwa fronting in eastern Hindi**' presented at ICOSAL conference held from 26th -27th of January, 2014 at Banaras Hindu University.
- 16 Paper (single authored) titled '**Acoustic Cues for Schwa fronting in Eastern Hindi**' presented at the 30th South Asian Languages Analysis Roundtable (SALA 30) held from 6-8th February, 2014 at the Hyderabad Central University, Hyderabad.
- 17 Paper (co-authored) titled 'Proverbs- as carrier of caste-culture hegemony' presented at the 30th South Asian Languages Analysis Roundtable (SALA 30) held from 6-8th February, 2014 at the Hyderabad Central University, Hyderabad.
- 18 Presented a poster entitled "Language Endangerment in Jharkhand: Challenges and Prospects" has been selected for a poster presentation at the CIIL-sponsored National Workshop "Revitalising Endangered Languages: Objectives, Issues, and Strategies" held at Jawaharlal Nehru University on 9-10 December 2014.

Dr. T. Neishoning Koireng:

1. Presented a paper in Interim Conference of the International Society for Folk Narrative Research on February 22nd to 25th 2011, at North Eastern Hill University.
2. presented paper in the Winter School of International Folkloristics and Indigenous Culture on "Tradition, Creativity and Indigenous Knowledge" organized by the Centre for Tribal Folklore, Language and Literature (Central University of Jharkhand, Ranchi, India) and the Department of Estonian & Comparative Folklore (University of Tartu, Estonia) in co-operation with the Centre of Excellence in Cultural Theory (Estonia) from 12th -19th January 2014.

3. Presented a paper in the National Seminar on “ Semiotics and Folklore” at Shillong from 27th to 28th September 2011, organized by Department of Cultural and Creative Studies NEHU, Shillong.
4. Presented a paper entitled “Material Culture and Performing Folk Arts of the Biates Community” at the NFSC Conference for Tata Fellows in Folklore organized by National Folklore Support Centre, Chennai in collaboration with Department of Cultural and Creative Studies, North Eastern Hill University, Shillong on 24th -26th September 2013.
5. Presented a paper entitled “Significance of Tiger: A Study on the oral Narratives of the Korens of Manipur” in the Akhra 2013, Academic Seminar held on 28th -30th October 2013 organized by Central University of Jharkhand.
6. Presented paper in the National Seminar on “Language and Culture of Sangam Age and its Impact on the Indigenous-Tribal Communities in India” organized by the Centre for Tribal Folklore, Language and Literature (Central University of Jharkhand, Ranchi, India) sponsored by the Central Institute of Classical Tamil from 31st March to 2nd April 2014.

Dr. M. Ramakrishnan:

1. 2010 (June) National Seminar on Ajivakam, World Tamil Association in association with Tenkasi Tamil Sangam – Presented a paper on the Concept of Asivakam
2. 2011 (May) National Seminar on Life of Senior Citizens: Lores and Concerns, Calicut University. Presented a paper on Senior Citizens and Folk Knowledge System – Humanist vs Folklorist Point of View.
3. 2012 (January) National Seminar on Traditional Knowledge Systems Found in the Tamil Classics organized by CICT in association with the Department of Tamil, Gandhigram Rural University, Dindigul. Presented a paper on Pazhamozhi Naanuru in the context of Traditional Knowledge System.
4. 2012 (February) National Seminar on Tamil Philosophical Tradition from Tolkappiyam organized by CICT in association with International Institute of Tamil Philosophy, Language and Culture, Thiruchirappalli and held at St. Joseph’s College, Thiruchirappalli. (Presented a paper on Critical Approach to Asivakam)
5. 2012 (March) 35th Indian Folklore Congress held at Central Institute of Indian Languages, Mysore (in association with the IGNCA, New Delhi), on 14-16, December 2012. (Folklore as Cultural Knowledge System with Reference to Ancient Tamil Text, Pazhamozhi Nanuru – accepted for presentation)
6. 2012 (March) National Symposium on Anthropological Explorations in Tamil Antiquity organized by the Dept of Anthropology, Central Institute of Classical Tamil. (Coordinated by Me)

7. 2012 (March) National Seminar on Sangam Literature Religious Beliefs and Forms organized by CICT in association with the Thenpodhigai Tamil Sangam and Dept of Excellence for Tamil Studies, Sri Parasakthi Women's College, Courtallam, held on 28-30. Presented a paper on the Contemporary Evidences of Sangam Age.
8. 2012 (March) National Seminar on Reconstructing Sangam Age through the Cultural Practices in Kerala organized by CICT in association with the School of Folklore Studies, University of Calicut held at Calicut University on 30 March-1 April, 2012. (Presented a paper on Essence of Sangam Age from the Samples of Sangam Literature)
9. 2012 (May) National Seminar on Rites of Passage in Globalization Era organized by School of Folklore Studies, University of Calicut held at Calicut University on 31 May, 2012.
10. (Presented a paper on – Rites of Passage with reference to Farewell Party) 2012 (August) National Workshop on Education and Folklore organized by the Department of Folklore, University of Calicut (Kerala), on 22 & 23 August 2012 at Calicut University Campus. (delivered Keynote address, chaired a session and presented a paper on Education and Folklore in the context of Traditional Knowledge System)
11. 2012 (September) National Symposium on Bharathakoothu in Chitrakathi Paintings held at Lalit Kala Akademi, Chennai on 22 September 2012 by Mr. Balaji Srinivasan.
12. 2012 (October) National Seminar on Gramswaraj and Folklore organized by the Department of Folklore Studies, University of Calicut (Kerala), on 1-3, October 2012 on the eve of Gandhi's Birth Anniversary Celebrations. Delivered Keynote address, chaired a session and presented a paper.
13. 2012 (October) One day seminar on Antiquity and Uniqueness of Classical Tamil was organised at Courtallam (Tirunelveli District) on 13 October 2012.
14. 2012 (December) Participated as Observer in the International Rock Art Conference 2012 organised by Indira Gandhi National Centre for the Arts (IGNCA) and Ministry of Culture, Govt. of India, at IGNCA campus, New Delhi (from 6-13, December 2013).
15. 2013 (January) Presented a paper on Tholthamizhar Arivu Marapu (Knowledge Tradition of Ancient Tamils) at a National Training Programme for Higher Secondary School Teacher, organized by International Research Institute of Tamil Language, Philosophy and Culture in association with Central Institute of Classical Tamil (CICT) on 28 January – 6 February 2013 at St. Joseph College, Thiruchirappalli.
16. 2013 (March) Presented a paper on Rock Art Paintings and Ancient Tamil Civilization at a National Training Programme on Multidisciplinary Approaches to Sangam Literature organized by Thenpodhigaith Tamil Sangam (Tenkasi) in association with Tiruvalluvar Arts College, Papanasam and Central Institute of Classical Tamil from 11-20, March 2013.

17. 2013 (March) Delivered a felicitation address and valedictory at the inaugural function of the national training programme on the roots of Sangam Literature organized by the School of Folklore Studies, University of Calicut in association with the Central Institute of Classical Tamil held on 23 March -1 April 2013.
18. 2013 (March) Delivered two lectures at National Training Programme on the Roots of Sangam Literature organized by the School of Folklore Studies, University of Calicut in association with the Central Institute of Classical Tamil held on 23 March -1 April 2013.
19. 2013 (March) Presented a paper on the Pathitruppatthu – from Folkloristic Point of View at National Seminar on Pathitruppatthu organized by the School of Folklore Studies, University of Calicut in association with the Central Institute of Classical Tamil held on 29 - 31 March 2013.
20. 2013 (June) Presented a paper on the Folklore and Sustainable Development at Fossils 2013 (August) Participated in the five day Orientation Programme on Towards understanding the Emerging Social Theories, organized by MIDS, Chennai and Sponsored by ICSSR, New Delhi (Aug21-24. 2013)
21. 2013 (October) Presented a paper on the Symbolic and Cognitive functions of Folk Forms – Piercing a Banana tree by the Santhal Community in the International Seminar organized on the occasion of the Akhra 2013 Tribal India Festival by the Central University of Jharkhand (28- 30 October, 2013)
22. 2013(November) Presented a paper on The Cognitive Functions of Folk Form: Language, Cognition and Behaviour in the International Conference of Linguistic Society of India in association with the Central Institute of Indian Languages, Mysore (Nov. 27-29, 2013)
23. 2014 (January) Presented a paper on Applied Folklore: An Example form Ancient Tamil Classics, Palamozhi Naanuru at the Winter School organized by Central University of Jharkhand in association with the Tartu University, Estonia on 12-19 January 2014
24. 2014 (February) Presented a paper on The Origin Myth of the Santhals: Narrative Construction of Blood Relationship – A Semiotic Study at the 37th Indian Folklore Congress (Manipur University 5-7 February 2014)
25. 2014 (March) Presented a paper on The Impact of Language and Culture of Sangam Age on the Indigenous communities in India (March 31-2 April 2014) at National Seminar on Classical Tamil.
26. 2014 (August) Presented a paper at the importance of ancient knowledge tradition with reference to Sangam Age Soceity (Ramanathapuram Sethupathy college, Ramanathapuram, August 21&22, 2014.
27. 2014 (November) Presented a paper in the international seminar on Human Resource with reference to Folklore (ISDR, Rnachi) 2014.(December) Presented a pa per in the International seminar on Aplplied Tamil organized by Department of Tamil, Ethiraj College for Women, Chennai.

Dr. Rabindranath Sarma:

1. Paper presented on Problem of defining 'Indigenous Peoples' in Indian Context International Seminar on Tradition, Identity and Diversity: the Future of Indigenous Culture in a Globalised World. 1st -2nd February, 2011. At Central University of Jharkhand, Brambe, Ranchi.
2. Paper presented on Jharkhand Movement and Cultural Identity in Interim Conference of the International Society for Folk Narrative Research. 22nd – 25th February, 2011 at North-Eastern Hill University, Shillong.
3. Attended and presented a paper jointly with Prof. Desmond L. Kharmawphlang on Indigenous People and Culture of North-East India & Its Unity in Diversity in Three Day International Seminar on "Indo-Iranian Cultural Heritage in the Context of Sufism as A Strong Bond Of Cultural Relations Between India, Iran, Afghanistan, Turkey and Central Asia" from 2nd to 4th February,2012. At Gauhati University.
4. Presented paper on Performance, and Belief tradition in Seraikella Chhau and Purulia Chho at BNN Conference, 2012, University of Novi Sad, Serbia.
5. Presented paper on Indigenous Culture of India at Academic Folklore Society, 2012, Estonian Literary Museum, Estonia.
6. Presented paper on Archiving Folklore material in India, Conference of Archives and Communities, 2012. Estonian Literary Museum, Estonia.
7. Presented paper on Indigenous People and Folklore of Eastern and North-East India, 2012. Centre for Oriental Studies, University of Tartu, Estonia
8. Presented paper on Folklore Studies in North-East India. 2012. Academic Folklore Society, Estonian Literary Museum, Estonia.
9. Presented paper on The Adi Dharam-A Religious Belief of the Tribes of Jharkhand. At Genres of Belief from A Folkloristic perspective 2013. USTM, Meghalaya and University of Tartu, Estonia
10. Presented paper on Cultural Studies as an Academic Discipline in North-East India at National Workshop on Recent Trends in Cultural Studies, 22nd – 23rd November, 2010, organised by Central University of Jharkhand, Brambe, Ranchi.
11. Presented paper on A Folkloristic Study on Significance on Chhau of Seraikela at 34th Session of Indian Folklore Congress and National Seminar on Folklore, Ethnicity and Identity. 9th – 11th December 2010, organised by Nagaland University, Kohima, Nagaland.
12. Presented paper on Oraon oral tradition: a case study in the Brambe village at CUJ at 35th session of Indian Folklore Congress
13. Presented paper on Touristic Significance of North-East India at NEICSSR Seminar, 2011, Shillong.

14. Presented paper on Edible Insects as Tribal Food among the Rabhas of Assam at National Folklore Seminar on Folklore and Intangible Natural Heritage, organised at Regional Museum of Natural History, Bhubaneswar, Odisha.
15. Presented a paper on Religious Beliefs of the Oraons at National Seminar on Rabindranath Tagore and Indian Folkloristics, Bhasha-Bhavana, Visva Bharati.
16. Presented a paper on Adi-dharam, the Great Spirit and the Creation at National Seminar on Inter-State Border Cultural Transactions: Exploring the Praxis of Folk Communicative Norms in North-East India organised by Dept. of Cultural and Creative Studies, NEHU, Shillong

(C) Books/Monographs/Edited Books

Dr. T. Neishoning Koireng:

Published: Unwritten Customary Law of North-East India. DBCIC Publication, Shillong, 2010.

Dr. M. Ramakrishnan:

1. Kathaignarum Kathaikalum, Karusamuthu Ammal – Uremelalagian (2006, reprint in 2010)
2. Punjabi Folktales (Translation) (2010)
3. Tholthamizhar Arivu Marapu (edited with Prof. R. Chakkupai)
4. Chemmozhi Selvam – Prof. Ku.Sivamani’s 80th Birthday Felicitations Volume (co-edited by Prof. K. Ramasamy and Prof. P. Marudanayagam) (2011-12)
5. Essays on Classical Tamil (coedited with Prof. P. Marudanayagam & Prof. Ku. Sivamani)
7. Jharkhand – From Folkloristic Perspective – (in Press)

Dr. Rabindranath Sarma:

- (i) Colour, Design and Symbols: Boro Womens’ Dress in Cultural Context. 2010
Published by Book Land, Guwahati.
- (ii) Chapchar Kut. 2010, Published by Book Land, Guwahati.
- (iii) Co-editor of the book Indigenous Cultures and Dances in Jharkhand [ISBN 978-93-80431-06-2] National Folklore Support Centre, Chennai-600034

(D) Chapter(s) in Books

Dr. T. Neishoning Koireng: Yet to be published: Contributed for the People’s Linguistic Survey of India (PLSI) in the Manipur volume titled THE

LANGUAGES OF MANIPUR to be published by THE ORIENT BLACKSWAN (OBS) Delhi publishing house. It is on the process.

Mr. Sudhanshu Shekhar:

- 1) 'Semantics of classifiers in some Indian languages' published in the proceedings of SCONLI-3 by JNU and CIIL, Mysore in 2011 (Parimal Publications, New Delhi).
- 2) Paper titled 'White Collar Corruption' published in the proceedings entitled Corruption in Public Life: Causes and cures of the national eloquence contest organised under the joint auspices of Rotary International and Sanrachana edited by Kanhaiya Prasad Singha in 2009.
- 3) Paper titled 'Exploring Inflectional Errors in Learners of English as Second Language' published in the proceedings of the 32nd AICL held in the University of Lucknow, Lucknow in 2011.
- 4) Article titled '**BhashiyeVividhtaAur Jharkhand KaSamagraVikash**' published in Hindi daily Khabar Mantra published from Ranchi on dated 15/11/2013.
- 5.) Article titled '**BhashiyeSanskritiyaomSikshaPadati**' published in Hindi daily Khabar Mantra published from Ranchi on dated 26/01/2014.
- 6) Paper titled 'About Nyishi Language' Published in the 2nd Volume of Language Endangerment in South Asia.

Publications in the offing

1. Paper (co-authored) titled '**Proverbs- as carrier of caste-culture hegemony**' Selected for publication at the 30th South Asian Languages Analysis Roundtable (SALA 30).
2. Paper titled 'Nyishi world through words' selected for publication by Cambridge University Press.

Dr. M. Ramakrishnan: Articles published in

1. 2010 - Translation - Punjabi Folktale No.1 (Muzhavu)
2. 2011 - Review – kavithaikaL CD by Jeyabhaskar (Muzhavu)
3. 2012 - Proverbs as Cultural Knowledge Systems – in Agni Siragukal Publication
4. 2012 - Asivakam – Critical Perspective – in Manitham publication
5. 2012 - Knowledge Concepts in Ancient Tamil Society – in Manitham publication
6. 2013 - A (Folkloristic) Note on Ancient Tamil Text – Pazhamozhi Naanuuru – in Journal of Kerala Folkloristics published by School of Folklore Studies, University of Kerala.
7. 2013 - Rethinking on Culture in the Tamil Context – in Thenpodhigai Tamil Sangam publication
8. 2014. Tholthamizhar Aruvu Marau, (in the Seminar Proceedings).
9. 2014 Applied Tamil for Folkloristics (proceedings in the seminar at Ethicraj College for Women, Chennai).

CENTRE FOR PERFORMING ARTS

1. Name of the Centre & its year of establishment:

CENTRE FOR PERFORMING ARTS

Established in JUNE 2013

2. Names of Programmes/Courses offered:

(UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

(i) *UG – Bachelor in Performing Arts (BPA), 3 years, 6 Semesters in Vocal Music/Theatre Arts*

(ii) *PG – Master in Performing Arts (MPA), 2 years, 4 Semesters in Vocal Music*

(iii) *PG – Master in Performing Arts (MPA), 2 years, 4 Semesters in Theatre Arts*

(iv) *PhD in Music*

3. Interdisciplinary courses and Centres involved:

BPA course is interdisciplinary in nature as students have to study both Vocal Music and Theatre Arts for first three Semesters and later they may opt any one of the two.

4. Annual/ Semester/Choice Based Credit System:

Semester system with CBCS

5. Participation of the Centre in the courses offered by other Centres:

N/A

6. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Professor – 01 – Not filled

Associate Professors – 02 - Not filled

Asst. Professors – 04 – Filled

7. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
<i>Ms.</i>	<i>PhD</i>	<i>Assistant</i>	<i>Vocal</i>	<i>One</i>	<i>N/A</i>

<i>Jaya Shahi</i>	<i>(pursuing), from BHU UGC NET-JRF, M.Mus from BHU</i>	<i>Professor & Coordinator</i>	<i>Music (Hindustani Classical)</i>	<i>year & six months</i>	
<i>Mr. Shakir Tasnim</i>	<i>M.Phil from JNU UGC NET-JRF</i>	<i>Assistant Professor</i>	<i>Acting Techniques, Natyashasthra, Folk Theatre, Applied Theatre, Dramatic Literature</i>	<i>One year & six months</i>	<i>N/A</i>
<i>Mr. Venkata Naresh Burla</i>	<i>M.P.A (Theatre Arts) Ph.D (Pursuing) University of Hyderabad UGC NET-JRF MAIPR (Erasmus Mundus),</i>	<i>Assistant Professor</i>	<i>Performance Theory, Design and Direction</i>	<i>One year & six months</i>	<i>N/A</i>
<i>Dr. Deepika Srivasatava</i>	<i>PhD University of Allahabad UGC NET</i>	<i>Assistant Professor</i>	<i>Vocal Music (Hindustani Classical)</i>	<i>One year & six months</i>	<i>01 Student Enrolled</i>

8. Percentage of classes taken by temporary faculty: N/A

(Programme-Wise Information)

9. Programme-Wise Student Teacher Ratio:

- (i) BPA course – 04:04
- (ii) MPA course (Vocal Music) – 01:02
- (iii) MPA course (Theatre Arts) – 03:02
- (iv) Phd – 01:01

10. Number of academic support staff (technical) and administrative staff:

- (i) *Accompanist (Tabla) – 01 (Temporary)*
(ii) *Accompanist (Harmonium) – 01 (Temporary)*

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:N/A

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency

**12. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.;
N/A**

Research facility / Collaboration with:N/A

13. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
<i>Ms. Jaya Shahi</i>	<i>Journals – 03 Seminar Proceedings - 03</i>
<i>Mr. Shakir Tasnim</i>	<i>Book – 01</i>
<i>Mr. Venkata Naresh Burla</i>	<i>Nil</i>
<i>Dr. Deepika Srivasatava</i>	<i>Book – 01 Journals – 06</i>

14. Details of patents and income generated:N/A

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

15. Areas of consultancy and income generated:N/A

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

16. Faculty recharging strategies:*N/A*

17. Student projects:*N/A*

18. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:*N/A*

19. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):*N/A*

20. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
<i>BPA Semester 01</i>		<i>01</i>	<i>01</i>		
<i>BPA Semester 03</i>		<i>01</i>	<i>01</i>		
<i>MPA (VM) Sem. 01</i>		<i>--</i>	<i>01</i>		
<i>MPA (TA) Sem. 01</i>		<i>03</i>	<i>--</i>		
<i>PhD Music</i>		<i>--</i>	<i>01</i>		

21. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
<i>BPA Semester 01</i>		<i>50%</i>	<i>50%</i>	
<i>BPA Semester 03</i>		<i>100%</i>		
<i>MPA (VM) Sem. 01</i>		<i>100%</i>		
<i>MPA (TA) Sem. 01</i>			<i>100%</i>	
<i>PhD Music</i>			<i>100%</i>	

22. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?
(Give details)*N/A*

23. Student progression:*N/A*

Student progression	% against enrolled
UG to PG (year wise & course wise)	
PG to M.Phil/Ph.D	
Ph.D to Post Doc	
Employed through campus recruitment	
Employed through other than campus recruitment	
Self-employed /entrepreneurs	

24. Diversity of staff:

Percentage of staff from the State	--
Percentage of staff from other States	100%
Percentage of staff from other countries	--
Percentage of staff who are graduates of the same university	--
Percentage of staff who are graduates from other universities within the state	--
Percentage of staff who are graduates from other universities within other states	100%
Percentage of staff who are graduates from other universities from other countries	--

25. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period:

Dr. Deepika Srivastava – PhD awarded in 2010.

26. Present details about infrastructural facilities:

Library	--
Internet facility for staff & students	<i>Yes</i>
Total number of class rooms	<i>03</i>
Class rooms with ICT facility	<i>Yes</i>
Student's laboratories	--
Research Laboratories	--
Others	--

27. Number of students of the centre getting financial assistance from the university (2-5 per year): *N/A*

28. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.*N/A*

29. Does the centre obtain feedback from: *N/A*

(A) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

(B) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

(C) Alumni and employers on the programmes and what is the response of the centre to the same?

30. List the distinguished alumni of the centre (maximum 10):*Nil*

31. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) with external experts:

Special lecture cum demonstration for two weeks was organized for Mime and Movement (part of Theatre) and Mr. Siva Prasad Tumu, Asst. Prof., Univ. of Rajasthan was the invitee.

32. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Audio-Visual Method, One to one teaching method based on Guru Shishya Parampara, Performance oriented methodology, use of ICT, Record/CD listening hours, Hand drawings and computer drawings for design, etc.

33. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Periodic evaluation of students through sessional and Semester Examination

34. Highlight the participation of students and faculty in extension activities:

Centre also runs Music Guild and Theatre Guild in which the students of the Centre along with other UG courses within the University, participate and perform in different cultural programmes. Centre organized a full length play with these students on the occasion of World Theatre Day, 27th March 2014. Later this play was invited for being staged by Ashirwad Rangmandal, Begusarai. Centre actively participated in various cultural activities organised within the University.

35. Give details of “beyond syllabus scholarly activities” of the centre: (year wise)

Centre participates in various cultural programmes organized within the University and we are training students to participate in different cultural festivals organized at national level.

36. State whether the programme/ centre is accredited/ graded by other agencies. Give details: N/A

37. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre

Centre is having a very talented and young faculty strength which is full of new and innovative ideas. Well defined and unique curriculum. Promoting higher studies in the concerned subjects in the area.

Infrastructure to be improved.

Courses are very well designed which will surely create new opportunities for the Centre.

To promote local folk/tribal performing art, to ensure more International, National and local participation are the challenges faced by the Centre

38. Future plans of the centre:

Centre is planning to add other subjects such as Dance and Instrumental Music along with present Vocal and Theatre disciplines in the curriculum. Centre wants to encourage research in folk/tribal music and culture in order to promote Jharkhand's culture and facilitate local participation.

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

NAME: **Ms. Jaya Shahi**, Assistant Professor & Coordinator, Centre for Performing Arts

(A) Research Papers in Peer Reviewed/Indexed National/International Journals - 03

1. Shahi.Jaya, “Modes of Voice Production involved in Speech and Singing” in *Drishti – ShodhPatrika*, Student’s Council, Banaras Hindu University, Varanasi. ISSN No. 2250-2467, Vol. -3, No.-2, Page No.-64-68, Year-2012
2. Shahi.Jaya, “ RaagokeAprachalit hone kekaarano par ekdrishti” in *AprachalitRaagaurTaal*, Editor – Prof. Swatantra Sharma, Anubhav Publishing House, Allahabad. ISBN: 978-93-80134-32-1, Edition -1, Page No.- 427-9, Year -2011
3. Shahi.Jaya, “Manushyomeinswarotpattikekarak” in *Bhairavi – SangeetShodhPatrika*, MithilanchalSangeetParishad, Darbhanga. ISSN No. 0975-5217, Vol.-3, Page No.-30-32, Year-2011

(B) Papers presented in National/International Conferences/Seminars/etc. – 12

1. Presented paper titled “*Stryi Shakti – Empowered Nation*” in National Seminar on “Challenges of Women Empowerment in India” organized by Department of Economics, Mahatma Gandhi KashiVidyapith, Varanasi, U.P. from July 23-24, 2014.
2. Presented paper titled “*Musical Elements in Tamil Epic Silappatikaram*” in National Seminar on “Language and Culture of Sangam Age and Its Impact on the Indigenous -Tribal Communities in India” organized by Centre for Tribal Folklore, Language and Literature, CUJ from March 31 – April 2, 2014.
3. Presented paper titled “*Uttar Pradesh keRituSambandhiLokGeet: ParamparaevamVartamanStithi*” in International Seminar on “LokSahityavaSanskriti: SamarthyaAurChunautiyan” organized by Department of Hindi, Faculty of Arts, Banaras Hindu University, Varanasi, U.P. from January 30-31, 2014.
4. Presented paper titled “*Folk Operatic Theatre Performance – Nautanki : An Overview*” in National Seminar on Bharat kiloksanskriti: Paramparaevampratibimb, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi, from September 21-22, 2012

5. Presented paper titled “*Ikkisavishatabdimeinraaggayanshailiyan: Badlavevamswaroop*” in International Seminar on Indian Art Forms, organized by Indira Kala SangeetVishwaVidyalaya, Khairagarh, from February, 26-28, 2012
6. Presented paper titled “*Healing Power of Music*” in International Seminar on Current trends in Music therapy practices: Methodology, techniques and implementation, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi from February, 17-18, 2012
7. Presented paper titled “*Musical Journey of Rabindranath Tagore and the concept of musical education*” in International Seminar on Discovering Tagore’s approach to education through his music, art and literature, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi from December, 1-3, 2011
8. Presented paper titled “*Poorviuttar Pradesh meinprachalitlokgayanshailiyaan: ekvivechana*” in State level Seminar on Uttar Pradesh kiloksanskriti: Paramparaevampratibimb, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi, from September 19-21, 2011
9. Presented paper titled “*Therapeutic aspect of Indian Classical Music*” in National Seminar on Sangeet and Yoga, organized by Sri ArvindMahila College, Patna from February 11-12, 2011
10. Presented paper titled “*RaagokeAprachalit hone kekaarano par ekdrishti*” in National Seminar on Rare Ragas and Talas, organized by Department of Music and Performing Arts, University of Allahabad, Allahabad from December, 10-11, 2010
11. Presented paper titled “*Veda me varnitswarlipipaddhatikiavadharna*” in National Seminar on Different Notation System: Concept and Evaluation, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi, from November 10-11, 2010
12. Presented paper titled “*Different Dimensions of Musicology*” in National Seminar on Musicology and Ethnomusicology, organized by Faculty of Performing Arts, Banaras Hindu University, Varanasi, from December 14-15, 2009

NAME: *Mr. ShakirTasnim, Assistant Professor, Centre for Performing Arts*

(A) Research Papers in Peer Reviewed/Indexed National/International Journals—N/A

(B) Papers presented in National/Conferences /Seminars/etc -

- Presented a paper titled “*Dastangoi :Reviving form of Storytelling*” at the academic Seminar held during Akhra Tribal India Festival 2013 from 28/10/2013 to 30/10/2013 at the Central University of Jharkhand.

- Presented a paper titled “*Shilappadikaram and its Theatrical Elements*” in a National Seminar on “Language and Culture of Sangam Age and Its Impact on the Indigenous Tribal Communities in India” organised by Centre for Tribal Folklore, Language and Literature, CUJ from March 31-April 2, 2014.

Papers presented in International/ Conferences/Seminars:

- Presented a paper titled “*Locating the Place and Influence of Mythology in GirishKarnad’s Plays*” at the ISTR International Conference held at the Central University of Rajasthan, India from 08/01/2014 to 11/01/2014.
- Presented a paper titled “*Bharatiya Lok Natya Parampara Evam Bidesiya Shaili*” in an International Conference on “Lok Sahitya Sanskriti: Samarthyaya Aur Chunautiyan” organised by Department of Hindi, Faculty of Arts, Banaras Hindu University (B.H.U) from 30/01/2014 to 31/01/2014.

(C) Books/Monographs/Edited Books :

- Shakir Tasnim (2013), “*Salam Bin Razzaq Apne Afasanon Ke Aayine Mein*” Maktaba-e-Sadaf, Church Road, Muzaffarpur, First Edition, ISBN:81-92726-35-5

NAME: *Mr. Venkata Naresh Burla, Assistant Professor, Centre for Performing Arts*

(A) Research Papers in Peer Reviewed/Indexed National/International Journals - Nil

(B) Papers presented in National/International Conferences/Seminars/etc-07

1. Presented a paper titled "Thematic Adaptation of Folk Tales in Modern Indian Theatre" a National seminar conducted by Indian Folklore Congress at Centurion University, Jagapathi, Odisha from 19th - 21st December 2014.
2. Presented a paper titled “Sangam life’s impact on tribal societies, with reference to Koya tribe” in a National Seminar on “Language and Culture of Sangam Age and Its Impact on the Indigenous Tribal Communities in India” organised by Centre for Tribal Folklore, Language and Literature, CUJ from 31st March - 2nd April, 2014.
3. Presented a paper titled “Ancient Tamil Text, Cilappatikaram: Theatrical Perspective”, a National Seminar conducted by Thenpothigai Tamil Sangam at Tiruchinapalli from 5th-7th March 2014.

4. Presented a paper titled “Addressing Environmental Crisis through Performing Arts”, an International seminar conducted by ISDR at Ranchi from 22nd – 24th February 2014.
5. Presented a Paper titled “Folklore and Political Mobilization: with reference to the centenary celebration of comrade PS- A Theatrical Perspective”, a National seminar conducted by Indian Folklore Congress at Manipur University, Imphal from 5th – 7th February 2014.
6. Presented a paper titled “Possibilities and Problems of Playhouse of Natyasastra in relation with the Performance” an International seminar conducted by ISTR (Indian Society for Theatre Research) at University of Hyderabad from 28th – 30th January 2011.
7. Presented a paper titled “The Language of Surabhi Theatre” an International seminar conducted by ISTR (Indian Society for Theatre Research) at Jawaharlal Nehru University, New Delhi from 28th – 30th January 2009.

NAME: *Dr. Deepika Srivastava*, Assistant Professor, Centre for Performing Arts

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

1. Research paper is published in ‘Parisheelan’ (international bi-monthly journal of all research) (volume 2)
2. Research paper is published in ‘Anvishiki’ (international bi-monthly journal of all research) (volume 7).
3. Research paper is published in “Shabdbramha”- A refereed journal (2013)
4. Research paper is published in “Chaumasa”- A refereed journal (2013)
5. Research paper is published in “Sangeet Galaxy”-A refereed e- journal (2012)
6. Article ‘Veena Par SwarSthapanKeVividhAayam’ published in ‘Nagari’ Patrika’ (2009).

(B) Papers presented in National/International Conferences/Seminars/etc-

1. Participated & Presented Papers In Seven Day National Workshop On “Raga SwaroopoEvamBandish” From 24- 02-2014 To 02-03-2014 In The Faculty Of Music And Performing Arts, Banaras Hindu University, Varanasi.
2. Participated & Presented Papers In One Day Interdisciplinary National Seminar On “Contribution Of Saints In Indian Music” On 4-

02-2014 In The Department Of,
LoknayaKBapujiAneyMahilaMahavidhyalaya, Yavatmal.

3. *Participated & Presented Papers In Three Days Interdisciplinary National Seminar On “Language And Culture Of Sangam Age And Its Impact On The Indigenous-Tribal Communities In India” On 31-03-2014 to 02-04-2014 In The Faculty Of Tribal Folklore, Language And Literature, Central University Of Jharkhand, Brambe, Ranchi.*
4. *Participated & Presented Papers In Two Days National Seminar On “Rare Ragas And Talas” On 10-11 Decembar, 2010 In The Department Of Music And Performing Arts, University Of Allahabad, Allahabad.*
5. *Participated & Presented Papers In Two Days National Seminar On “Music As A Mental & Physical Medicine” On 4 December,2010 In Dayanand Girls P.G College, Kanpur.*
6. *Participated & Presented Papers In Two Days National Seminar On “Woman Empowerment In India: Issues And Perspectives And Paper Titled “SangeetKeMadhyam Se Bharat Mein MahilaSashaktikaran” On 30-31,October 2010 In Allahabad Degree College, Allahabad.*
7. *Participated & Presented Papers In Two Days National Seminar On “Music Texts Of Medieval Period: Historical Perspective & Musical Awareness”On 12th –13th Feb.2009 At The Faculty Of Performing Arts, B.H.U, Varanasi.*
8. *Participated And Presented Paper In Two Days International Seminar On “Loksahtya V Sanskriti: SamarthaAurChunautiya”From 30-01-2014 To 31-01- 2014 In The Department Of Hindi, Banaras Hindu University, Varanasi.*
9. *Participated And Presented Paper In Two Days International Seminar on “PrakritiparakRabindraSangeet” from 18-01-2014 to 19-01-2014organised by Center For Devlopment Studies & Research In Collaboration with RabindraBharati University.*
10. *Participated & Presented Papers In Two Days International Seminar On “The Status & Trend Of Value Oriented Education In Various Subjects Regarding Globalization” And Paper Titled “SangeetKeMadhyam Se MulyaShiksha” On 23-24 October, 2010 at MahilaSevaSadan Degree College, Allahabad.*
11. *Attended The Seminar On “ShaiksharikSamajikaran” Held on 21 Feb,2009 at ShriAgrasenKanya P.G College, Varanasi.*

(C) Books/Monographs/Edited Books

“RAVINDRA SANGEET MEIN SANGEETIK TATVA” Published In (2011)

CENTRE FOR HUMANITIES AND SOCIAL SCIENCES

1. Name of the Centre: Centre for Humanities and Social Sciences

2. Year of establishment: Established in the year 2012 as School of Humanities and Social Sciences, and in 2014 it became the Centre for Humanities and Social Sciences

3. Is the Centre part of a School/Faculty of the University?

Yes, the Centre is a part of the School of Humanities and Social Sciences

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

The Centre at present offers Ph.D course in Economics and Sociology commencing from 2014-15 academic Session

5. Interdisciplinary Programmes/Courses and Centres involved:

In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Micro-Economics	1 st Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Business Mathematics	1 st Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Macro-Economics	2 nd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Statistics for Managers	2 nd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Quantitative Techniques	3 rd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Mathematical Economics	5 th Sem Five Year Integrated Courses	Centre for Applied Mathematics, Physics, Chemistry, Business Administration, Environmental Sciences, Nano-Technology, Water Engineering and Management	Dr.Pabitra Kumar Mishra

Principles of Economics	2 nd sem Four Year B.A.B.Ed	Centre for Education	Dr.Pabitra Kumar Mishra
Engineering Economics	6 th Semester Five Year Nano-Technology	Centre for Nano-Technology	Dr.Pabitra Kumar Mishra
Economics	3 rd Sem Five Year Integrated Applied Mathematics	Centre for Applied Mathematics	Dr.Pabitra Kumar Mishra
Sociology of Development	5 th Sem Five Year Integrated Energy Engineering, Business Administration, Cultural Studies, International Relations	Centre for Energy Engg., Centre for Business Administration, Centre for International Relations, Centre Indigeneous Culture Studies	Dr. Sujit Kumar Choudhary
The Society and Social Theory	5 th Sem Five Year Integrated Energy Engineering, Business Administration, Cultural Studies, International Relations	Centre for Energy Engg., Centre for Business Administration, Centre for International Relations, Centre for Indigeneous Culture Studies	Dr. Sujit Kumar Choudhary
Fundamentals of Sociology	1 st Semester Four Year Integrated B.A.B.Ed	Centre for Education	Dr. Sujit Kumar Choudhary
Development of Educational System in India	1 st Semester Four Year Integrated B.A.B.Ed and B.Sc.B.Ed	Centre for Education	Dr. Sujit Kumar Choudhary
Economics	3 rd Sem Five Year Integrated Applied Mathematics	Centre for Applied Mathematics	Dr.Sanhita Sucharita
Money, Banking, & Public Finance	3 rd Sem Four year Integrated B.A.B.Ed	Centre for Education	Dr.Sanhita Sucharita
Statistics	2 nd Sem Integrated Life Science	Centre for Life Sciences	Dr.Sanhita Sucharita

6. Courses in collaboration with other universities, industries, foreign institutions, etc:

NA

7. Details of Programmes discontinued, if any, with reasons

NA

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

The Centre follows Semester system for its courses offered, and also offers following subjects under the Choice Based Credit System (CBCS) in the 5th Semester:

Sociology of Development, The Society and Social Theory, Mathematical Economics, Engineering Economics, Indian Economics

9. Participation of the Centre in the courses offered by other Centres

Course	Level	Centre	Teacher
Micro-Economics	1 st Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Business Mathematics	1 st Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Macro-Economics	2 nd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Statistics for Managers	2 nd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Quantitative Techniques	3 rd Sem Five Year Integrated MBA	Centre for Business Administration	Dr.Pabitra Kumar Mishra
Mathematical Economics	5 th Sem Five Year Integrated Courses	Centre for Applied Mathematics, Physics, Chemistry, Business Administration, Environmental Sciences, Nano-Technology, Water Engineering and Management	Dr.Pabitra Kumar Mishra
Principles of Economics	2 nd sem Four Year B.A.B.Ed	Centre for Education	Dr.Pabitra Kumar Mishra
Engineering Economics	6 th Semester Five Year Nano-Technology	Centre for Nano-Technology	Dr.Pabitra Kumar Mishra
Economics	3 rd Sem Five Year Integrated Applied Mathematics	Centre for Applied Mathematics	Dr.Pabitra Kumar Mishra
Indigeneous Culture and	7 th Sem Integrated Culture Studies	Centre for Indigeneous Culture Studies	Dr. Sujit Kumar Choudhary

Social Change			
Indigenous Culture and Indian Civilization	3 rd Sem Integrated Culture Studies	Centre for Indigeneous Culture Studies	Dr. Sujit Kumar Choudhary
Money, Banking, & Public Finance	3 rd Sem Four year Integrated B.A.B.Ed	Centre for Education	Dr.Sanhita Sucharita
Statistics	2 nd Sem Integrated Life Science	Centre for Life Sciences	Dr.Sanhita Sucharita
Economics	3 rd Sem Five Year Integrated Applied Mathematics	Centre for Applied Mathematics	Dr.Sanhita Sucharita

10. Number of teaching posts sanctioned and filled:

(Professors/Associate Professors/Asst. Professors)

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	Nil	Nil	Nil
Associate Professor	Nil	Nil	Nil
Assistant Professor	03	03	Nil

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr.Pabitra Kumar Mishra	M.A, M.Phil & Ph.D	Assistant Professor(Economics)	Mathematical Economics and Econometrics	12 Years	01
Dr. Sujit Kumar Choudhary	M.A, M.Phil & Ph.D	Assistant Professor(Sociology)	Sociology of Education, Sociology of Development	5 Years	01

			t, Sociology of Marginalized Groups especially tribes, Sociology of Law		
Dr.Sanhita Sucharita	M.A, M.Phil & Ph.D, Post Doc	Assistant Professor(Economics)	Public Finance, Development Economics	4 years	01

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

NA

13. Percentage of classes taken by temporary faculty: Nil

(Programme-Wise Information)

14. Programme-Wise Student Teacher Ratio:

Ph.D in Economics: 1 : 1

Ph.D in Sociology: 1 : 1

15. Number of academic support staff (technical) and administrative staff sanctioned and filled: Nil

16. Research thrust areas as recognized by major funding agencies

Developmental Economics, Financial Economics, Public Finance, Economics of Tribal and other Marginalized Sections of the Society; Sociology of Education, Sociology of Tribal and other Marginalized Sections of the Society.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: NA

(b) International Collaboration: NA

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil

(Total Grants Received)

20. Research facility / Centre with:

(a) State Recognition: Dr. Pabitra Kumar Mishra, Assistant professor (Economics) of the Centre is recognized by Government of Jharkhand for Social Impact Assessment Study under new Land Acquisition Act, 2013.

(b) National Recognition: Nil

(c) International Recognition: Dr. Pabitra Kumar Mishra, Assistant professor (Economics) of the Centre is recognized by Montréal University, Canada for doing student centric research on the impact of foreign investment flows to India

21. Special research laboratories sponsored by / created by industry or corporate bodies

NA

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
Dr.Pabitra Kumar Mishra	Please see Annexure - I
Dr.Sujit Kumar Choudhary	
Dr.Sanhita Sucharita	

23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in:

(a) National Committees: Nil

(b) International Committees: Nil

(c) Editorial Boards: Dr.Pabitra Kumar Mishra, Assistant Professor (Economics) is the (i) Life Member of Orissa Economics Association;

(ii) Editorial Advisory Board Member of Interdisciplinary Studies Journal, Finland; (iii) Editorial Board Member of International Journal of Management and Administrative Sciences.

(d) Any Other Please Specify: Nil

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

The faculty members of the centre have participated in:

Dr.Sujit Kumar Choudhary:

(i) 84th Orientation Course at the UGC-Academic Staff College, Jawaharlal Nehru University, New Delhi, from 04.03.2013 to 28.03.2013 and Scored Grade A.

(ii) Refresher Course in “Research Methodology in Social Science” at the UGC-Academic Staff College, Ranchi University, Ranchi from 10.02.2014 to 02.03.2014 and Scored Grade A.

(iii) Participated in “National Workshop on Establishing Teaching Learning Centers in Higher Education” organized by Department of Higher and Professional Education, National University of Educational Planning and Administration, November 26-29, 2013

Dr.Pabitra Kumar Mishra:

(i) Participated in 77th Orientation Programme during 10 March to 6 April 2014 at UGC – Staff Academic College at Ranchi University, Ranchi and secured Grade-A

(ii) Participated in workshop on “Workplace Communication: Strategies for Competence Building” from 22nd and 23rd December 2011, Organized by the Department of Humanities and Social Sciences, Siksha O Anusandhan University, Bhubaneswar, Odisha, India

(iii) Participated in Workshop on “Research Methodology” from 22nd to 23rd December 2010, Organized by the Department of Humanities and Social Sciences, Siksha O Anusandhan University, Bhubaneswar, Odisha, India

(iv) Participated in Workshop on “Quality Assurance in Reaccredited Institution” from 27th to 28th September 2010, Organized by Internal Quality Assurance Cell (IQAC), Vidyasagar University, Midnapore, Kolkata, India

(v) Participated in Workshop on “Swarm Intelligence: Theory and Applications” from 20th to 21st March 2010, organized by Siksha O Anusandhan University, Bhubaneswar, Odisha, India

28. Student projects:

(a) Percentage of Students who have done in-house projects including interdepartmental projects

Dr.Pabitra Kumar Mishra: Guided a 3rd year student of Five Year Integrated MBA programme in his summer internship project: Md Raza Quadir (Summer, 2014): “*A Study of Capital Market Integration in South Asia: An Empirical Analysis*”, Summer Internship Project, under the guidance of Dr.P.K.Mishra, May to July, 2014

(b) percentage of students doing projects in collaboration with other universities / industry / institute: NA

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

Dr.Sujit Kumar Choudhary:

(i) Awarded with **SHIKSHA RATTAN PURUSKAR** for Meritorious Services, Outstanding Performance and Remarkable Role in the Field of Education by India International Friendship Society at New Delhi on 20th December 2012.

(ii) Awarded with **BHARAT JYOTI AWARD** for Best Academic Foundational Work in Sociology discipline by India International Friendship Society, New Delhi on 29th August 2012.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil

31. Code of ethics for research followed by the Centre:

- a) The research work should be original.
- b) The research work should be of quality mark and value based.
- c) The research work should be innovative.
- d) The research work should be such that new process, method or product may be developed.
- e) The research work should have relevance to the society at large.

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph.D in Economics	35	01	01	NA	
Ph.D in Sociology			01		

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
Ph.D in Economics and Sociology	Nil	01	02	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): Nil

35. Student progression: Nil

Student Progression	% against enrolled
UG to PG (year wise & course wise)	
PG to M.Phil/Ph.D	
Ph.D to Post Doctoral	
Employed through campus selection	
Employed through other than campus recruitment	
Self-employed /entrepreneurs	

25. Diversity of staff:

Percentage of staff from the State	33%
Percentage of staff from other States	67%
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from other universities within the state	33%
Percentage of staff who are graduates from universities from other states	67%
Percentage of staff who are graduates from other universities outside the country	Nil

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details about infrastructural facilities:

Library	The centre has recourse to the Central Library of the University.
Internet facility for staff & students	A lease line connection is available in the centre for faculty access; and wi-fi connectivity is there for both staff and students
Total number of class rooms	The centre shares the class rooms of other centres
Class rooms with ICT facility	Nil
Student's laboratories	Nil
Research Laboratories	Nil
Others	01 office room for the centre

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) **From other institutions/universities:** 03 doctoral students

Sl. No.	Name of Students	Area of Research	University last attended
1.	Avirup Mukherjee	Economics	Pondicherry University
2.	Lisma Rout	Economics	North Orissa University
3.	Dipanjali Goswami	Sociology	Tezpur University

40. Number of students of the centre getting financial assistance from the university (2-5 per year): Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: No

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

The faculty members of the centre are in the Board of Studies of the university and are involved in constantly upgrading the syllabi according to the recent class experience and developments in the field.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Students are given freedom to suggest for up-gradations in teaching methodology, content of syllabi, etc. The provision of formal student feedback system is also in place which is administered by DR (Academics) which is discussed with the teachers.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same? NA

43. List the distinguished alumni of the centre (maximum 10): NA

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: NA

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

- (a) Use of ICT systems: Internet Access-Lectures of faculty from foreign universities available on youtube, audio-visual aids.
- (b) Conducting book review, assignment of writing review papers, analyzing data in specialized software like SPSS, EVIEWS, etc.
- (c) Student presentations
- (d) Circulation of readings in advance to facilitate effective class room discussions

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

The centre follows continuous evaluation system for students by giving assignments to students, asking them for presentation of a topic, conducting quiz test, conducting sessional examinations. The impact is monitored by faculty members and discussed at the centre level. Regular brain storming meetings are also held among faculty and students.

47. Highlight the participation of students and faculty in extension activities: Nil

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise): Nil

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: NO

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied.

The faculty members of the Centre are engaged in quality research in the fields of applied economics and sociology which enriches the extant literature.

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

(A) Strengths:

- (i) Concentration on knowledge acquisition and employment capabilities of students
- (ii) Innovative and focused approach
- (iii) Imparting inter-disciplinary learning in the university
- (iv) Team spirit of the faculty members
- (v) Individual research of faculty members

(B) Weaknesses:

- (i) No PG programme
- (ii) Inadequate number of faculty members
- (iii) Inadequate infrastructure
- (iv) Inadequate industry-link
- (v) No projects

(C) Opportunities:

- (i) To run multidisciplinary courses
- (ii) To design courses independently as per present day requirement
- (iii) To incorporate industry requirements into the syllabus
- (iv) To develop a computational laboratory
- (v) To strengthen research by organizing seminars/conferences/workshops/projects

(D) Challenges:

- (i) Increasing the number of teachers in the centre
- (ii) Incorporating community based programmes
- (iii) Launching PG programme
- (iv) To meet the innumerable deadlines
- (v) Arts course are not seen as relevant by larger public

52. Future plans of the centre:

- (i) To initiate PG programme
- (ii) To tie up with industry, etc. for research projects
- (iii) Continuous up-grading of syllabus and evaluation methods
- (iv) To set up a computational laboratory

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

DR. PABITRA KUMAR MISHRA, ASSISTANT PROFESSOR (ECONOMICS)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

- 1) Mishra, P. K. (2009): “Indian Capital Market – Revisiting Market Efficiency”, *Indian Journal of Capital Market*, Vol. 2, Issue.5, March, pp.30-34
- 2) Mishra, P. K., K. B. Das, and B. B. Pradhan, (2009): “Empirical Evidence on Indian Stock Market Efficiency in Context of the Global Financial Crisis”, *Global Journal of Finance and Management*, Vol.1, No.2, pp.149-157
- 3) Mishra, P. K. and B. B. Pradhan, (2009): “Financial Innovation and its Impact on Reserve Bank Policies”, *Indian Journal of Economics*, Vol.LXXXX, No.356, Part-I, pp.23-31
- 4) Mishra, P. K., K. B. Das, and B. B. Pradhan, (2009): “Capital Market Volatility – An Econometric Analysis”, *The Empirical Economics Letters*, Vol.8, No. 5, pp.739-746
- 5) Mishra, P. K., K. B. Das, and B. B. Pradhan, (2009): “Credit Market Development and Economic Growth in India”, *Middle Eastern Finance and Economics*, Issue.5, pp.92-106
- 6) Mishra, P. K., K. B. Das, and B. B. Pradhan, (2009): “Foreign Institutional Investment and Stock Returns in India: A Causality Test”, *Global Journal of Pure and Applied Mathematics*, Vol.5, No.2, pp. 153-162
- 7) Mishra, P. K., K. B. Das and B. B. Pradhan (2010): “Global Financial Crisis and Stock Return Volatility in India”, *Indian Journal of Finance*, Vol.4, No.6, pp.21-41
- 8) Mishra, P. K., (2010): “A GARCH Model Approach to Capital Market Volatility: The Case of India”, *Indian Journal of Economics and Business*, Vol.9, No.3, pp.631-641
- 9) Mishra, P. K., (2010): “Capital Formation and Economic Growth: Dynamics”, *SCMS Journal of Indian Management*, Vol.7, No.3, pp. 5-15

- 10) Mishra, P. K., (2010): "Dynamic Interaction among Government Consumption Expenditure and Private Consumption Expenditure in India", *GYAN Management*, Vol.4, Issue 2, pp.156-166
- 11) Mishra, P. K., K. B. Das, and B. B. Pradhan, (2010): "Foreign Institutional Investments and Real Economic Growth in India: A Causality Test", *International Research Journal of Finance and Economics*", Issue.41, pp. 215-222
- 12) Mishra, P. K., J. R. Das, and S. K. Mishra, (2010): "Dynamics of Savings and Investment Relationship in India", *European Journal of Economics, Finance, and Administrative Sciences*, Issue.18, pp.163-172
- 13) Mishra, P. K., J. R. Das, and S. K. Mishra, (2010): "Gold Price Volatility and Stock Market Returns in India", *American Journal of Scientific Research*, Issue.9, pp.47-55
- 14) Mishra, P. K., U. S. Mishra, and S. K. Mishra (2010): "Money, Price and Output: A Causality Test for India", *International Research Journal of Finance and Economics*, Issue 53, pp.26-36
- 15) Mishra, P. K., Malla, M., Mishra, S., and Pradhan, B. B. (2010): "Performance of Indian Capital Market – An Empirical Analysis", *European Journal of Economics, Finance, and Administrative Sciences*, Issue 23, pp.49-57
- 16) Mishra, P. K., Mishra, S., Malla. M., and Mishra, B. (2010): "Stationarity of Stock Return Series in Indian Capital Market", *European Journal of Scientific Research*, Vol.44, Issue.4, pp. 596-601
- 17) Mishra, P. K., (2010): "The Estimation of Relationship between Foreign Institutional Investment Flow and Economic Growth in India", *The Asian Economic Review*, Vol.52, No.3, pp.521-532
- 18) Mishra, P. K., (2011): "The Dynamics of the Relationship between Money and Income in India", *Vidwat: The Indian Journal of Management*, Vol.4, No.1, pp.3-10
- 19) Mishra, P. K., (2011): "Budgetary Deficit and Economic Growth in Developing Countries: The Case of India", *Invertis Journal of Management*, Vol.3, No.1, pp.75-87
- 20) Mishra, P. K., H. B. Rout, and S. S. Mohapatra (2011): "Causality between Tourism and Economic Growth: Empirical Evidence from India", *European Journal of Social Sciences*, Vol. 18, No.4, pp. 518-527
- 21) Mishra, P. K., U. S. Mishra, B. R. Mishra, and P. Mishra (2011): "Capital Market Efficiency and Economic Growth: The Case of India", *European Journal of Economics, Finance, and Administrative Sciences*, Issue 27, pp. 130-138

- 22) Mishra, P. K., and Pradhan, B. B., (2011): “Financial Development and Economic Growth in India: An Empirical Analysis”, *International Journal of Business and Information Technology*, Vol.1, No.1, pp.97-108
- 23) Mishra, P. K., (2011): “Weak Form Market Efficiency: Evidence from Emerging and Developed World”, *The Journal of Commerce*, Vol.3, No.2, pp.26-34
- 24) Mishra, P. K., (2011): “Dynamics of the Relationship between Mutual Funds Investment Flow and Stock Market Returns in India”, *Vision – The Journal of Business Perspective*, Vol. 15, No.1, pp.31-40
- 25) Mishra, P. K., (2011): “The Cointegration and Causality between Tax Revenue and Economic Growth in India”, *IASMS Journal of Business Spectrum*, Vol. 4, No. 2, pp.124-134
- 26) Mishra, P. K., (2011): “The Dynamics of the Relationship between Exports and Economic Growth in India”, *International Journal of Economic Sciences and Applied Research*, Vol. 4, No.2 pp.53-70
- 27) Mishra, P. K., (2011): “Savings and Investment Nexus in the Perspective of Foreign capital: The Feldstein-Horioka Paradox”, *International Journal of Finance and Policy Analysis*, Vol.3, No.2, pp.40-49
- 28) Mishra, P. K., (2011): “Savings and Investment Relationship in India: A Vector Error Correction Modelling”, *IIMS Journal of Management Science*, Vol.2, No.2 pp.142-154
- 29) Mishra, P. K., (2011): “Dynamics of the Relation between Real Consumption Expenditure and Economic Growth in India”, *Indian Journal of Economics and Business*, Vol.10, No.4, pp.553-564
- 30) Mishra, P. K., (2012): “The Nexus between Resource Mobilization by Mutual Funds and Economic Growth in India”, *Global Business Review*, Vol.13, No.1, pp.123-136
- 31) Mishra, P. K (2012): “Derivatives Trading and Stock Market Volatility: An Empirical Analysis”, *Adarsh Journal of Management Research*, Vol.5, No.1, pp.25-33
- 32) Mishra, P. K (2012): “Efficiency of South Asian Capital Markets: An Empirical Analysis”, *Pakistan Journal of Commerce and Social Science*, Vol.6, No.1, pp.27-34
- 33) Mishra, P. K (2012): “Global Financial Crises and Indian Capital Market: An Econometric Analysis”, *International Journal of Applied Business and Economic Research*, Vol.10, No.1, pp.11-29
- 34) Mishra, P. K., (2012): “The Dynamics of the Relationship between Imports and Economic Growth in India”, *South Asian Journal of Macroeconomics and Public Finance*, Vol.1, No.1, pp.57-79

- 35) Mishra, P. K., (2012): “Efficient Market Hypothesis: The Case of India’s Equity Market”, *Abhigyan Journal of Management*, Vol. 30, No.1, pp.35-43
- 36) Mishra, P. K., (2012): “Performance of Public and Private Sector Banks and Economic Growth in India: An Empirical Analysis”, *The Asian Economic Review*, Vol. 54, No.2, pp.347-366
- 37) Mishra, P.K. (Dec, 2012): Volatility of BRIC Capital Markets: An Empirical Analysis”, *Fortune Business Review*, Vol. 1, Special Issue, pp.52-61
- 38) Mishra, P. K., and H. B. Rout, (2013): “Economic Impact of Tourism: A Case Study of Jharkhand”, *International Journal of Economics and Managerial Thoughts*”, Vol.3, No.2, pp.130-139
- 39) Mishra, P. K., (2013): “India’s Dwindling Savings: Rising Concerns”, *The Global Analyst*”, Vol. 2, Issue. 4, pp.56-60
- 40) Mishra, P. K., (2013): “Has Stock Market Efficiency Improved in India? A Post-Crisis Study”, *Disseminate Knowledge – International Journal of Research in Management, science and Technology*, Vol.1, No.2, pp.45-58
- 41) Mishra, P. K., (2013): “The Dynamics of Inflation and Economic Growth in India”, *South Asian Journal of Commerce and Management*, Vol.4, No.1, pp.23-32
- 42) Mishra, P.K. (2013): “Random Walk Behaviour: Indian Equity Market”, *SCMS Journal of Management*, Vol.10, No.3, pp.55-66
- 43) Mishra, P. K., (2014): “Gold Price and Capital Market Movement in India: The Toda-Yamamoto Approach”, *Global Business Review*, Vol.15, No.1, pp.37-45

(B) Papers presented in National/International Conferences/Seminars/etc.

1. Mishra, P. K., “An Econometric Study of Ad Expenditure and Aggregate Consumption Spending in India”, in the International Conference on “The Next Leap: Exploring New Paradigms in Business” on 6 – 7 Feb 2014 at Central University of Jharkhand, Ranchi
2. Mishra, P. K., “Interest Rate Derivatives in India: Challenges and Opportunities”, in the International Conference on “Debt and Debt Derivatives” at Pondicherry University on 23 – 25 January 2014, Pondicherry, India
3. Mishra, P. K., “Capital Markets Integration: The Case of Select South Asian Markets” in the IEEE sponsored International Conference on ‘The Changing Paradigms of Technology and Strategic Management’ from 30-31 August, 2013 Organized by SASTRA University, Tamilnadu, India

4. Mishra, P. K., "Exclusion to Inclusion: An Economic Paradigm from India", in International Conference on Voices from Margin, organized by Central University of Jharkhand, Ranchi, during 20-22 Feb, 2013
5. Mishra, P. K., "Inclusive Growth: The Role of Financial Inclusion", in the International Management Convention, 2013 Organized by Asian School of Business Management, Bhubaneswar in collaboration with AMDISA during 7-9 February 2013
6. Mishra, P. K., "Financial Inclusion in India: An Evaluation from Policy Perspective", in the National Level Conference on Financial Inclusion and Inclusive Growth in India Organized by Department of A & A Economics (Centre of Advanced Studies), Utkal University, Bhubaneswar during 17-18 October 2012
7. Mishra, P. K., "Relationship between Spot and Index Futures Market in India", in the International Conference on Competitiveness & Innovativeness in Engineering, Management and Information Technology (ICCIEMI-2012), held at Pune, India, 29 January 2012
8. Mishra, P. K., "Structural Problems of US and Europe: The Problems Inherited from the Recent Global Slowdown", in the UGC sponsored National Seminar on "Debt Crisis of West – Concerns & Opportunities for India", from 21st to 22nd January 2011, Organized by Department of Economics, Ispat Autonomous College in Collaboration with Department of Humanities & Social Science, NIT, Rourkela
9. Mishra, P. K., "The Impact of Western Debt Crises on India", in the UGC sponsored National Seminar on "Debt Crisis of West – Concerns & Opportunities for India", from 21st to 22nd January 2012, Organized by Department of Economics, Ispat Autonomous College in Collaboration with Department of Humanities & Social Sciences, NIT, Rourkela
10. Mishra, P. K., "Global Financial Meltdown and Capital Market Volatility in India", in the AICTE sponsored National Seminar on "Global Economic Meltdown: Challenges for the New Age Managers" from 17th to 18th December 2010, Organized by Institute of Business and Computer Studies, Faculty of Management, Siksha O Anusandhan University, Bhubaneswar

(C) Books/Monographs/Edited Books

- 1) Mishra, P. K., S.K.Mishra (2012), *Engineering Economics and Costing*, 4th Edition, Alok Publications, Odisha, India
- 2) Mishra, P. K., (2011), *Entrepreneurship Development*, 2nd Edition, Alok Publications, Odisha, India
- 3) Mishra, P. K., (2011), *Financial Innovation, Capital Market, and Economic Growth*, Lambert Academic Publishing, 1st Edition, Germany

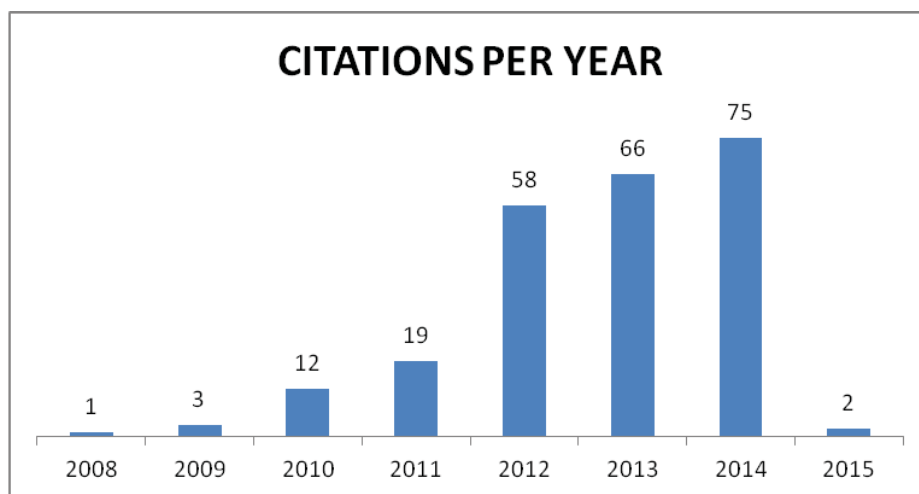
(D) Chapter(s) in Books

1. Mishra, P.K. (2014): “Role of Financial Inclusion in the Economic Growth of Odisha”, in *Financial Inclusion – Emerging Trends*, edited by Pavnesh Kumar, Himalaya Publishing House, New Delhi, pp.165-170
2. Mishra, P.K. (2014): “Role of Capital Market Development in the Economic Growth of India”, in *Contemporary Issues in Commerce and Business Management*, edited by Pavnesh Kumar, Himalaya Publishing House, New Delhi, pp.135-145
3. Mishra, P.K., and M.Mall, (2014): “An Econometric Study of Ad Expenditure and Aggregate Consumption Spending in India”, in *The Next Leap: Exploring New Paradigms in Business*, edited by T.Ghoshal, Excell India Publishers, New Delhi, pp.395-403
4. Mishra, P.K., M.Mall, and B.B.Pradhan (2010): “Global Financial Meltdown and Capital Market Volatility in India”, in *The Economic Meltdown: Challenges for the New Age Managers*, edited by B.Nayak, J.Mahapatra, and S.K.Mishra, Excell India Publishers, New Delhi, pp.10-16

(E) Impact Factor – Range and Average

Impact Factor varies in the range: 0.109 to 1.5

(F) Citation Index – Range and Average: (As per Google Scholar Citation Results)



(G) Name of important abstract/paper indexing agencies where your papers are indexed

(SCOPUS, SCI, SSCI, Web of Science, MathCiNet, EBSCO, PROQUEST, etc.)

Number of papers Listed in International Complete, Dare Database:

No. of SCOPUS Indexed Papers: 12

No. of EconLit Indexed Papers: 10

No. of EBSCO Indexed Papers: 10

No. of PROQUEST Indexed Papers: 04

No. of Indian Citation Index Papers: 02

No. of MathCiNet Indexed Papers: 01

(H) h-index / i10-index:

h - index : 09

i10 – index: 08

DR. SUJIT KUMAR CHOUDHARY, ASSISTANT PROFESSOR
(SOCIOLOGY)

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

(i) Policies and Programmes on ECCE in India: An Evaluation, *Journal of Indian Education*. February 2012, NCERT, New Delhi. ISSN: 0972-5628.

(ii) Programmes & Government Initiatives of ECCE in India, *Contemporary Discourse: A Peer Reviewed International Journal*. Volume 3, Issue 1, January 2012, Pp. 19-24. ISSN 0976-3686.

(iii) Understanding Ethnography, *Social Action*, Vol. 59, No. 2, April – June, 2009, New Delhi, Pp. 213-226. ISSN: 0037-7627.

(iv) Dalit Shiksha ka Samajshastriya Avlokan, *Pariprekshya* (in Hindi), Year 18, Issue 1, April 2011, National University of Educational Planning and Administration (NUEPA), New Delhi, Pp. 51-56. ISSN: 0972-7515.

(B) Papers presented in National/International Conferences/Seminars/etc.

Papers Presentations in International Seminars & Conferences

1. “Education & Tribal Society: A Study of Jharkhand (India)” in the *International Conference on Education, Diversity and Democracy*, organized by Department of Economics, University of Calcutta, Kolkata in Collaboration with *Comparative Education Society of India (CESI)*, December 28-30, 2013.
2. “Opportunities & Challenges of Globalization in Indian Higher Education” in the *International Conference of All India Association for Educational Research (ALAEER) on Learning Community for Global Education Reform*, organized by *Institute of Professional Studies, Gwalior (M.P.)*, November 18-20, 2011.
3. “Role of State in the Education of Tribals” in the *International Conference on Rethinking Education Policy*, organized by the Department of Sociology,

University of Hyderabad, Hyderabad in Collaboration with *Comparative Education Society of India (CESI)*, November 16 -18, 2011.

4. "Teaching-Learning Methods: Some Empirical Observations" in the *International Conference on Open and Distance Learning for Social Justice*, organized by the Aligarh Muslim University, Aligarh, March 22-24, 2011.
5. "Issues and Challenges to Right to Education: An Empirical Analysis of Tribals in Jharkhand" in the *Global Conclave of Young Scholars of Indian Education* (An International Conference), organized by the National University of Educational Planning and Administration (NUEPA), New Delhi, January 27-29, 2011.
6. "Educational Status of Tribal Girls: An Analysis of Chhattisgarh State" in the *International Seminar of the Learning Community on Innovative Practices in Education*, organized by Heeralal Yadav Balika Degree College, Lucknow (UP) in collaboration with Learning Community, June 18-19, 2011.

Papers Presentations in National Seminars & Conferences

1. "Higher Education in Jharkhand" in the Plenary Session of *Jharkhand Higher Education Conclave: Challenges, Opportunities & Road Ahead*, organized by Indian Chamber of Commerce (ICC) at Hotel BNR Chanakya, Ranchi on 6th March 2014.
2. "Status of Implementation of Provisions of RTE among Tribals in Central India" in the National Seminar on *Mainstreaming Tribals in Central India: Issues and Challenges* organized by Madhya Pradesh Institute of Social Science Research, Ujjain, March 28 & 29, 2014 (through Skype).
3. "Effectiveness of RTE on Quality of Education" in the National Seminar on *Strategies for Human Development and People's Participation: Challenges and Prospects in Rural India*, organized by Madhya Pradesh Institute of Social Science Research, Ujjain, February 12 - 13, 2014 (through Skype).
4. "Role of NGOs in Educational Development of Tribals: A Comparative Study of Two Villages of Jharkhand (India)" in the *National Seminar on Decentralized Governance and Changing Paradox of Development in Rural Areas*, organized by Centre for Human Rights & Conflict Management and Centre for International Relations, Central University of Jharkhand, Ranchi, September 11-12, 2013.
5. "Analyzing Tribal Development Programmes in Their Education: An Empirical Study of Jharkhand" in the *National Seminar on Development and Discontent in Contemporary Tribal India*, organized by M. P. Institute of Social Science Research (Ujjain), February 28-29, 2012.
6. "Role of Cooked Mid-Day Meal in the Universalization of Primary Education: A Study of Jharkhand" in the 37th All India Sociological Conference on *Sociology and the Crisis of Social Transformation in India* during *Diamond Jubilee* celebration of Indian Sociological Society at Jawaharlal Nehru University, New Delhi, December 11-13, 2011.
7. "Sarva Shiksha Abhiyan: Issues, Dimensions and Challenges" in the 36th All India Sociological Conference on *Development, Polity and Social Tensions*, organized by Ravenshaw University, Cuttack (Orissa), December 27-29, 2010.

8. “Issues And Challenges to Right to Education: An Analysis in the Light of Inclusive Policy” in the *National Seminar on Inclusive Growth and Social Tensions*, organized by Department of Economics, Andhra University, Visakhapatnam, October 6-7, 2010.
9. “Medium of Instruction in Schooling among Tribes in India” in the *National Seminar on Democratic Governance and Human Development: Stocktaking and Future Strategies*, organized by Madhya Pradesh Institute of Social Science Research, Ujjain, January 28-29, 2010.

(C) Books/Monographs/Edited Books

(i) *Education, NGOs and Social Capital: A Micro Study of Tribals*, Satyam Books, New Delhi, 2012. ISBN: 978-81-902883-8-5.

(D) Chapter(s) in Books

1. “Medium of Instruction in Schooling among Tribes in India”, in *Democratic Governance and Human Development in India*, edited by Yatindra Singh Sisodia, Rawat Publications, Jaipur & New Delhi, 2012. pp. 222-232 ISBN: 978-81-316-0559-2.
2. Social Exclusion and Elementary Education: A Case Study of STs in India, in *Exclusion and Discrimination: Concepts, Perspectives and Challenges*, edited by Y. Chinna Rao and S. Karakoti, Kanishka Publishers, New Delhi, 2010. Pp. 245-271. ISBN: 978-81-8457-224-7.
3. Educational Status of Tribal Girls, in *Social Aspects of Education* edited by D.K.Singh, APH Publishing Corporation, New Delhi, 2011. Pp. 80-96. ISBN: 978-81-313-1231-5.
4. Media Ka Dalit Upekshabhav (in Hindi) in *Media aur Dalit*, edited by Shyoraj Singh Baichen and S.S. Gautam, Gautam Book Centre, New Delhi, 2009. Pp. 63-70. ISBN: 978-81-87733-68-3.

**DR. SANHITA SUCHARITA, ASSISTANT PROFESSOR
(ECONOMICS)**

(A) Research Papers in Peer Reviewed/Indexed National/International Journals

- 1) Sethi, Narayan, Sahoo Kalpana and Sucharita Sanhita (2013) “A survey of International Financial Risk Management System” *Journal of Public Administration, Finance and Law*, Issue 4/2013
- 2) Sucharita Sanhita (2013) “Factors Affecting Female Labor Force Participation in India”, *The Romanian Economic Journal*” June 2013, Year XVI no. 48
- 3) Sucharita, Sanhita (2013) “Fiscal Consolidation in India” *Institute of Economic Growth, Delhi University Enclave, North Campus, Delhi – 110007*, working paper No.314,

- 4) Sucharita Sanhita and Sethi Narayan (2011) "Fiscal Discipline in India", Romanian Journal of Fiscal Policy, 2011-12 January to June issue, ISSN: 2069-0983
- 5) Sethi, Narayan, and Sucharita Sanhita (2010) "Impact of foreign Direct Investment on Economic Growth in India: An Empirical Investigation" journal of Social and Economic Policy, vol.7.no.2, (2010)143-160 ISSN: 0973-3426

(B) Papers presented in National/International Conferences/Seminars/etc.

1. Sucharita Sanhita, International conference on Shifting Paradigms in Applied Economics and Management: Course Correction, 1st -2nd August 2014 at School of Business, Faculty of Management, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir.
2. Sucharita Sanhita, 54th annual conference on Indian Society of labour economics, December 20-22, 2012, held at Varanasi, organized by Banaras Hindu University.
3. Sucharita Sanhita, Singapore Economic Review Conference (SERC) 2009, held at Singapore 6th to 8th August 2009.
4. Sucharita Sanhita, Development Convention 2009, organized by Council for Social Development (CSD), Hyderabad held from March 5-6,2009

(C) Books/Monographs/Edited Books

- 1) Sethi, Narayan and Sucharita Sanhita (2013) "Economic Policy, FDI and Economic Growth in India", Rawat Publication Pvt. Ltd., Jaipur, India
- 2) Sucharita, Sanhita and Sethi, Narayan (2010) "Impact of land degradation on sustainable development of agriculture: A Special Reference to India" (ISBN 978-3-639-25734-2), VDM Verlag Dr. Müller, Dudweiler Landstr. 99, Germany.
- 3) Sethi, Narayan and Sucharita, Sanhita (2010) "International Capital Flows, Financial Markets and Economic Growth: Its Impact on Indian Economy" (ISBN 978-3-639-24455-7), Publisher's Name- VDM Verlag Dr. Müller, Germany.

(D) Chapter(s) in Books

- 1) Sucharita, Sanhita (2010) "Extent Determinants and Impact of Land Degradation on Sustainable Development of Agriculture in India", Rural development in India Vol-iv page-240, Publishers & Distributors (p) Ltd' Edited by K.R Gupta.

CENTRE FOR HUMAN RIGHTS AND CONFLICT MANAGEMENT

1. Name of the Centre: Centre for Human Rights and Conflict Management

2. Year of establishment: January 2012

3. Is the Centre part of a School/Faculty of the University?

Yes. The Centre is part of School of Humanities and Social Sciences, Central University of Jharkhand.

4. Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.)

PhD & M.A.

5. Interdisciplinary Programmes/Courses and Centres involved:

Faculties of the centre are involved in teaching courses in other Centres like Centre for Indigenous and Culture Studies, Centre for Education and Centre for International Relations.

6. Courses in collaboration with other universities, industries, foreign institutions, etc.

NA

7. Details of Programmes discontinued, if any, with reasons

NA

8. Examination System: Annual/ Semester/Trimester/Choice Based Credit System:

Semester Based Credit System

9. Participation of the Centre in the courses offered by other Centres

Course/Paper Name	Level	Centre	Teacher
Humanities and Social Sciences	UG	CILS	Dr. Saurabh
Human Rights and International Relations	UG	CIR	Dr. Saurabh
Indian National Movement	UG	CE	Dr. Ashok Nimesh
Human Trafficking	UG	CICS	Dr. Ashok Nimesh
Aboriginals, Indigenous, and Tribes, Human Trafficking	UG, PG	CICS	Ms. Shilpi Hembrom

**10. Number of teaching posts sanctioned and filled:
(Professors/Associate Professors/Asst. Professors)**

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1 (SC)	nil	NA
Associate Professor	2 (UR)	1	NA
Assistant Professor	4 (2-UR/1-SC/1-OBC/1)	3(2-UR/1-SC)	NA

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Saurabh	M.A, M.Phil, Ph.D UGC-JRF in Political Science NET in South Asian Studies NET in Gandhian Thought and Peace Studies	Associate Professor	International Relations South Asian Studies Peace and Security Issues	11 years	4
Dr. Rajashree Padhi	M.A, M.Phil, Ph.D UGC-NET (Political Science)	Assistant Professor	Governance, Public Policy, Rural Development	05 years	One
Dr. Ashok Nimesh	M.A, M.Phil, Ph.D UGC-NET-JRF (Human Rights & Duties)	Assistant Professor	Human Rights & International Relations	2	nil
Ms. Shilpi Hembrom	M.A, UGC-NET (Human Rights & Duties)	Assistant Professor	Human Rights	2	nil

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:

NA

13. Percentage of classes taken by temporary faculty:

(Programme-Wise Information)

M.A.	10
Ph.D	Nil

14. Programme-Wise Student Teacher Ratio:

M.A.	1:1
Ph.D	1:2

15. Number of academic support staff (technical) and administrative staff sanctioned and filled:

Zero in the Centre.

16. Research thrust areas as recognized by major funding agencies: NA

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status	Funding Agency
Dr Rajashree Padhi	Innovation in Delivery of Mid-Day Meals Scheme: A Comparative Study of ISCKON and Akshaya Patra in India	8 Lakh	2 years 2014-16	March 2014	ICSSR, New Delhi.

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: NA

(b) International Collaboration: NA

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.:

(Total Grants Received)

Indian Council for Social Science Research, 3Lakh and Twenty Thousand

20. Research facility / Centre with:

(a) State Recognition:

(b) National Recognition

(c) International Recognition:

The Centre is trying to get in touch with MCPR/BHU, Varanasi and IDSA/ICWA/ICM Delhi for collaboration and research in future.

21. Special research laboratories sponsored by / created by industry or corporate bodies: NA

22. List of Publications in Last Five Years:

Name of Teacher	Publication(s) in Journals/Books/Edited Volume/Monograph/others
	Please see Annexure – I

23. Details of patents and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

24. Areas of consultancy and income generated: Nil

Name of teacher	Title of project	Cost	Duration	Date of sanction & Current Status

25. Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in: NA

(a) National Committees

(b) International Committees

(c) Editorial Boards

(d) Any Other Please Specify

27. Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others)

Faculties attended refresher/orientation courses, different seminar/conferences/workshops etc.

Holding seminars at university level, attending conferences, contributing academic/research based articles (empirical/theoretical) for publications,

Attending orientation and refresher courses conducted by UGC Academic Staff College of India etc.

Resource person for various seminars and workshops and continuous interaction with interdisciplinary students.

Syllabus preparation while collaborating with NHRC on Human Rights Education for University and College level

28. Student projects: Nil

(a) Percentage of Students who have done in-house projects including interdepartmental projects

(b) Percentage of students doing projects in collaboration with other universities / industry / institute

29. Awards/recognitions received at the national and international level by Faculty/Students/Scholars:

Peace Leadership Award given to Dr. Saurabh by Universal Peace Federation of India, Delhi.

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any):

- Organised a round-table on *Naxalism and Crisis of Governance* at CUJ supported by Institute of Conflict Management, New Delhi in March 2014
- Organized a Public Diplomacy Division sponsored one day Distinguish Lecture by Ambassador Rajiv Sikri, Former Secretary to Ministry of External Affairs, on topic ‘Rethinking India’s Foreign Policy’, on **9th April 2014**.
- Organized one day Peace Leadership Conference on ‘Building Nations of Peace: Our Shared Responsibility’ by Universal Peace Federation of India (UPFI), on **9th September 2014**, at Central University of Jharkhand.
- Organized a two day National Seminar “Decentralized Governance and Changing Paradox of Development in Rural Areas” on 11th and 12th September, 2013 at Central University of Jharkhand. Funded by UGC and ICSSR, New Delhi. All total 137 research papers accepted and 91 papers are presented during the seminar. Resource persons including Prof G. Haragopal, Prof Madhava Rao, Dr T. S Anurag, etc discussed with the participants as well as the students of Central University of Jharkhand on various emerging issues related to Human Rights and Human Development.
- Organized a two day guest lectures by Dr Roshmi Goswami on Gender Justice and Role of the State and Post Globalisation and Challenges to Human Rights in India on 6th and 7th February, 2013 respectively at Central University of Jharkhand.

- Organized a two day National Seminar “Decentralized Governance and Changing Paradox of Development in Rural Areas” on **11th and 12th September, 2013** at Central University of Jharkhand.
- Organized **Guest Lecture** on ‘Indigenous Conflict Situations of Norway and India in late 19th Century: A comparison of two rebellions’ by Prof. Tone Bleie, Professor in Public Polices and Cultural Understanding, University of Tromsø, Norway.

31. Code of ethics for research followed by the Centre:

- The research is aimed to have social impact in transforming human rights discrimination and conflict ridden social relation into peaceful society.
- To discover new theories and methodologies in the discourse of human rights and conflict management
- To equip the scholars with practical understanding of the subject and its various nuances so they could develop themselves as academicians of the discipline.
- To develop various tools and techniques for addressing the ongoing human rights issues and to evaluate their efficiency in application.

32. Student profile course-wise:

Name of the Course	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
M.A.	-	1	2	1	2
Ph.D	45	2	1	2	1

33. Diversity of students:

Name of the Course	% of Students from the university(CUJ)	% of Students from the State	% of Students from Other States	% of Students from other countries
M.A.	nil	75%	25%	nil
Ph.D	nil	75%	25%	nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): NIL

35. Student progression:

Student Progression	% against enrolled
UG to PG (year wise & course wise)	nil
PG to M.Phil/Ph.D	nil

Ph.D to Post Doctoral	nil
Employed through campus selection	nil
Employed through other than campus recruitment	nil
Self-employed /entrepreneurs	nil

25. Diversity of staff:

Percentage of staff from the State	nil
Percentage of staff from other States	100%
Percentage of staff from other countries	nil
Percentage of staff who are graduates of the same university	nil
Percentage of staff who are graduates from other universities within the state	nil
Percentage of staff who are graduates from universities from other states	100%
Percentage of staff who are graduates from other universities outside the country	nil

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: One faculty was awarded in 2011.

38. Present details about infrastructural facilities:

Library	Yes
Internet facility for staff & students	Yes (Wi-Fi)
Total number of class rooms	2
Class rooms with ICT facility	2
Student's laboratories	nil
Research Laboratories	nil
Others	nil

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university:

Doctoral: 3

Research Associate: 1

(b) **From other institutions/universities:** Nil

40. Number of students of the centre getting financial assistance from the university (2-5 per year):

2 (Ph.D Scholarship), one UGC-JRF

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: None

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

Yes. The Centre discusses the issues in its periodic faculty meetings which involves the students also. It creates a better teaching-learning platform.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

The Centre takes the issues raised by the students very sensitively and tries to get a solution at earliest. The students feedback is used in revision of the syllabus/conferences/seminars etc.

(c) Alumni and employers on the programmes offered and what is the response of the centre to the same?

Centre will definitely take the feedback for better academic development.

43. List the distinguished alumni of the centre (maximum 10):

Centre is only two years old.

44. Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts:

- A round-table on *Naxalism and Crisis of Governance* at CUJ supported by Institute of Conflict Management, New Delhi in March 2014
- Public Diplomacy Division supported Distinguish Lecture by Ambassador Rajiv Sikri, Former Secretary to Ministry of External Affairs, on topic 'Rethinking India's Foreign Policy', on 9th April 2014.
- Peace Leadership Conference on 'Building Nations of Peace: Our Shared Responsibility' by Universal Peace Federation of India (UPFI), on 9th September 2014, at Central University of Jharkhand.
- Guest lectures by Dr. Roshmi Goswami on Gender Justice and Role of the State and Post Globalisation and Challenges to Human Rights in India on 6th and 7th February, 2013 at Central University of Jharkhand.
- National Seminar "Decentralized Governance and Changing Paradox of Development in Rural Areas" on 11th and 12th September, 2013 at Central University of Jharkhand.

- Guest Lecture on ‘Indigenous Conflict Situations of Norway and India in late 19th Century: A comparison of two rebellions’ by Prof. Tone Bleie, Professor in Public Polices and Cultural Understanding, University of Tromsø, Norway.

45. List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:

Power Point Presentation, Exposure visit, field works, screening of movies and documentaries.

46. How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?

Centre keeps discussing the concerned issues with students as well as faculties. Presentation, paper writing, review of the literature etc. are the part of the monitoring of learning.

47. Highlight the participation of students and faculty in extension activities:

- Paper titled, “Sex Tourism: A Concern”, presented by Ms. Deepti Chatterjee at National Symposia on Human Trafficking: A Violation of Human Rights, A Universal Issue, organized by Nehru Studies Centre and the Department of Political Science, University of Rajasthan, Jaipur (Rajasthan), held from 22nd to 23rd December 2012.
- Paper titled, “Role of Technology in Human Trafficking: Challenges Ahead”, presented by Ms. Rashmi Kumari at National Symposia on Human Trafficking: A Violation of Human Rights, A Universal Issue, organized by Nehru Studies Centre and the Department of Political Science, University of Rajasthan, Jaipur (Rajasthan), held from 22nd to 23rd December 2012.
- Paper titled, “Human Trafficking: Case Study on Jharkhand”, presented by Ms. Heena Kausar at National Symposia on Human Trafficking: A Violation of Human Rights, A Universal Issue, organized by Nehru Studies Centre and the Department of Political Science, University of Rajasthan, Jaipur (Rajasthan), held from 22nd to 23rd December 2012.
- Three Students accomplished three week internship (15th December 2012 to 5th January 2013) at People Union for Civil Liberties (PUCL), Regional Head Office of Jaipur, Rajasthan.
- Seven Students accomplished three week internship (21th December 2013 to 11th January 2014) at People Union for Civil Liberties (PUCL), Regional Head Office of Jaipur, Rajasthan.
- Six Students accomplished three week internship (19th May 2014 to 21th June 2014) at People Union for Civil Liberties (PUCL), Regional Head Office of Jaipur, Rajasthan.

- Awarded 3rd prize to student Ms. Niharika Singh (MA, 3rd Semester, Centre for Human Rights and Conflict Management for essay competition, theme: 'Role of Sardar Vallabhai Patel in Nation Building' on 31st October 2014, National Unity Day organized by Central University of Jharkhand.

48. Give details of “beyond syllabus scholarly activities” of the centre: (year wise):

- Dr. Ashok Nimesh worked as a Resource Person in organising a **Capsule Training Programme for Civil Services** aspirants in Jharkhand, at Central University of Jharkhand, Ranchi from 15th April 2013 to 21st May 2013.
- Dr. Ashok Nimesh has delivered lectures in the **Training Program** organised for the local Block Panchayat members, by the Centre for PRI, Women and Child associated with the Centre for Tribal and Customary Law (TCL), School of Cultural Studies, 2014

49. State whether the programme/ centre is accredited/ graded by other agencies. Give details: No

50. Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. : NA

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:

Strength: It is one of the leading Centres in India providing masters degrees in Human Rights & Conflict Management.

Students are also able to interact with faculties working on peace and conflict studies.

Weakness: The Centre has only two classrooms, no projector for audio-video interactive classes, and no office attendant/multi-task employees to assist the faculties as well as students.

Opportunities: Students may also undertake a Diploma/Certificate in Human Rights and Conflict Management which provides entrants with specialized study.

The programme attracts students who are the peace builders of the future.

Challenges: Human rights and conflict management is the emerging area. Students are of different disciplines. At the initial level, they need more support and attention to understand the subject, and develop interest.

Conflict, peace, and human rights are usually highly politicized, debated and controversial themes, posing research difficulties, while at the same time bringing a diversity of theoretical approaches.

52. Future plans of the centre:

The Centre plans to work in areas of peace research, international conflict and foreign policy, human rights, humanitarian protection, development, good governance, environmental change and natural disasters etc.

CENTRE FOR EDUCATION

1. **Name of the Centre:** Education
2. **Year of establishment:** 2013
3. **Is the Centre part of a School/Faculty of the University?**
Part of School of Education
4. **Names of Programmes/Courses offered (UG, PG, M.Phil, PhD, Integrated Masters, Integrated PhD, etc.):** B.A. B.Ed and B.Sc. B.Ed
5. **Interdisciplinary Programmes/Courses and Centres involved:**

In an attempt to give inter-disciplinary options the centre offers the following courses:

Course	Level	Centre	Teacher
Sociology	Undergraduate	Centre for Humanities and Social Sciences	Dr. Sujit. Km. Choudhary
Economics	Undergraduate	Centre for Humanities and Social Sciences	Dr. Sanhita Sucharita
History	Undergraduate	Centre for Tribal and Customary Law	Dr. Debendra Km. Biswal
Political Science	Undergraduate	Centre for Human Rights and Conflict Management	Dr. Ashok Nimesh
Geography	Undergraduate	Centre for Land Resource Management	Dr. Kanhaiya Lal
English	Undergraduate	Centre for English Language	Dr. Rahul Chaturvedi Dr. Punyajeet Gupta Dr. Soma Das
Culture	Undergraduate	Centre for Indigenous Culture Studies	Dr. Seema Mamta Minj
Zoology	Undergraduate	Centre for Life Sciences	Dr. Abhay Singh

6. **Courses in collaboration with other universities, industries, foreign institutions, etc :** Nil
7. **Details of Programmes discontinued, if any,** with reasons: B.Sc B.Ed (PCM group) the students were allowed to shift and transfer their credits as the course yet does not have NCTE affiliation
8. **Examination System: Annual/ Semester/Trimester/Choice Based Credit System:**
Credit based Choice Based System
9. **Participation of the Centre in the courses offered by other Centres (NIL)**

10. Number of teaching posts sanctioned and filled:

Level / Position	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	Nil	
Associate Professor	3	Nil	
Assistant Professor	8	Nil	

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Students Enrolled/Guided in Last 4 years
Dr. Upasana Ray	Ph. D M.A. M.Ed (NET-JRF)	Assistant professor (on contract)	Curriculum Development, Education technology Special Education, Research Methodology	4 year (continuing)	NIL

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

Senior Visiting Fellows : 02

Junior Visiting Faculty : 01

13. Percentage of classes taken by temporary faculty: 100%

14. Programme-Wise Student Teacher Ratio:

Programme	Students	Teachers	Ratio
B. A. B. Ed	19	7	19:7
B. Sc B. Ed	2	5	2:5

15. **Number of academic support staff (technical) and administrative staff sanctioned and filled: Nil**

16. Research thrust areas as recognized by major funding agencies

Adult Education, Special Education, Curriculum development, Comparative Education, Innovative learning

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

(a) National Collaboration: Nil

(b) International Collaboration: Nil

19. Centre Level projects funded by DST-FIST; DBT, ICSSR, etc.: Nil

20. **Research facility / Centre with:**
 (a) State Recognition: Nil
 (b) National Recognition: Nil
 (c) International Recognition: Nil
21. **Special research laboratories sponsored by / created by industry or corporate bodies**
 Nil
22. **List of Publications in Last Five Years:**
 (A) **Research Papers in Peer Reviewed/Indexed National/International Journals : 03**
 (B) **Papers presented in National/International Conferences/Seminars/etc.: 14**
 (C) **Books/Monographs/Edited Books : Nil**
 (D) **Chapter(s) in Books: 03**
23. **Details of patents and income generated: Nil**
24. **Areas of consultancy and income generated: Nil**
25. **Faculty selected nationally/internationally to visit other laboratories / institutions / industries in India and abroad: Nil**
26. **Faculty serving in: Nil**
 (a) **National Committees**
 (b) **International Committees**
 (c) **Editorial Boards**
 (d) **Any Other Please Specify**
27. **Faculty Recharging Strategies: (Participation in UGC, ASC Orientation courses/Refresher courses/ Workshops/training programmes/others) : Nil**
28. **Student projects:**
 (a) **Percentage of Students who have done in-house projects including interdepartmental projects : 100**
 (b) **percentage of students doing projects in collaboration with other universities / industry / institute : Nil**
29. **Awards/recognitions received at the national and international level by Faculty/Students/Scholars: Nil**

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, (if any): Nil

31. Code of ethics for research followed by the Centre: NA

32. Student profile course-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage	
		Male	Female	Male	Female
B. A. B. Ed		3	16		
B. Sc B. Ed		0	2		

33. Diversity of students:

Name of the Course	% of Students from the same university(CUJ)	% of Students from other universities within the State	% of Students from universities outside the States	% of Students from other countries
B. A. B. Ed	Nil	90	10	Nil
B. Sc B. Ed	Nil	50	50	Nil

34. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? (Give details): Nil

35. Student progression: NA

Student Progression	% against enrolled
UG to PG (year wise & course wise)	Nil
PG to M.Phil/Ph.D	Nil
Ph.D to Post Doctoral	Nil
Employed through campus selection	Nil
Employed through other than campus recruitment	Nil
Self-employed /entrepreneurs	Nil

25. Diversity of staff:

Percentage of staff from the State	100
Percentage of staff from other States	Nil
Percentage of staff from other countries	Nil
Percentage of staff who are graduates of the same university	Nil
Percentage of staff who are graduates from	100

other universities within the state	
Percentage of staff who are graduates from universities from other states	Nil
Percentage of staff who are graduates from other universities outside the country	Nilo

37. Number of faculty who were awarded PhD., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details about infrastructural facilities:

Library	Central Library facility available
Internet facility for staff & students	Central Internet facility available
Total number of class rooms	One
Class rooms with ICT facility	One
Student's laboratories	Collaborate with other Centres
Research Laboratories	Collaborate with other Centres
Others	NA

39. List of doctoral, post-doctoral students and Research Associates

(a) From the host institution/university: Nil

(b) From other institutions/universities: Nil

40. Number of students of the centre getting financial assistance from the university (2-5 per year): Nil

41. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology: NA

42. Does the centre obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the centre utilize it?

The faculty members of the centre are in the Board of Studies of the university and are involved in constantly upgrading the syllabi according to the recent class experience and developments in the field.

(b) Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the centre to the same?

Students are given freedom to suggest for up-gradations in teaching methodology, content of syllabi, etc. The provision of formal student feedback system is also in place which is administered by DR (Academics) which is discussed with the teachers.

- (a) **Alumni and employers on the programmes offered and what is the response of the centre to the same?**

Nil

43. **List the distinguished alumni of the centre (maximum 10): Nil**
44. **Give details of student enrichment programmes (conference/special lectures/workshops/seminar) involving external experts: Nil**
45. **List the teaching methods adopted by the faculty for different programmes. Besides the classical chalk and talk methods other methodologies used by the centre are:**

- **Demonstration: Yes**
- **Heuristics : Yes**
- **Project : Based on school learning system**

46. **How does the centre ensure that programme objectives are constantly met and learning outcomes monitored?**

The examination system has the option of conducting of 3 sessional out of which 2 best are taken. The center true to its innovative output

47. **Highlight the participation of students and faculty in extension activities:**

The students have been participating

48. **Give details of “beyond syllabus scholarly activities” of the centre: (year wise):**

Special Training Program I:

49. **State whether the programme/ centre is accredited/ graded by other agencies. Give details: (NCTE affiliation in process)**

50. **Briefly highlight the contributions of the Centre in generating new knowledge, basic or applied. Nil**

51. **Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the centre:**

(A) Strengths:

(i) Highly qualified and experienced teaching personals in their respective fields.

(ii) Concentration on knowledge acquisition and employment capabilities of students

(B) Weaknesses:

(i) Limited infrastructure

(C) Opportunities:

- (i) To run multidisciplinary courses
- (ii) To design courses independently as per present day requirement

(D) Challenges:

- (i) Have to create new infrastructure

52. Future plans of the centre:

- (i) To tie up with industry & research institutions for research projects
- (ii) Continuous up-grading of syllabus and evaluation methods

ANNEXURE – I

LIST OF PUBLICATIONS OF FACULTY (Last 5 Years)

(B) Research Papers in Peer Reviewed/Indexed National/International Journals

1. 'Inclusion: Peer- group Support and Visually Challenged Students'. In Indian Journal of Educational Research, Vol I, Mar 2012. pg no: 82-90. (co-author: Prof. S. B. Bhattacharya & Surjoday Bhattacharya) ISSN: 2277-3819.
2. 'Tree worship: A way to save environment with special reference to Ancient Indian Texts' in Anusilana: Research Journal of Indian Cultural, Social and Philosophical Stream, Vol XLIII, Sept 2012. Pg no:135-140 (co-author: Dr. Seema Singh) ISSN: 0973-8762
3. 'Enriching text quality by constructivism' in Journal of Education and Development, vol 2, no 4, Dec 2012. pg no: 265 -271. (co-author: Dr. Seema Singh & Paromita Chaube) ISSN: 2248-9703

(B) Papers presented in National/International Conferences/Seminars/etc.

1. 'A Study on Concept of Constructivism, ICT Inhibitions and Uses of Computers by Teachers' in National Seminar on "Constructivism in Education", RIE, Bhopal (12th – 14th Mar, 2008).
2. 'A Reflection of Quality of Teacher Education in Nursery Teaching' in National Seminar on "Expansion of Teacher Education in India: Sustaining Quality" Alumni Association of Education, BHU in Faculty of Education, BHU (13th -14th Nov, 2011).
3. ' Quality Education and Challenges for Teacher Educator' in National Seminar on "Impact Of Education On The Development Of Socio-

Economic Status Of India With Special Reference To Jharkhand” Department of Education, The Graduate School, College for Women, Kolhan University. (21st -22nd Feb, 2012).

4. ‘Social Networking: A Domain of academic Multi-tasking’ in National Seminar on “Teacher Education: Recent Trends, Challenges and Opportunities” Faculty of Education, Jamshedpur Women’s College, Kolhan University. (24th -25th April, 2012).
5. ‘Social Networking: a platform for informal teaching’ in National Conference “Educational Technology in teaching and Learning: Prospects and Challenges” organized by Patna Women’s College and St. Xavier’s College of Education, Patna. (3rd March’2012).
6. ‘Remantling the curriculum structure for teacher education’ in National Seminar on “Secondary Education in India and RMSA” Alumni Association of Education, BHU in Faculty of Education, BHU (24th - 25th Nov, 2012).
7. ‘Adapting new technologies: the story of the Ho Adivasis of West Singhbhum’ in National Seminar on “Discourse on Tribal Identities in India: Dialogue between the past and the present” in Assam University, Diphu Campus, (12th -13th Feb,2013)
8. ‘Changing Self Concept of Urban Woman: An ICT Intervention’ in National Seminar on “Expanding Horizon of Research in Science and Technology” Faculty of Education, Jamshedpur Women’s College, Kolhan University. (12th -13th April,2013)
9. ‘Appreciating the Vision of Radhakrishnan in Post-Independent Educational Practice’ in National Seminar on ‘The Legacy of Radhakrishnan: representing India in the New Global Order’ organized by Vishwas Bharati on (5th – 6th Sept’ 2013).
10. “A Decisive Step Forward: The Case of the Savars of East Singhbhum in Annual Bordia Memorial National Policy Seminar on Education and Policy Empowerment Policies and Practices in NUEPA on 16-17 Dec’2013.
11. “Emerging aspects of folk tales into curriculum: an inclusive step forward” in National Seminar on ‘Inclusive Education: Policy Concerns and Issues’ organized by Patna Women’s College, Patna University on (7th – 8th Sept’ 2014).

International

1. ‘Technology and Social Change among the Ho Adivasis of West Singhbhum’ in International Conference on ‘Technology, Innovation and Social Change’ organized at TISS, Mumbai(22nd- 24th Jan,2013).
2. ‘Issues in Education for Disadvantaged group: A case study of the

Savar Tribe of East Singhbhum' in Second International Conference on "Education for Achieving Millennium Development Goals", Alumni Association of Education, BHU & Faculty of Education, BHU (16th -18th Nov, 2013).

3. "A tribal Journey to School: The story of Jharkhand and West Bengal." In CESI Annual International Conference on "Education, Diversity and Democracy", organized by Dept. of Economics, University of Calcutta. (28-30 Dec'2013).

(C) Books/Monographs/Edited Books

(D) Chapter(s) in Books

1. ' A doorway To school: Reflection upon mid-day meal program in Jharkhand' in Tyagi, K. (Ed) (2012) Elementary Education. New Delhi, APH Publishing House. (co-author: Dr. Surjoday Bhattacharya) ISBN: 978-93-313-1914-2. Pg no: 127-138
2. 'Adapting New Technologies: The Story of the Ho Adivasis of West Singhbhum' in Dhanaraju, V. (Ed.) (2014).Debating Tribal Identity: Past and Present, New Delhi, Dominant Publishers.
3. 'Technology and Social Change among the Ho Adivasis (Tribals) of West Singhbhum, Jharkhand, India' in Majumdar, S (Eds). (2015). Technology and Innovation for Social Change, Stuttgart, Springer.

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Ranchi
Date: 23.1.2015



Signature of the Head of
the institution with seal

Registrar
कुलसचिव

Central University of Jharkhand, Ranchi
केन्द्रीय विश्वविद्यालय, झारखण्ड, राँची



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