

# वार्षिक प्रतिवेदन Annual Report 2015-2016



knowledge to wisdom

रातू - लोहरदगा रोड, ब्राम्बे, राँची - 835205  
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कुलसचिव, झारखण्ड केन्द्रीय विश्वविद्यालय द्वारा प्रकाशित  
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झारखण्ड केन्द्रीय विश्वविद्यालय  
Central University of Jharkhand  
[www.cuj.ac.in](http://www.cuj.ac.in)

**STATUTORY OFFICERS OF THE UNIVIERSTY (As on 31.03.2016)**

**Chancellor**

- ☐ Hon'be Mr. Justice (Retd.) V.N. Khare

**Vice Chancellor**

- ☐ Prof. Nand Kumar Yadav 'Indu'

**Deans**

- ☐ Prof. S.K. Samdarshi, School of Engineering & Technology
- ☐ Prof. R.K. Dey, School of Natural Sciences
- ☐ Prof. A.C. Pandey, School of Natural Resource Management
- ☐ Dr. Dev Vrat Singh, School of MC&MT
- ☐ Dr. Shreya Bhattacharjee, School of Languages
- ☐ Dr. Sucheta Chaudhuri, School for Study of Culture
- ☐ Dr. Satish Kumar, School of Humanities and Social Sciences

**Registrar**

- ☐ Prof. R.K. Dey

**Finance Officer**

- ☐ Shri Santosh Kumar Gupta

**Controller of Examinations**

- ☐ Prof. S. Medhekar

**OFFICERS OF THE UNIVIERSTY (As on 31.03.2016)**

**Dy. Registrar**

- ☐ Dr. Kalipada Mohanta
- ☐ Shri Harish Mohan

**Internal Audit Officer**

- ☐ Shri Santosh Kuamr Gupta

**Executive Engineer**

- ☐ Er. Kuamr Pankaj Anand

**Assistant Registrar**

- ☐ Shri A Praveen Kumar

**Assistant Librarian**

- ☐ Shri S.R. Upadhayay

**Hindi Officer**

- ☐ Shri Abdul Halim

**System Analyst**

- ☐ Shri Anupam Kumar

**Medical Officer**

- ☐ Dr. I.C. Bidyasagar



**WELCOME TO  
CENTRAL UNIVERSITY OF JHARKHAND**



वार्षिक प्रतिवेदन  
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## I. CENTRAL UNIVERSITY OF JHARKHAND – AN OVERVIEW

### F. The Logo Colours:

The three colours of the logo have been chosen with reference to what the ancient Upanishads have to say on colours:

- Green: - stands for vitality and growth
- Maroon: - symbolises existence and dynamism
- Gold: - represents sacrifice and renunciation

### G. THE MOTTO: *Knowledge to Wisdom*

Students join higher education courses to gain knowledge. At CUJ, we strive hard to turn that knowledge to wisdom in order 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 it and innovations in the teaching-learning processes.



## VICE CHANCELLOR'S COMMUNIQUE



Greetings from Central University of Jharkhand!

I deem it privilege and honour to be appointed as the second Vice Chancellor of Central University of Jharkhand. Despite various constraints such as inadequacy of fund and lack of proper infrastructure, the University has managed to do fairly well in the last one year.

I am pleased to report that Central and State governments have engaged our university to be the part of Social Assessment Agency to carry out social assessment for land acquisition for various infrastructural development projects. The University has also been engaged as State Technical Agency by the Dept. of Drinking Water and Sanitation, Govt. of Jharkhand. The University has entered into an agreement with Confucius Institute Headquarters (HANBAN), China. Under this arrangement, the Confucius Institute Headquarters (HANBAN), China will assist Chinese Language Teaching at Central University of Jharkhand. The University is attracting students from across the country as students from about eighteen states have preferred to take admission in the current academic session. This reflects that our University has carved its image as a Centre of learning and at the same time has retained its all India character as envisaged in the Act. The students after acquiring education in our University have secured places in top Indian Institutions such as TIFR, Bangalore; IISC Bangalore; Delhi School of Economics; IITs, XLRI Jamshedpur and Hyderabad Central University etc. They have also proved their mettle in the arena of sports and other extra-curricular activities by winning accolades for our university in these areas. To mention few of their achievements, one of our students stood first in senior National Wushu Championship; another student secured first prize in Skit Competition in 31<sup>st</sup> East Zone Inter University Youth Festival, 2015 and another one won second prize in National Online Photography Competition.

To instill a sense of nationalism among the students and to inspire them to contribute in nation-building by becoming a responsible citizen, the university has organized various cultural programs on the occasion of birth anniversary of Sardar Vallabhbhai Patel and Swami Vivekanand.

However, the immediate challenge before us is to strengthen the present academic activities in the temporary campus and to shift to the permanent campus at the earliest which I hope to overcome with the support of all the stakeholders including Govt. of India and Govt. of Jharkhand.

Jai Hind!

(Prof. Nand Kumar Yadav 'Indu')



## I. CENTRAL UNIVERSITY OF JHARKHAND – AN OVERVIEW

The Central University of Jharkhand came into being under the Central Universities Act, 2009 on 1<sup>st</sup> of March 2009. The above Act envisages establishing and incorporating Universities for teaching and research in the various states. The Central University of Jharkhand started with a vision to specially focus on relevant present age educational drives with an emphasis on research in cutting-edge technologies

### A. A Great Starting Location:

The present campus of the University is located at Brambe, a 25 kilometer drive from Ranchi City. It is a beautiful and vibrant green campus, with its classrooms and hostels blending well with the environment.

The city of Ranchi is the educational hub of Jharkhand with many prestigious schools, colleges and institutions of higher learning like the Ranchi University, Birla Institute of Technology-Mesra, National Institute of Foundry Technology, Central Institute of Psychiatry, Birsa Agricultural University, Indian Institute of Management, National University of Law, etc. spread in and around the picturesque capital city.

### B. Permanent Campus:

The Govt. of Jharkhand has transferred 319.28 acres of land to CUJ for its permanent campus on 22.10.2011. A total of 500 acres has been earmarked for the University. The location is at Sukkurhutu – Cheri – Manatu of Kanke Block, Ranchi, and is about 10 kms from the Centre of the city. The construction work of academic, library and administrative buildings is under progress.



## I. CENTRAL UNIVERSITY OF JHARKHAND – AN OVERVIEW

### C. Objectives & Scope:

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
  - 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.

### D. The Vision:

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

### E. The Logo:

The logo occupies a very special place within the whole brand image building process of CUJ. Respect for traditions is reflected by the curved design around the circles enclosing the name of the university. The Banyan tree symbolizes learning, enlightenment and its dissemination to the ever growing youth of our nation. The two rocks represent strength of character and unswerving truthfulness. When conjoined, they stand for steadfast excellence through uprightness. “Jharkhand” means dense forest regions. The banyan tree symbolizes the inclusiveness in our humanistic approaches to social contexts of our location.







## II. BRIEF SUMMARY OF ACHIEVEMENTS

- The Center for Water Engineering and Management organised **2 days National Seminar** on **“Water for Sustainable Development”** during January 8-9, 2016 in the Central University of Jharkhand, Brambe. The seminar was sponsored by Ministry of Earth Science, Government of India and NABARD, Ranchi.
- A popular lecture of **Prof. Chintamani Mahapatra, Pro-Vice Chancellor, Jawaharlal Nehru University** was organised on **India's Foreign Policy Dynamics** on 16<sup>th</sup> April, 2015.
- The Centre for Land Resource Management organized **Youth Seminar** in collaboration with **TERI, New Delhi** held during 12-13<sup>th</sup> Jan. 2016 at CUJ, Brambe Campus.
- The University celebrated **140<sup>th</sup> Birth Anniversary of Sardar Vallabh Bhai Patel** on 18.03.2016. A host of programmes were organised on the occasion to mark the birth anniversary such Debate Poster Making, Essay writing Competition. A walk for unity and screening of documentary was also organised on the occasion.
- The University celebrated **Birth Anniversary of Swami Vivekanand** on 14<sup>th</sup> January, 2016 in which the Secretary of Ram Krishna Mission, Ranchi **Swami Bhawehsnand** delivered a lecture on the occasion. A host of programmes like screening of a dcumnetrary on Swami Vivekanand, Debate Poster presentation etc was also organised.
- **Prof. Andre** delivered a lecture In the University on Photosynthesis... on 22 November, 2015. He is visiting India on Indian Science Congress exchange programme.

### G. Outreach Activities:

“**UNNAYAN**”, an initiative of Central University of Jharkhand to serve the society, especially poor students of surroundings of the University. The aim was to provide free tuition to the students of Class – I to Class XII. It was started with few students of CUJ in the year of 2010 and now it has around 100 students who are availing the facilities.

### H. Publications:

The faculties of the University published a number of research papers in various journals including peer reviewed journals. They also contributed chapters in various edited books.



## II. BRIEF SUMMARY OF ACHIEVEMENTS

### A. Institutional Honour/Recognition:

- The University has been entrusted the responsibility of **Social Impact Assessment** Agency by the **Central as well as State Govt. of Jhrkhand** for their various infrastrcutural projctcs such as as highways, academic institutional, thermal power, railways, etc. in the state of Jharkhand.
- Centre for Water Engineering and Management continued to be empaneled as **State Technical Agency for Department of Drinking Water and Sanitation, Govt. of Jharkhand**.
- Centre for Land Resource Management continued its long term collaboration with Shri Krishna Institute of Public Administration (SKIPA), Ranchi, Govt. of Jharkhand as a **Technical Sub-committee member in National Land Records Modernization Program, Govt. of India**.
- Centre for Land Resource Management continued long term collaboration with **Department of Disaster Management, Govt. of Jharkhand as a knowledge partner in the area of Disaster Management**.

### B. Foreign Collaboration:

- A delegation of **Chines Consulate** visited University on 23th November, 2015. The Delegation met the Vice Chancellor of the University and discussed on students exchange programme and providing two native Chinese teachers to the University
- The University entered into an agreement with **Confucious Institute Headquarters (HANBAN), China**. Under this arrangement, the Confucious Institute Headquarters (HANBAN), China shall **support the Chinese Langauges Teaching** at Central University of Jharkhand.

### C. Research & Development Projects:

- “Realization of physical Frisch Grid using ion implantation in high-Z semiconductor based nuclear detector”. PI **Sandeep K. Chaudhuri** Project Duration: 3 years, Project Commencement: December 2015.
- “Synthesis, Characterization and Catalytic Activity Study of Copper Nanoparticles towards Carbon-Carbon and Carbon-Heteroatom Bond Formation” SERB project, Amount: 30 lakh, Project no: YSS/2015/001425, PI **Dr. Debjit Das, Young Scientist, DST**
- “Maintaining harmony through media Researcher” coordinated by **Prof S.K. Tewari**. The project is sponsored by IASE Deemed University, Rajasthan.
- Ministry of Environment and Forest (MoEF), GoI in principle approved a research project with financial assistance of Rs. 38,44,800/- to Prof. A.C. Pandey for the project entitled '*Implication of changing climate on flood severity in Bihar flood plains using Geoinformatics: A case study of Kosi Basin*'.
- **Dr. Purabi Saikia** (PI), Project title : Status, Distribution and Composition of Sal Forests of Ranchi, Jharkhand, East India in relation to microclimatic as well as edaphic conditions, grant of Rs.29.36 lakh sponsored by SERB, GoI under Young Scientists Scheme.
- **Dr. Sujit Kumar Choudhary** was selected for UGC-Research Award in Sociology for the Year 2016-18 on the topic entitled “Impact of Provisions of RTE on Educational Status of Tribals of Jharkhand: A Comparative Study of Eight Villages of Ranchi and Dumka Districts”.
- **Dr. Sanhita Sucharita** was sanctioned a research project entitled 'Causes and Impact of Labour Migration: A Study of Jharkhand' has been selected from ICSSR, New Delhi for duration of 2016-18.



## II. BRIEF SUMMARY OF ACHIEVEMENTS

### D. Faculty Achievements:

- **Dr. Jaya Shahi** performed in **Subah-e-Banaras**, a National level programme organized at Assi Ghat, Varanasi on 19/12/15.
- **Mrs Pragyan Puspanjali** was nominated by the Information and Public Relations Department, Government of Jharkhand, as Member of the technical committee for the selection of Communication Media and PR firm as a consultant and did the needful for the same.
- The faculties of Centre for Business Administration delivered lectures on various topics for the staff and officers of the **Coal India Limited** at **Indian Institute of Coal Management, Judicial Officers at Judicial Academy, Jharkhand**.
- **Dr. Rajkishore Mishra** conducted the **oral cancer awareness** programme among High School Students of the local community (Oct, 2015).
- **Prof Samdarshi** reviewed an **international project from Chile, South America**.
- **Shri Sudhansu Shekhar** was selected as the **Resource Person** for the **Bharatavani Project**, Under the **Digital India** Programme, Central Institute of Indian Languages, (Ministry of Human Resource Development, Department of Higher Education, Government of India) for the Jharkhand State.
- **Dr. Sujit Kumar Choudhary** was **awarded** with **Jewel of India Award** for Outstanding Achievement in the Field of Academics by *International Institute of Education and Management* at New Delhi on 6<sup>th</sup> April 2016.
- **Shri Shakir Tasnim** actively participated in the play “**Sultana Daaku**” directed by **Dr. Devendra Sharma, Associate Professor, California State University, USA**
- Dr. Satish Kumar was invited by **Border Security Force (BSF)** to deliver two days talk on **India China Relations and Security Issues**, 8-9<sup>th</sup> March, 2016.
- Dr. Rabindranath Sarma was one of the members of the tribal language expert in the New Education policy, (under CIIL), MHRD.

### E. Students' Achievements:

- Mr. Yurvraj Singh, Rohit Kumar and Mr. Rohan Jha has received **1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes respectively** in the **Second Hieun Tsang Cup, 2015** organized by **Cheena Bhavana, Visva-Bharati, Santiniketan** in association with **Consulate Office of People's Republic of China** in Kolkata.
- The 9 students of the Centre for Far East Languages (Korean) appeared in **Test of Proficiency in Korean (TOPIK)** on 26th April, 2015 and four students – Anamika Kumari, Smriti Kumari, Rajan Kumar, and Subham Kumar **passed the 1<sup>st</sup> level of TOPIK**.
- Ms. Mitali Choudhari, Mr. Abhijeet Kumar and Mr. Bablu Kumar received **1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes** respectively in **Friendship Cup-2015** which was organized by Consulate General of People Republic of China and School of Languages, Kolkata.
- Students of Centre for Mass Communication Mr. Alok Pandey, Mr. Rishabh Raj and Mr. Anshu Jaiswal won the **1<sup>st</sup> Prize** in **Skit Competition in 31<sup>st</sup> East Zone Inter University Youth Festival**, 2015 held at Tezpur University, Assam.
- Student of Centre for Mass Communication Mr. Abhay Raj got **2<sup>nd</sup> prize** in **National Online**



## II. BRIEF SUMMARY OF ACHIEVEMENTS

**Photography Ccompetition** organized by Baba Bhimrao Ambedkar University, Lucknow on the occasion of World Photography Day.

- Deepsikha Kumari, Centre for English Studies, Won **Bronze Medal** (3<sup>rd</sup> position), **WUSHU**, State level championship on 8<sup>th</sup> November, 2015.
- **Ms. Jyoti Kumari** of 5<sup>th</sup> Semester got **2<sup>nd</sup> Position** in Senior National Wushu Championship (2015) held o 27<sup>th</sup> December in Chandigarh
- **Ms. Jyoti Kumari** of 5<sup>th</sup> Semester got **1<sup>st</sup> Position** in Senior National Wushu Championship (2015) held o 27<sup>th</sup> December in Chandigarh.

### F. Lecture / Events Organised:

- The Centre for Life Science Co-organised **1<sup>st</sup> International Conferences on Human Implication of Biotechnology** (ICHIB), February 12-14, 2016 at Central University of South Bihar, Patna.
- The Centre for Indigenous Culture Studies organised one day National Seminar in collaboration with Welfare Department, Jharkhand Government on the occasion of **World Indigenous Day** on 9<sup>th</sup> August, 2015
- The Centre for Indigenous Culture Studies organised 10 days' **workshop on Research Methodology for Ph. D. Students**, 18<sup>th</sup> August to 27<sup>th</sup> August 2015.
- The Centre for Indigenous Culture Studies organised **Special Lecture on Research Methodology** and Interaction with Ph. D Research Scholar by **Prof. S.M. Pattanaik, Delhi University**, dated 20<sup>th</sup> January 2016
- **Serbian scholar Zoja Karanovic** delivered series of lecture in the Centre in 2015.
- The Centre for Tribal Folklore, Language and Literature organised Academic Seminar during **SAMVAAD 2015** in collaboration with Tata Steel Tribal Cultural Society: '**Tribes in Contemporary India: Orality, Identity and Development**'. The seminar was held from 16<sup>th</sup> to 18<sup>th</sup> November, 2016 at Jamshedpur.
- The Centre for Tribal Folklore, Language and Literature organised **National Workshop on Research Methodology in Social Sciences for Folklore Studies**, Sponsored by ICSSR, New Delhi from 1<sup>st</sup> – 10<sup>th</sup> February 2016 at CUJ Campus.
- Centre for Mass Communication organized one **special lecture on Digital India & Samras Bharat** by **Prof. Brij Kishore Kuthiala, Vice Chancellor, MakhnallalChaturvedi journalism & Mass Communication University, Bhopal** on 3<sup>rd</sup> March, 2016
- **UNICEF Jharkhand** Chief Dr. Madhulika & Communication officer Moira Dawa delivered **special lecture on child rights** on 20<sup>th</sup> November, 2015
- **Special Lecture Series** organized by School of Languages, Central University of Jharkhand on 13<sup>th</sup>, 14<sup>th</sup> and 17<sup>th</sup> Oct 2015. Some of the prominent speakers were **Professor Vyjayanti Raghavan**, Centre for Korean Studies, Jawaharlal Nehru University, New Delhi, **Professor Andrea Loseries**, Former Professor, Department of Indo-Tibetan Studies, Visva Bharati, **Professor H. P. Gangnegi**, Department of Buddhist Studies, University of Delhi, New Delhi, etc.
- The University organised a Classical Music programme of **Ustad Kamal Sabri (Saarangi Artist)** with support of SPIC MACAY on 27<sup>th</sup> January, 2016.



### III. CUJ STATUTORY BODIES

Centref or Humanities & Social Sciences

26. **Dr. Walter Beck**  
Coordinator  
Centre for Tribal & Customary Law
27. **Dr. Jaya Shahi**  
Coordinator  
Centre for performing Arts
28. **Prof. Santosh Kumar Tewari**  
Professor  
Centre for Mass Communication
29. **Prof. H P Singh, Professor**  
Centre for Water Engineering and Mangement
30. **Dean – Students' Welfare**
31. Librarian
32. Chief Proctor, CUJ
33. **Dr. Arun Kumar Padhy**  
Associate Professor,  
Centre for Applied Chemistry
34. **Dr. Biplab Kumar Kuila**  
Assistant Professor,  
Centre for Applied Chemistry
35. **Shri C Nagapavan**  
Assistant Professor,  
Centre for Business Administration
36. **Dr. Raj Bahadur Singh**  
Assistant Professor,  
Centre for Applied Chemistry
37. **Student Representative**  
7<sup>th</sup> Semester, CICS
38. **Student Representative**  
7<sup>th</sup> Semester
39. **Prof. R K Dey**  
Registrar, Central University of Jharkhand  
(Ex-officio Non-Member Secretary)



### III.CUJ STATUTORY BODIES

#### A. The Second Executive Council

1. **Prof. Nand Kumar Yadav 'Indu'**  
Vice-Chancellor,  
Central University of Jharkhand (Ex-officio Chairman)
2. **Prof. S. K. Samdarshi**  
Dean School of Engg & Tech., Central University of Jharkhand
3. **Prof. Dr. Surabhi Banerjee**  
Vice Chancellor, Central University of Orissa, Koraput
4. **Prof. Binod Kumar**  
Dept. of Statistics, Patna University, Patna
5. **Prof. L.N. Bhagat**  
Vice Chancellor, Ranchi University, Ranchi
6. **Prof. D.C. Panigrahi**  
Director, Indian School of Mines, Dhnabad
7. **Prof. R K Dey (I/c)**  
Registrar, Central University of Jharkhand.  
(Ex-officio Non-Member Secretary)





### III. CUJ STATUTORY BODIES

#### B. The Second Academic Council

1. **Prof Nand Kumar Yadav 'Indu'**  
Vice-Chancellor,  
Central University of Jharkhand (Ex-officio Chairman)
2. **Prof. Pramod Tondon**  
Former Vice Chancellor, NEHU
3. **Prof. H M Gupta**  
Dept. of Electrical Engineering, IIT Delhi
4. **Mr. Suresh Dutt Tripathi**  
Vice President, HRM, Tata Steel Co.
5. **Shri G K Pillai**  
Ex-Chairman-  
HEC Hatia, Ranchi
6. **Prof. P K Barhai**  
Vice Chancellor,  
BIT Mesra, Ranchi
7. **Shri S Srikanth**  
Director  
National Metallurgical Laboratory, Jamshedpur
8. **Prof. A.N. Misra**  
Head, Centre for Life Sciences
9. **Prof. R.K.Dey**  
Dean,  
School of Natural Sciences & Head, Centre for Applied Chemistry & Nanotechnology
10. **Prof. Sanjoy Kumar Samdarshi**  
Dean,  
School of Engineering & Technology & Head, Centre for Energy Engineering
11. **Prof. A.C. Pandey**  
Dean,  
School of Natural Resource Management & Centre for Land Resource Management
12. **Dr. Dev Vrat Singh**  
Dean,  
School of Mass Communication & Media Technologies & Head, Centre for Mass Communication



### III. CUJ STATUTORY BODIES

13. **Dr. Ashok Sarkar**  
Dean,  
School of Management Science & Head, Centre for Business Administration
14. **Dr. Shreya Bhattacharjee**  
Dean,  
School of Languages & Head Centre for English Studies
15. **Dr. Sucheta Sen Chaudhuri,**  
Dean  
School for the Study of Culture & Head, Centre for Indigenous Culture Studies
16. **Prof.S. Mechekar**  
Head, Centre for Applied Physics
17. **Dr. Manoj Kumar**  
Head, Centre for Environment Science
18. **Dr. Satish Kumar**  
Dean,  
School of Humanities & Social Sciences & Head Centre for International Relations
19. **Dr. Ajai Singh**  
Head  
Centre for Water Engg. and Management
20. **Dr. Rabindranath Sarma**  
Head  
Centre for Tribal Folklore, Language and Literature
21. **Dr. Rajesh Padhi**  
Coordinator  
for Human Rights & Conflict Management
22. **Dr. Soumen Dey**  
Coordinator  
Centre for Education
23. **Dr. Jagmohan Tanti**  
Coordinator  
Centre for Applied Mathematics
24. **Dr. Konchok Tashi**  
Coordinator  
Centre for Far East Languages (Tibetan, Korean and Chinese)
25. **Dr. Sujit Kumar Chaudhary**  
Coordinator



## V. ACADEMICS

Table A: Five Year Integrated Course (2015 -16)

State	General		OBC		ST		SC		Total
	M	F	M	F	M	F	M	F	
Jharkhand	79	53	30	22	22	13	9	5	233
Bihar	44	12	40	13			4	1	114
UP	15	8	4	3			5		35
WB	21	16	3				1		41
MP	2								2
Odisha	10	5	3	1			2		21
Rajasthan	15	1	3	1	1				21
AP	2	1							3
Hariyana	3		2						5
Punjab	3	7	1				4		15
Tamilnadu	1	2							3
Telengana	1	2	1		1		1		6
Kerala	2		1						3
Uttarakhand	1								
Total	199	107	88	40	24	13	26	6	503

Table B: Two Year Master Course (2015 -16)

State	General		OBC		ST		SC		Total
	M	F	M	F	M	F	M	F	
Jharkhand	15	12	4	2	1	2		4	40
Bihar	4	2	3	2					11
WB							1		1
Odisha	4	4		1				1	10
Assam	1								1
Kerala		1							1
Total	24	19	7	5	1	2	1	5	64

Table C: Four Year Integrated B.Ed. Course (2015 -16)

State	General		OBC		ST		SC		Total
	M	F	M	F	M	F	M	F	
Jharkhand	12	18	4	3	1	6	1	3	48
Bihar	5	9	2	2					18
Kerala			1						1
Rajasthan			1	1					2
Tamilnadu		1							1
WB	1	4			1		1	1	8
MP		1							1
Odisha	4	4					1		9
UP			1						1
Total	22	37	9	6	2	6	3	4	89



## III. CUJ STATUTORY BODIES

### C. The Second Finance Committee

- Prof Nand Kumar Yadav 'Indu'**  
Vice-Chancellor,  
Central University of Jharkhand (Ex-officio Chairman)
- Prof. Binod Kumar**  
Dept. of Statistics, Patna University, Patna
- Dr. B P Mathur,**  
Former Dy. CAG, Govt. of India
- Shri S Parabarmaiah,**  
Former Finance Officer, University of Hyderabad
- Joint Secretary and Financial Adviser, MHRD**  
or his/her nominee from Finance Bureau of MHRD not below  
the rank of Deputy Secretary
- Joint Secretary (CU&L), MHRD**  
or his/her nominee not below the rank of Joint Secretary to the Govt. of India
- Joint Secretary (CU), UGC**  
or any other Joint Secretary level officer nominated by Chairman, UGC
- Shri Santosh Kumar Gupta**  
Fincace Officer (I/c) (Ex-officio Secretary)



#### IV. ORIGINAL VISION PLAN FOR FIRST FIVE YEARS

The Schools & Centers envisioned to come up in phases at CUJ are catalogued in the Table below:

SCHOOLS & CENTRES PLANNED	PHASE
<b>1. School of Mass Communication and Media Technologies</b>	
a. Centre for Mass Communication (existing)	1
b. Centre for Media Technologies	3
<b>2. School of Management Sciences</b>	
a. Centre for Business Administration (existing)	1
b. Centre for Human Rights and Conflict Management (existing)	3
<b>3. School of Natural Sciences</b>	
a. Centre for Applied Mathematics (existing)	1
b. Centre for Applied Physics (existing)	2
c. Centre for Applied Chemistry (existing)	2
d. Centre for Life Sciences (existing)	2
<b>4. School of Languages</b>	
a. Centre for English Language (existing)	1
b. Centre for Far East Languages (existing)	3
c. Centre for Sanskrit Language	3
<b>5. School of Engineering and Technology</b>	
a. Centre for Nanotechnology (existing)	2
b. Centre for Energy Engineering(existing)	3
c. Centre for Bio-Technology	3
<b>6. School for the Study of the Culture</b>	
a. Centre for Indigenous Culture (existing)	2
b. Centre for Music and Performing Arts	3
c. Centre for Tribal Folklore, Language and Literature	3
d. Centre for Tribal and Customary Law (existing)	4
<b>7. School of Natural Resources Management</b>	
a. Centre for Bio Diversity	3
b. Centre for Water Engineering and Management (existing)	2
c. Centre for Land Resources Management (existing)	3
d. Centre for Environmental Sciences (existing)	3
<b>8. Institute of Sports</b>	
<b>9. School of Humanities &amp; Social Sciences</b>	
a. Centre for International Relations (existing)	3

Key:- 1 = 2009-2010  
2 = 2010-2011  
3 = 2011-2012  
4 = 2012-2013



#### V. ACADEMICS

The Academic Programmes of the Central University of Jharkhand started in the first week of August, 2009 at the temporary campus at Brambe, Ranchi. The planning and establishment of the programmes have been made on the basis of relevance and demand at the

- I. Regional Level.
- II. National Level and
- III. International Level

The University offers a Choice Based Credit System. The examination pattern is Semester based with a continuous evaluation system (Sessional). All the major academic programmes are five year Integrated Post-Graduate level.

As of March 2016, the University offers

- **Five Year Integrated Masters** programmes (after +2) in seventeen streams, namely, Applied Physics, Applied Chemistry, Applied Mathematics, Life Sciences, Environmental Science, English, Far East Languages (Korean, Chinese and Tibetan), Indigenous Culture Studies, Mass Communication, Business Administration, Nanotechnology, Energy Engineering and Water Engineering and Management, Geoinformatics and International Relations.
- **Three Year Bachelor Programme in Music**  
**Four/Two Year Integrated BSc. BEd/BABEd**
- **Two Year Post Graduate** Programmes in Geo-informatics.
- **PhD programmes** in Physics, Chemistry, Maths, Life Sciences, English Studies, Indigenous Culture Studies, Mass Communication and Business Administration, Nanotechnology, Water Engineering and Mangement, Energy Engineering, Land Reeoursce Mangement, Human Rights & Conflict Managemnt and Humanities & Social Sciences.
- **Free tuition** classes, by student volunteers, to students of the **neighbouring villages**, studying from classes 3 to 10.

##### Student Admission:

Admissions to the Varius Programmes have been done through a common entrance test conducted by the University which 30% weightage is also given to the +2 marks for arriving at the composite score for admission. Admissions to the various courses have been done through a common entrance test (CUCET). During the year 2015-16, **683 students from across the country (16 states) took admission** in the various courses. Out of which **159 are OBCs, 48 are SCs, 49 are STs and 427 are Generals**. Of the total admitted students, **264 are female students**. The details are given in the following tables:



**VI. SCHOOL OF MANAGEMENT SCIENCES****1. Centre for Business Administration****Mrs Pragyan Puspanjali**

- Delivered series of lectures in the General Management and specialized training of middle and senior level executives of Coal India Limited at IICM on the following dates and topics:

Sl. No.	Date	Topic	Target Group
1	15/4 2015	Communication Skills	Middle and Senior Level Executives of Coal India Ltd.
2	22/6/2015	Facets of Communication at the Workplace	Young Managers
3	4/7/2015	Leadership	Managers of CIL
4	6/7/2015	Working in Teams	Managers of CIL
5	21/7/2015	Group Dynamics	Senior officers of CIL
6	25/9/2015	Facets of Communication at the Workplace	Young Managers of CIL
7	6/10/2016	How to Conduct Effective Meetings	E6 and E7 level Executives of CIL
8	31/10/2015	Inter-personal Skill/Effectiveness	Management Trainees of CIL
9	15/1/2016	Facets of Communication	EDP for Young Managers
10	27/2/2016	Facets of Communication at the Workplace	Young Managers of CIL

- Was invited to Judicial Academy Jharkhand to deliver lectures. Details provided below:

Sl. No.	Date	Topic	Target Group
1	28/11/2015	Stress management	Judicial Officers -Civil Judges (Jr. Div.)
2	6/12/2015	Time Management	Judicial Officers -Civil Judges (Jr. Div.)

- Took a session in UGC- HRD Centre, Ranchi University, Details provided below:

Sl. No.	Date	Topic	Target Group
1	23/5/2015	Understanding Behaviour - Analysis, Prediction and Control	Participants (Faculties) of the Special Summer School

- Arranged a campus selection process of Savera Infotech on 5<sup>th</sup> February 2016 for the final year students of CUJ, at CUJ, Brambe, Ranchi
- Organized a campus selection process of ZHL limited on 20<sup>th</sup> February 2016 for the final year students of CUJ and summer interns for 4<sup>th</sup> year students of IMBA, CUJ
- Arranged a pool campus selection process of Jaro Education for the final year students of CUJ on 24<sup>th</sup> February 2016, at CUJ, Brambe, Ranchi
- Arranged a campus selection process of Care India for the final year students of CUJ on 22<sup>nd</sup> April 2016 (process confirmed on 8<sup>th</sup> March 2016), at CUJ, Brambe, Ranchi
- Arranged a paid summer internship program of HDFC bank Ltd. was organized on 28<sup>th</sup> March 2016 at BIT Mesra, Lalpur extension
- Arranged a campus selection process of Going to School on 31<sup>st</sup> March 2016 for the final year students of CUJ, at CUJ, Brambe, Ranchi

**V. ACADEMICS****Table D: Three Year Bachelor Course (2015-16)**

State	General		OBC		ST		SC		Total
	M	F	M	F	M	F	M	F	
Jharkhand	1	2							3
Bihar	2								2
Total	3	2	0	0	0	0	0	0	5

**Table E: Ph.D. Course (2015-16)**

State	General		OBC		ST		SC		Total
	M	F	M	F	M	F	M	F	
Jharkhand	2	4		1		1	1		9
Bihar	1	2		1			1		5
UP		1							1
Assam	1								1
Haryana			1						1
Kerala			1						1
Odisha		1					1		2
Telangana	1								1
J&K		1							1
Total	5	9	2	2	0	1	3	0	22

**VI. SCHOOL OF MANAGEMENT SCIENCES***1. Centre for Business Administration***A. Mission Statement:**

Our mission statement is to encourage critical thinking that leads to a deeper understanding of management and develop world leaders whose ideas and actions can change the world”.

**B. About the Centre:**

The Centre for Business Administration is presently offering a 5-Year Integrated MBA, Ph.D. programme and customized short-term executive development programmes catering the needs of both industry and academics, with a mission to encourage critical thinking, leading towards deeper understanding of management and developing leaders. The IMBA curriculum has been designed by experts considering industry expectations.

The pedagogy adopted by the Centre does not restrict students to classroom teaching only, but also allows them to enrich their learning through industrial visits, case studies, role-plays, leadership training, personality projects.

**C. Academic Programme:**

- 5 year Integrated MBA
- Ph.D Programme
- Management Development Programmes (Short term)

**D. Regular Faculty:**

- Dr. Ashoke Kumar Sarkar, Associate Professor,
- Mr. C. Nagapavan, Assistant Professor
- Mr. Mahendra Singh, Assistant Professor
- Ms. Pragyan Pushpanjali, Assistant Professor
- Dr. Nitesh Bhatia, Assistant Professor

**Contractual / Guest Faculty:**

- Ms. Neha Kaur, Assistant Professor (On Contract)
- Dr Jay Prakash Verma, Assistant Professor. (On Contract)
- Mr Vijay Kumar Sharma Assistant Professor (On Contract)
- Mr Prashant Kumar Jha, Assistant Professor (On Contract)
- Ms Pooja Shukla (Guest Faculty)
- Ms Bhabika Bhatt (Guest Faculty)

**Centre Head:** Dr. Ashoke Kumar Sarkar

**E. Activities:****Centre :**

- Arranged a campus selection process of HDFC Bank Ltd. for the final year students of IMBA from 6<sup>th</sup> to 13<sup>th</sup> January 2016, at BIT Mesra, Ranchi
- Arranged a campus selection process of Jan Lakshmi Microfinance for the final year students of IMBA from 23<sup>rd</sup> January 2016, at BIT Mesra, Ranchi

**VI. SCHOOL OF MANAGEMENT SCIENCES***1. Centre for Business Administration***Consultancy:**

- **Mrs Pragyan Puspanjali** was nominated by the Information and Public Relations Department, Government of Jharkhand, as Member of the technical committee for the selection of Communication Media and PR firm as a consultant and did the needful for the same.

**Industrial visit:**

- Industrial visit for the students of IMBA 7<sup>th</sup> & 9<sup>th</sup> Semester to Tata Motors, Jamshedpur on 28<sup>th</sup> November 2015

**Programme Organised:**

- Investment Awareness Program' for the students of IMBA at CUJ, Ranchi on 23<sup>rd</sup> -24<sup>th</sup> November 2015 as a part of the “ financial Inclusion Program” as per the mandate of the Honorable Prime Minister's Office, supported by TIKSANA Mission Trust, Mumbai.

**Faculty:****Dr. Nitesh Bhatia**

- Delivered a session on the topic 'Stress Management in Professional Life' on 06<sup>th</sup> March 2016 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Delivered one lecture on Research Methodology for Social Sciences at the National workshop on Research Methodology in Social /sciences for folklore studies, organized between 1<sup>st</sup> to 10<sup>th</sup> February 2016, organized by CTFL, CUJ, Ranchi & sponsored by ICSSR at CUJ, Ranchi.
- Delivered a lecture on the topic 'Ethics at Workplace & Public Life' on 07<sup>th</sup> February 2016 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Was organizing member for a 2 day 'Youth Seminar' on 12<sup>th</sup> -13<sup>th</sup> January 2016, organized by TERI in association with CLRM, CUJ at CUJ, Ranchi
- Delivered a lecture on the topic 'Human Resource Management' on 22<sup>nd</sup> November 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Delivered a lecture the topic 'Conflict Management' on 14<sup>th</sup> October 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Delivered a lecture on the topic 'Personality: Its significance & role' on 04<sup>th</sup> October 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi.
- Delivered a lecture on the topic 'Professional Ethics: It's a must' on 30<sup>th</sup> August 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Delivered a lecture on the topic 'Role of Personality at workplace' on 21<sup>st</sup> August 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi
- Delivered a lecture on the topic 'Personality: its significance at workplace' on 24<sup>th</sup> July 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi.
- Delivered a lecture on the topic 'Personality: its significance at workplace' on 10<sup>th</sup> July 2015 to the officers of the cadre of Civil Judges, at Jharkhand Judicial Academy, Ranchi.



## VII. SCHOOL OF NATURAL SCIENCES

### 1. Centre for Applied Mathematics

#### E. Activities:

##### Centre:

Organised weekly lecture series for students for preparation NET, GATE etc. examinations

##### Faculty:

##### Dr. Pradip Kumar Parida

- Presented a paper entitled “Different Convergence Analysis of Newton-like Methods”, in the **2<sup>nd</sup> Bi-Annual Conference of Jharkhand Society of Mathematical Sciences(JSMS)**, Ranchi College, Ranchi, India, November, 2015.
- Was Organizing secretary, **2<sup>nd</sup> Bi-Annual Conference of Jharkhand Society of Mathematical Sciences(JSMS)**, Ranchi College, Ranchi, India, November, 2015.

##### Dr. Jagmohan Tanti

- Delivered an invited talk on “A Survey to Fermat's Last Theorem” in **2<sup>nd</sup> Bi-Annual Conference of JSMS, Ranchi** (Nov. 21-23, 2015) organised by Post Graduate Department of mathematics, Ranchi College, Ranchi.
- Visited with 10 students to participate in Mathematics Honours Olympiad test scheduled on 17-01-2016 at Dept. of Math. St. Xavier's College, Ranchi.

##### Dr. Hrishikesh Mahato

- Coordinating Unnayan (An Educational Social Responsibility run by CUJ).

#### F. Student Activities:

- 10 UG students participated in Mathematics Honours Olympiad test scheduled on 17-01-2016 at Dept. of Math. St. Xavier's College, Ranchi.
- 6 PG Students participated in Indian Science Congress during first week of January 2016 in Mysore.
- Two students Ms. Soumi mondal (8<sup>th</sup> sem) and Ms. Ritika Das (4<sup>th</sup> sem) represented the University in the East Zone youth festival during last week of December 2015.

#### G. Publications:

##### In Journals:

- Himanshu Kumar and **P. K. Parida**, (2015). Solving Abel's general fuzzy linear integral equations by homotopy analysis method, International Journal of Fuzzy Computation and Modelling, 1(4)(2015)382-396.
- Shwet Nisha and **P. K. Parida**, (2015). An improved bisection Newton-like method for enclosing simple zeros of nonlinear equations, SeMA Journal, 72(2015)83-92.



## VI. SCHOOL OF MANAGEMENT SCIENCES

### 1. Centre for Business Administration

- was one of the editors on the advisory and editorial review board of “Amity Global HRM Review”, September 2015, Volume 5, ISSN 2250-060X- an International Research Journal of Amity International Business School, indexed in EBSCO and reviewed papers for the same.

#### F. Student :

- Kumar Alok, Suraj Kumar, Randhir Kumar & Mrinal Gautam of IMBA 2011-16 batch were offered final job offer as a part of campus recruitment process at HDFC Bank Limited
- Aneesha and Raghendra Pratap Singh of IMBA 2011-16 batch were offered final job offer as Block Division Managers as a part of campus recruitment process at CARE India
- Saumya Raj of IMBA 2011-16 batch were offered final job offer as a part of campus recruitment process at ZHL limited
- Vikas Kumar, Vicky Kumar, Farhan & Sagar Anand of IMBA 2011-16 batch were offered final job offer as a part of campus recruitment process at Janlakshmi Microfinance.
- Lovely, Nazia, Shilpi, Anish & Akriti of IMBA 2011-16 batch were offered final job offer as a part of campus recruitment process at Going to School (GTS) India.
- Nitish Kumar, Satish Kumar, Vikash Kumar and Komal Kachhap of IMBA 2011-16 batch were offered final job offer as a part of campus recruitment process at Savera Infotech
- Jaykant singh, Ayush Kumar & Sumant Kumar of IMBA 2012-17 batch were offered Paid summer internship program from HDFC Bank Limited.
- Rahul kumar Gupta, Vivek Mayank, Priyanak choudhary & Aparna Swatik of IMBA 2012-17 batch were offered summer internship program from ZHL Limited.

#### G. Publication:

##### In Journal:

- Nitesh Bhatia and Tanusree Dutta**, (2015). Oct-Dec, Purchase Decision:Your Nose Matters, GROWTH Journal of the Management Training Institute, SAIL, Ranchi, Vol. 43(3), 21-24.

##### Book/Chapter in a Book:

- Pragyan Puspanjali** co-authored a paper titled “Human Resource Accounting Concepts and their Applicability and Implications for Employees, Organizations, Donors and Society: A Critical Analysis” was published in an Edited book “Sustainable Development South Asian Conundrum” Edited by Mazharul M. Islam and Moazzem Hossain , IIDS Australia-IIMS India-BEN Germany.

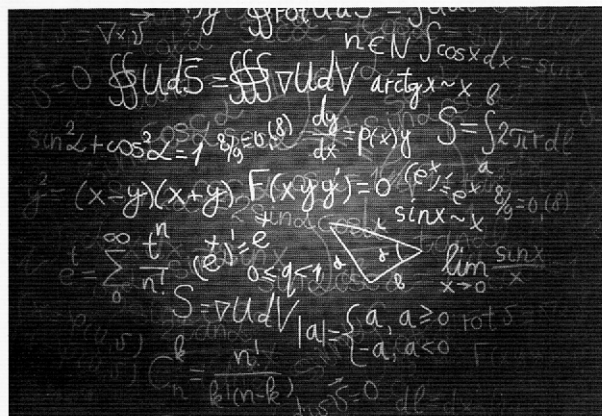




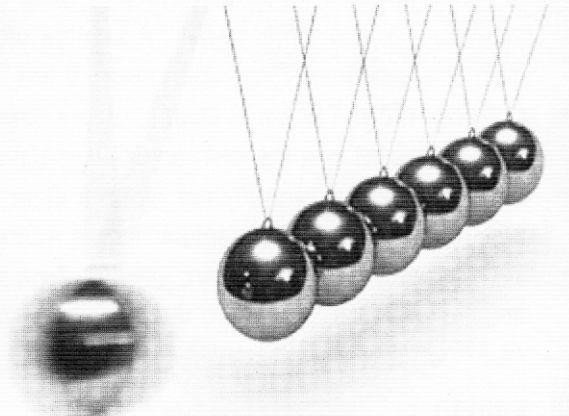
## VII. SCHOOL OF NATURAL SCIENCES

The School of Natural Sciences has four Centres viz,

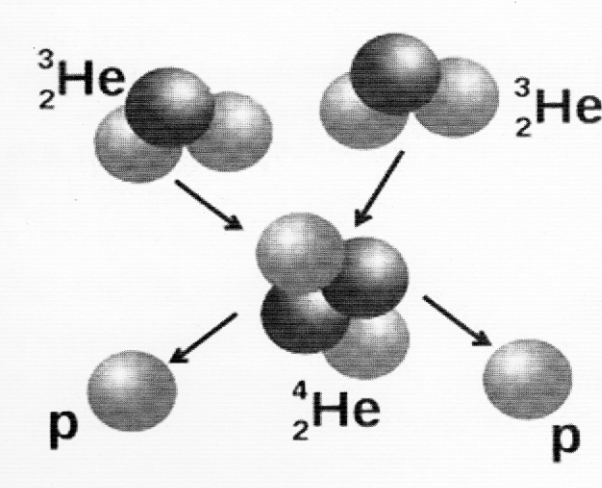
1. *Centre for Applied Mathematics*
2. *Centre for Applied Physics*
3. *Centre for Applied Chemistry*
4. *Centre for Life Sciences*



1. Centre for Applied Mathematics



2. Centre for Applied Physics



3. Centre for Applied Chemistry



4. Centre for Life Science



## VII. SCHOOL OF NATURAL SCIENCES

### 1. Centre for Applied Mathematics

#### A. Mission statement:

To advance the logical, analytical thinking and development of scientific practice with applications among the students so that they can flourish themselves in areas of Pure and Applied Mathematics, Financial mathematics, Computer Science, Scientific Computing, Statistical Methods, Information Technology and Actuarial Science etc. To produce Applied Mathematics scholars for management and operational research studies also for large corporations and leading manufacturing enterprises. The centre also committed to produce most brilliant brains in academics.

#### B. About the Centre:

The centre for Applied Mathematics was started in July 2009 under the School of Natural Sciences of Central University of Jharkhand. This Centre is first in Jharkhand to offers 5 years integrated M.Sc. programs on Applied Mathematics. It also offers PhD. program in Mathematics and allied subjects.

#### C. Academic Programmes:

- Five Year Integrated MSc. In Applied mathematics; and
- Ph.D in Applied mathematics

#### D. Regular Faculty:

- Dr. Pradip Kumar Parida, Assistant Professor
- Dr. Jagmohan Tanti, Assistant Professor
- Dr. Hrishikesh Mahato, Assistant Professor
- Dr. Jitendar Kumar, Assistant Professor

#### Contractual/ Guest Faculty:

- Prof. B.B. Bhattacharya, Guest Professor (On Contract)
- Mr. Mukul Priyadarshi, Assistant Professor (On Contract)
- Mr. Sandip Mal, Assistant Professor.
- Mr. Aditya Kumar, Guest faculty.
- Mr. Pappu Mahto, Guest faculty,
- Ms. Divya Singh, Guest faculty,
- Mr. Vijay Kumar, Guest faculty,
- Dr. Manish Kumar, Guest faculty,
- Dr. Jyoti pandey, PGuest faculty,
- Mr. Prakash Kumar Agrawal, Guest faculty,
- Mr. Rishinath Shahdev, Guest faculty,
- Mr. Dibya Ranjan Das Adhikary, Guest faculty,
- Mrs. Dipti Kumari, Guest faculty,
- Mr. O. Ansari, Guest faculty,
- Dr. Harish Pathak, Guest faculty.

**Centre Coordinator:** Dr. Jagmohan Tanti



## VII. SCHOOL OF NATURAL SCIENCES

## 2. Centre for Applied Physics

4. A. Shamlath, M. Shareef, E. Prasad, P. Sugathan, R.G. Thomas, A. Jhingan, S. Appannababu, A.K. Nasirov, A.M. Vinodkumar, K.M. Varier, C. Yadav, B.R.S. Babu, S. Nath, G. Mohanto, IshMukul, **D. Singh**, S. Kailas (2016), Fission fragment mass distribution studies in  $^{30}\text{Si} + ^{180}\text{Hf}$  reaction. Nuclear Physics A, 945 (2016) 67.
5. **D. Singh**, S. Bharti Linda, Pankaj Kumar Giri, H. Kumar, Rahbar Ali, M Afzal Ansari and N.P.M. Sathik (2015) Effect of the critical angular momentum on incomplete fusion dynamics, Journal of Nuclear Physics, Material Sciences, Radiation and Application Vol 3, No 1, August 2015 pp13-17, DOI 10.15415/jnp.2015.31003
6. H. Kumar, Rahbar Ali, **D. Singh**, Naseef M. P. N., M Afzal Ansari, K. S. Golda, S. Muralithar, Rakesh Kumar, J. J. Das, R. P. Singh and R. K. Bhowmik (2015), Influence of incomplete fusion Reaction on Complete Fusion Below 10 MeV/Nucleon Energies, Journal of Nuclear Physics, Material Sciences, Radiation and Application Vol 3, No1, August 2015 pp 47-54, DOI 10.15415/jnp.2015.31007
7. Sandip Das, **Sandeep K. Chaudhuri**, and Krishna C. Mandal, (2016), Deep Level Studies in High-Resistive Gallium Phosphide Single Crystals, ECS J. Solid State Sci. Technol., vol. 5(4), pp. 3059-3063.

*Conference Publications:*

1. Suhail A. Tali, Harish Kumar, M. Afzal Ansari, **D. Singh**, Rahbar Ali, Asif Ali, Siddharth Parashari Kamal Kumar, N. P. M. Sathik, R. Dubey, InduBala, Rakesh Kumar, R. P. Singh and S. Muralithar, (2015), Probing of Incomplete Fusion from the Measurement of Recoil Range Distributions. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 520.
2. MeV. Harish Kumar, Siddharth Parashari, M. Afzal Ansari, **D. Singh**, Rahbar Ali, Suhail A Tali, Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, InduBala, R. P. Singh, S. Muralithar and Rakesh Kumar, (2015), Linear Momentum Transfer Effect on Incomplete Fusion Process at Energy  $\sim 88$  MeV. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 474.
3. Asif Ali, Harish Kumar, M. Afzal Ansari, **D. Singh**, Rahbar Ali, Suhail A. Tali, Siddharth Parashari Kamal Kumar, N. P. M. Sathik, R. Dubey, InduBala, Rakesh Kumar, R. P. Singh and S. Muralithar (2015), Competition between Complete and Incomplete Fusion Reaction Mechanism below 8 MeV/nucleon energies., Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 554.
4. Siddharth Parashari, Harish Kumar, M. Afzal Ansari, **D. Singh**, Rahbar Ali, Suhail A Tali, Asif Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, InduBala, R. P. Singh, S. Muralithar and Rakesh Kumar, (2015), Investigation of Incomplete Fusion Dynamics from the Measurement of Angular Distributions at  $E \sim 88$  MeV. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 476.
5. **D. Singh**, Sneha Bharti Linda, Pankaj K. Giri, Smita Shree Singh, Harish Kumar, Rahbar Ali, M. Afzal Ansari, M. H. Rashid, R. Guin and S. K. Das (2015), Investigation of incomplete fusion dynamics by measurement of excitation functions in the  $^{20}\text{Ne} + ^{59}\text{Co}$  system, Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 462.
6. **D. Singh**, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Rahbar Ali, R. Tripathi, N.P. M. Sathik, R. Kumar, M. Afzal Ansari, InduBala, R. P. Singh and S. Muralithar (2015), Probing of incomplete



## VII. SCHOOL OF NATURAL SCIENCES

## 1. Centre for Applied Mathematics

3. **Jagmohan Tanti** and S. A. Katre, (2015) Euler's criterion for eleventh power non-residues, Communicated to the Journal "Finite Fields and their Applications, Elsevier, 2015".
4. Naseer Ahmed Malik and **Hrishikesh Mahato**, (2016). On Existence of Williamson Skew type Symmetric matrices, Communicated to Journal of Combinatorial Theory, Series A, Elsevier, 2016.
5. Pradip Das, Abhshek Sarkar, Sayantan Shome, Dhritiman Mukherjee, **Sandip Mal**, (2016). "Performance Enhancement of Smartphones using Fog controller through Task offloading", Accepted in AIMOC-2016, Jadavpur University.
6. Subodh Kumar, **Sandip Mal**, (2016). "Efficient Technique of Data Hiding in Boundary Points", Accepted in CICT 2016, Delhi.





## VII. SCHOOL OF NATURAL SCIENCES

## 2. Centre for Applied Physics

## A. Mission Statement:

The Centre for Applied Physics is committed to excellence in the education of its undergraduate and graduate students in core and applied physics as well as related areas, e. g., nanotechnology etc. that encompass understanding of physical concepts, the generation and dissemination of new scientific knowledge involving physical principles and their applications to related interdisciplinary fields. Its objective is to have a beneficial impact on the community and nation at large, while enhancing the quality of teaching and research at Central University of Jharkhand leading to global recognition. The Centre aims to serve the society through the provision of high value-added education in fundamental and applied research in which fundamental physical principles are used to address research issues of technological importance at the frontiers of engineering and science. The Centre aims at consultancy programmes in applied physics emphasizing academic excellence in teaching and research.

## B. About the Centre:

The center for Applied Physics was started in July 2010 under the School of Natural Sciences which offers 5 years integrated program in Applied Physics. The Centre started functioning with the following goals to provide programs of study in applied physics with a strong engineering emphasis relevant to needs of the local as well as regional/national research institutes and industries. Applied physics provides the bridge between fundamental physical concepts and their practical applications in engineering and in real life problems. The Centre has highly active and vibrant faculty members and the research interests of the faculty members cover broad range of physics, namely, Condensed Matter Physics, Lasers and Photonics, Nuclear and High Energy Physics, Theoretical and Mathematical Physics.

## C. Academic Programmes:

- Five year Integrated M.Sc. programme in Applied Physics
- Ph.D. Programme

## D. Regular Faculty:

- Dr. SarangMedhekar, Professor
- Dr. Avijit Ghosh, Assistant Professor
- Dr. Sanjay Gupta, Assistant Professor
- Dr. Dharmendra Singh, Assistant Professor
- Dr. Vineet Kumar Agotiya, Assistant Professor
- Dr. Sandeep Kumar Chaudhuri, Assistant Professor (UGC Faculty Recharge Programme)

## Contractual Faculty:

- Dr. Ashish Kumar Mishra, Assistant Professor (On contract)

**Head of the Centre:** Prof. Sarang Medhekar

## E. Research Project received:

- Realization of physical Frisch Grid using ion implantation in high-Z semiconductor based nuclear detector, to **Sandeep K. Chaudhuri** Project Duration: 3 years, Project Commencement: December 2015.



## VII. SCHOOL OF NATURAL SCIENCES

## 2. Centre for Applied Physics

## F. Activities:

## Centre:

Organized Demo show/ stage show of Physics experiments for undergraduate and Post graduate students (by Prof. Marwaha) on April 5, 2016. Importance of Hands-on activities in teaching and learning Physics concepts was explained in the show.

## Faculty:

## Dr. A. Ghosh

- Made an oral presentation of the paper entitled “Electrical and Optical Behaviors in La-modified BiFeO<sub>3</sub> Nanoceramics” authored by A. Ghosh, N. Kumar and R.N.P Choudhary in International Conference on Materials Science & Technology (ICMTech), held in University of Delhi, India 1st – 4th March, 2016.

## Dr. Dharmendra Singh

- Participated and presented a research Paper in “National Workshop on Recent Trends in Nuclear Physics” at Dept. of Physics, AMU during February 15, 2016 to February 16, 2016.)

## Dr. Sandeep K. Chaudhuri

- Attended orientation workshop on Radiation – Its applications in physical, chemical and life sciences, June 24 25, 2015, Mangalore University, Mangalore, Presented a poster titled, 'Semiconducting detector material characterization: From charge creation to collection'.
- Attended user workshop for utilisation of Pelletron Facility at IOP Bhubneswar at Institute of Physics, Bhubaneswar during 27th to 30th July'15 and presented a research proposal titled Realization of physical Frisch Grid using ion implantation in high-Z semiconductor based nuclear detector.

## G. Publications:

## In Journals:

1. A. H. Arnous, Mohammad Mirzazadeh, Seithuti Moshokoa, **SarangMedhekar**, Qin Zhou, M. F. Mahmood, Anjan Biswas, (2015), Milivoj Belic solitons in optical metamaterials with trial solution approach and backlund transform of riccati equation, , Journal of Computational and Theoretical Nanoscience Vol. 12, 5940–5948, 2015.
2. Man Mohan Gupta and **SarangMedhekar**, (2016), Three port asymmetric (three port ordered-route) light transmission in a linear, time-independent and non-magnetic structure of photonic crystals, Euro Physics Letters 113, 34004 (2016).
3. T. Patri, P. Justin, K. Prabahar and **A. Ghosh**, (2016), Raman and Dielectric Spectroscopic Analysis of Magnetic Phase Transition in Y(Fe<sub>0.5</sub>Cr<sub>0.5</sub>)O<sub>3</sub> Multiferroic Ceramics, **Ceramics International** (doi:10.1016/j.ceramint. 2016.05.188). Volume 42, Issue 12, September 2016, Pages 13834–13840.



## VII. SCHOOL OF NATURAL SCIENCES

## 4. Centre for Life Sciences

**A. Mission Statement:**

To develop open minded, sharp and cutting edge “Life Science Community” with a strong basic foundation of science, technical skills and passion, who can serve the society/country for the betterment of humanity with their knowledge, moral values and entrepreneurship.

**B. About the Centre:**

The Centre for Life Sciences was started in July 2010, under the School of Natural Sciences and offers 5 year Integrated Course in Life Sciences having an intake capacity of 40 students. To achieve our future goal for extensive interdisciplinary research by students and faculties in various areas of Biology, the Centre started admitting Ph.D. students from the academic year 2011-2012. The Ph.D. degree program includes course work for the research students.

We are committed to the vision of the Central University of Jharkhand “to create a world class facility in every aspect, be it research, teaching, administration or co-curricular activities to produce world class students ready to excel in any chosen field with honour and uprightness”. This is taking shape through the sanction of departmental **DBT BUILDER programme (Department of Biotechnology, Govt of India)** at the Centre. There are two on-going projects sanctioned by UGC and DBT.

**C. Academic Programme:**

- Five Year Integrated M.Sc. in Life Science
- PhD in Life Science

**D. Regular Faculty:**

- Prof. Dr. Amarendra Narayan Misra, Professor
- Dr. Praveen Kumar Sharma, Asst. Professor
- Dr. Rajakishore Mishra, Asst. Professor
- Dr. Anil Kumar, Asst. Professor
- Dr. Hena Firdaus, Asst. Professor

**Other Faculty:**

- Dr. Aditya Kumar Panda, DST-INSPIRE Faculty
- Dr. Pallavi Sharma, Asst. Professor (UGC-FRP)
- Dr. Biswa Ranjan Meher, Asst. Professor (DBT-BUILDER)
- Dr. V. Srivastava, Asst. Professor (DBT-BUILDER)

**UGC Woman Scientist:**

- Dr. Meena Misra, UGC Women PDF

**Research Associate (DBT)**

- Dr. Abhay Kumar Singh

**Laboratory/Technical Assistant/ Lab. Attendant**

## VII. SCHOOL OF NATURAL SCIENCES

## 2. Centre for Applied Physics

fusion dynamics by measurement of spin distribution in the  $^{19}\text{F} + ^{154}\text{Sm}$  system. . Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 464.

7. **D. Singh**, Sneha B. Linda, Pankaj K. Giri, Harish Kumar, Rahbar Ali, R. Tripathi, N.P.M. Sathik, M. Afzal Ansari, R. Kumar, InduBala, S. Muralithar and R. P. Singh (2015), Incomplete fusion dynamics in  $^{16}\text{O} + ^{154}\text{Sm}$  system by measurement of spin distribution.. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 524.
8. Pankaj K. Giri, Sneha B. Linda, **D. Singh**, S. R. Abhilash,, Harish Kumar, R. Kumar, S. Muralithar, R. P Singh and D. Kabiraj (2015), Fabrication of thin  $^{124}\text{Sn}$  target on Al-backing using vacuum evaporation technique at IUAC, New Delhi. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 984
9. Sneha B. Linda, Pankaj K. Giri, **D. Singh**, Harish Kumar, S. R. Abhilash and D. Kabiraj (2015), Fabrication of thin Al-Foils using Vacuum Evaporation Technique. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 998
10. **D. Singh**, Pankaj K. Giri, Sneha B. Linda, Harish Kumar, Rahbar Ali, R. Tripathi, N.P.M. Sathik, M. Afzal Ansari, R. Kumar, S. Muralithar and R. P. Singh (2015), Complete and Incomplete Fusion Dynamics in  $^{19}\text{F} + ^{154}\text{Sm}$  System. Proceedings of the National Workshop on Recent Trends in Nuclear Physics, during 15-16 February, 2016 AMU, Aligarh Page 83-84.
11. Siddharth Parashari, Harish Kumar, M. Afzal Ansari, Suhail A Tali1, Asif Ali, **D. Singh**, Rahbar Ali, Pankaj K. Giri, Sneha B. Linda, Rakesh Kumar, R. P. Singhand S. Muralithar (2015), Angular Distribution: A probe for incomplete fusion investigation Proceedings of the National Workshop on Recent Trends in Nuclear Physics, during 15-16 February, 2016 AMU, Aligarh Page 49-50.
12. Siddharth Parashari, **D. Singh**, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, InduBala, Rakesh Kumar, R. P. Singh and S. Muralithar (2016), Investigation of incomplete fusion dynamics below  $\sim 8$  MeV/nucleon energies. Asif Ali, Harish Kumar, M. Afzal Ansari, Suhail A. Tali1, Proceedings of the National Workshop on Recent Trends in Nuclear Physics, during 15-16 February, 2016 AMU, Aligarh Page 51-52.
13. Harish Kumar, Siddharth Parashari, Suhail A Tali, Asif Ali1, M. Afzal Ansari, **D. Singh**, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Rakesh Kumar, R. P. Singh and S. Muralithar (2016), Study of projectile break-up process at intermediate energies. Proceedings of the National Workshop on Recent Trends in Nuclear Physics, during 15-16 February, 2016 AMU, Aligarh Page 87-88.
14. Suhail A Tali, Harish Kumar, M. Afzal Ansari, Asif Ali1, Siddharth Parashari, **D. Singh**, Rahbar Ali, Kamal Kumar, N. P. M. Sathik, R. Dubey, Indubala, Rakesh Kumar, R. P. Singh and S. Muralithar (2016), An approach to understand incomplete fusion dynamics from recoil range distribution measurement. Proceedings of the National Workshop on Recent Trends in Nuclear Physics, during-16 February, 2016 AMU, Aligarh Page 47-48.





## VII. SCHOOL OF NATURAL SCIENCES

## 3. Centre for Applied Chemistry

**A. Mission Statement:**

The mission of the centre is to build a world class teaching and research infrastructure on Applied Chemistry, particularly taking care of its recent direct applications which will provide leading edge education and produce chemist, scholars and professionals with global competent for serving the mankind.

**B. About the Centre:**

The Centre for Applied Chemistry was started in July 2010 under the School of Natural Science, which offers five years integrated M.Sc. programme in Applied Chemistry. The centre is facilitating high quality laboratories with state of the art research facilities and equipments such as FTIR, Fluorescence Spectrophotometer, Ion-analyzer, etc, that will enable modern approach and solution to problems in chemistry and chemical industry. The Centre has also started Ph.D. programme to carry out research in cutting edge areas, both of basic and applied nature, on par with international standards and thereby educate and train Ph.D. students to become world class scientists.

**C. Academic Programme:**

- Five Year Integrated M.Sc. in Applied Chemistry
- Ph.D. in Applied Chemistry

**D. Regular Faculty:**

- Dr. R. K. Dey, Professor
- Dr. Arun Kumar Padhy, Associate Professor
- Dr. Soumen Dey, Assistant Professor
- Dr. Bilpab Kumar Kuila, Assistant Professor
- Dr. Raj Bahadur Singh, Assistant Professor
- Mr. Simon Watre Sangma, Assistant Professor
- Dr. Partha Ghosh, Assistant Professor (UGC-FRP)
- Dr. Sabyasachi Bhunia, Assistant Professor (UGC-FRP)

**Contractual Faculty:**

- Dr. Sadhucharan Mallick, Assistant Professor (on contract)

**Centre Head:** Professor Ratan Kumar Dey

**E. Research Project received:**

- “Synthesis, Characterization and Catalytic Activity Study of Copper Nanoparticles towards Carbon-Carbon and Carbon-Heteroatom Bond Formation” SERB project, Amount: 30 lakh, Project no: YSS/2015/001425, **Dr. Debjit Das, Young Scientist, DST.**

**F. Activities:****Faculty:****Dr. Biplab Kumar Kuila**

- Delivered an invited Talk in International Conference 'Polymer Solvent Complexes and intercalates’



## VII. SCHOOL OF NATURAL SCIENCES

## 3. Centre for Applied Chemistry

27-30 January, 2016, IACS, Kolkata.

**Mr. Simon W Sangma**

- Successfully completed Youth Parliament Programme at the University

**G. Student:**

- Four 6<sup>th</sup> semester students (Abhijit Mandal, Arijit Nandy, Sanchita Ghosh, Mohana Mukherjee) qualified JAM-2016.
- Abhijit Mandal, 6<sup>th</sup> semester student has been selected to take admission in integrated Ph.D. course at IISc, Bangalore.
- Mosim Ansari, 10<sup>th</sup> semester student has qualified GATE-2016 and got admission in IIT, Patna for Ph.D. course.
- Mr. Amit Kumar has been selected as Project Assistant in Tata steel R&N.

**H. Publications:****In Journals:**

1. Pallavi Kumari, Koomkoom Khawas, Sunit Hazra and **Biplab Kumar Kuila**, (2015), "Poly(3-hexyl thiophene)-b-Poly(N-isopropyl acrylamide): Synthesis and Its Composition Dependent Structural, Solubility, Thermoresponsive, Electrochemical, and Electronic Properties", Journal of Polymer Science, polymer Chemistry, Part A, DOI: 10.1002/pola.28040, 54, 1785–1794, Impact factor: 3.113.
2. Pallavi Kumari, Koomkoom Khawas, and **Biplab Kumar Kuila** (2016), "A supramolecular approach to Polyaniline graphene nanohybrid with three dimensional pillar structures for high performing electrochemical supercapacitor applications", Electrochimica Acta, 190 (2016) 596–604, Impact Factor: 4.504.



## VII. SCHOOL OF NATURAL SCIENCES

## 4. Centre for Life Sciences

- 200, 149–165.
4. Das BK, **Panda AK** (2015). MBL-2 polymorphisms (codon 54 and Y-221X) and low MBL levels are associated with susceptibility to multi organ dysfunction in *P. falciparum* malaria in Odisha, India. *Front Microbiol.* 31; 6: 778. doi: 10.3389/fmicb.2015.00778.
  5. Haque S, Mandal RK, Akhter N, **Panda AK**, Hussain A, Khan S, Lohani M. (2015) G894T and 4a/b polymorphisms of NOS3 gene are not associated with cancer risk: a meta-analysis. *Asian Pac J Cancer Prev.* 16(7):2929-37.
  6. Mandal RK, Akhter N, Irshad M, **Panda AK**, Ali A, Haque S. (2015). Association of the PTEN IVS4 (rs3830675) gene polymorphism with reduced risk of cancer: evidence from a meta-analysis. *Asian Pac J Cancer Prev.* 2015;16(3):897-902.
  7. Jha A, **Misra AN**, **Pallavi Sharma** (2016). Phytoremediation of Heavy Metal Contaminated Soil using Bioenergy Crops in Editors: Baudh K, Singh B & Korstad J. "Phytoremediation potential of Bioenergy plants". Springer Netherlands. (Accepted for publication)
  8. Seema Patel\* and **Meher BR**. (2016). A review on emerging frontiers of house dust mite and cockroach allergy research. *Allergologia et Immunopathologia*. (In Press)
  9. **Meher BR\***, A. Dixit, G. Bousfield, G.H. Lushington\* (2015). Glycosylation effects on FSHFSHR interaction dynamics: A case study of different FSH glycoforms by Molecular Dynamics simulations. *Plos One.* 10(9): e0137897.
  10. **Meher BR**, and Yixuan Wang (2015). Exploring the drug resistance of V32I and M46L mutant HIV-1 protease to inhibitor TMC114: Flap Dynamics and binding free energy studies. *Journal of Molecular Graphics and Modeling*, 56, 60 -73.



## VII. SCHOOL OF NATURAL SCIENCES

## 4. Centre for Life Sciences

- Mr. Jayesh Kumar
- Mr. Alok Kumar Sinha
- Mr. Bidyadhar Seth

**E. Research Project received:**

- DBT-BUILDER Project (Ongoing)
- Host INSA-CAS exchange visit

**Centre Head:** Prof. Dr. Amarendra Narayan Misra

**F. Activities:****Centre:**

Co-organised 1<sup>st</sup> International Conferences on Human Implication of Biotechnology (ICHIB), February 12-14, 2016 at Central University of South Bihar, Patna.

**Faculty****Prof. (Dr) A.N. Misra**

- Presented Keynote lecture at 1<sup>st</sup> International Conferences on Human Implication of Biotechnology (ICHIB), February 12-14, 2016 at Central University of South Bihar, Patna.
- National Advisory Board Member, ICHIB-2016

**Dr. Rajakishore Mishra**

- Served as a one of the Chairpersons at International Conference on Environmental Mutagenesis, Carcinogenesis and Health (ICEMCH-2016; Session VII) and 40th Annual Meeting of EMSI from February 17-19, 2016, Amritsar, India.
- Delivered an Invited talk entitled "Aggressiveness of tobacco mediated human oral cancer and the role of glycogen synthase kinase 3 isoforms  $\alpha/\beta$  signalling, at ICEMCH2016, February 17-19, 2016, Guru Nanak Dev University, Amritsar, India.
- Become a Life Time Member of Environmental Mutagenesis, Carcinogenesis and Health, India and participated in the 40th meeting.
- Served as External Expert, CBCS implementation, Department of Zoology, Ranchi University, Ranchi.
- Become External Examiner, in the Practical Exams. of Department of Biotech. St. Xavier's College, Ranchi.
- Conducted the oral cancer awareness programme among High School Students of the local community (Oct, 2015).
- Served as, Coordinator for Centre for Life Sciences, CUJ since 1<sup>st</sup> March 2014 to 31st July 2015.

**Dr. Hena Firdaus**



## VII. SCHOOL OF NATURAL SCIENCES

## 4. Centre for Life Sciences

- Presented a poster entitled “Role of LIM domain protein in indirect flight muscle development of *Drosophila melanogaster*.” at International conference on Human Implications of Biotechnology, Feb 12-14, 2016, Central University of South Bihar, Patna.
- Presented a poster entitled “*fliH*, a novel *cis*-regulatory mutation in troponin I coding gene leads to indirect flight muscle hypercontraction in *Drosophila*” at Biennial Indian *Drosophila* research conference, Dec 21-23, 2015, Indian institute of technology, Kanpur.

**Dr. Aditya K Panda**

- Delivered a talk entitled “Role of TNF- $\alpha$  in infectious diseases and autoimmune disorder” on 8<sup>th</sup> IRACON Odisha, Bhubaneswar, 12-13 December 2015.

**Dr. Pallavi Sharma**

- Attended and presented a poster entitled “Peroxidase entrapment in presence of compatible solute: Application in wastewater treatment” Singh R, Misra AN, Pallavi Sharma\* in 1st International Conference on Human Implications of Biotechnology” from 12th - 14th February, 2016 being organized at Patna, Bihar by Central University of Bihar.

**G. Students/ Research Scholars:**

- Md. Ekhlake Ahamed Khan** presented poster on the topic “Ameliorative effect of exogenous nitric oxide on cadmium treated pea seedling” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Kiran Kachhap** presented poster on the topic “Callus induction and growth in *Ocimum Sanctum*(L.) leaf explants” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Amit Kumar Gautam** presented poster on the topic “Aluminium stress induced seed germination, seedling growth and stress tolerance index of *Arachis hypogea* (L.)” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Satish Kumar** presented poster on the topic “Estimation of genetic diversity in wheat (*Triticum aestivum* L.) genotypes using SSR markers.” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Shovit Ranjan** presented poster entitled “Effect of Environmental chemical exposures on epigenetics of Type 2 Diabetes” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Madhavi Dubey** presented poster entitled “Role of extracellular matrix proteins in development of myotendinous junction of indirect flight muscles (IFM) in *Drosophila melanogaster*.” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup>



## VII. SCHOOL OF NATURAL SCIENCES

## 4. Centre for Life Sciences

February, 2016 at Central University of South Bihar, Patna.

- Sanjita Abhijita** presented poster entitled “Development of photosynthetic efficiency of PSII is independent of lipid peroxidation in pea seedlings grown under different light quality (Stress).” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Vikram Pal Gandhi** presented poster entitled “Screening of Microcystin degrading bacteria from different water bodies” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Kamdeo Kumar Pramanik** presented poster entitled “Activation and regulation of matrix metalloproteinase (MMP-2) induced by transcription factor snail in human oral tumor progression” in **35<sup>th</sup> Annual Convention of Indian Association for Cancer Research** held during 8<sup>th</sup> – 10<sup>th</sup> April, 2016 at The Ashok, Chanakyapuri, New Delhi.
- Manzar Alam** presented poster entitled “Regulation of Bcl-xL, Bax and P53 in human oral squamous cell carcinoma progression and chemo-resistance” in **35<sup>th</sup> Annual Convention of Indian Association for Cancer Research** held during 8<sup>th</sup> – 10<sup>th</sup> April, 2016 at The Ashok, Chanakyapuri, New Delhi.
- Tanushree** presented poster entitled “Expression of Cyclin D1 protein in human oral squamous cell carcinoma (OSCC) progression” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.
- Tanushree** presented poster entitled “Expression of Cyclin D1 protein and its regulation by glycogen synthase kinase 3 beta signaling in human oral cancer” in **35<sup>th</sup> Annual Convention of Indian Association for Cancer Research** held during 8<sup>th</sup> – 10<sup>th</sup> April, 2016 at The Ashok, Chanakyapuri, New Delhi.
- Rajani Singh** presented poster entitled “Peroxidase Entrapment in presence of compatible solute: application in waste water management” in **International Conference on Human Implication of Biotechnology** held during 12<sup>th</sup>-14<sup>th</sup> February, 2016 at Central University of South Bihar, Patna.

**H. Publications:****In Journals:**

- Josephraj S, Tanagala KKK, Jaganathan K, **Mishra R**, and Nagini S. (2016). Nimbolide, a neem limonoid inhibits Phosphatidyl Inositol-3 Kinase to activate Glycogen Synthase Kinase-3 $\beta$  in a hamster model of oral oncogenesis. **Sci. Rep.** 6: 22192; doi: 10.1038/srep22192 (2016). [Nature Publications; ISSN: 2045-2322]; Journal Impact Factor 5.228
- Ranjan S and Sharma PK (2015). Experimental Model organism in Type2 Diabetes Research: A review. **International Journal of Advanced Research**, 3: 12: 344-356
- Hena Firdaus, Jayaram Mohan, Sarwat Naz, Prabhashankar Arathi, Saraf R. Ramesh, and Upendra Nongthomba. (2015). A *cis*-regulatory mutation in Troponin-I of *Drosophila* reveals the importance of proper stoichiometry of structural proteins during muscle assembly. **Genetics**, Vol.





## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

- Presented a paper titled “Use of Mobile as a tool for political communication in Bihar Assembly Election” in a National Seminar organized by Department of Public Administration & Department of Political Science, Ranchi University, 11 – 12 December 2015.
- Organized a photo Exhibition on Television day celebrated by Centre for Mass Communication on 15<sup>th</sup> Sept, 2015
- Led a group of students of Centre for Mass Communication for Industrial tour at Radio Mantra, Ranchi on 7<sup>th</sup> Oct, 2015.
- Led a group of students of Centre for Mass Communication for Educational tour at Doordarshan Kendra, Ranchi on 25<sup>th</sup> February, 2016.
- Led a group of students of Centre for Mass Communication for industrial tour at Dainik Bhaskar Printing Press, Ranchi in February 2016

**Dr. Rajnesh Kumar Pandey**

- Delivered a special lecture as a resource person in one week workshop on writing for media organized by Centre for Mass Communication from 2<sup>nd</sup> to 6<sup>th</sup> November, 2015
- Co-Ordinated one day visit for 5<sup>th</sup> Semester Students at Birsa Hariyali, Community Radio Station run by Birsa Agriculture University, Ranchi.

**Mr. Kunal Anand**

- Delivered a lecture as resource person in one week workshop on 'Writing for Media' organised by Centre for Mass Communication

**Ms Madhurima**

- Led a group of students of Centre for Mass Communication for Educational tour at Doordarshan Kendra, Ranchi on 25<sup>th</sup> February, 2016.
- Acting as a news reader in Krishi Darshan, a programme of Doordarshan, Ranchi

**F. Research Scholar**

**Ms Nazish Hena Khan** delivered a lecture as a resource person in one week workshop on 'Writing for Media' from 2<sup>nd</sup> to 6<sup>th</sup> November 2015 organized by Centre for Mass Communication, Central University of Jharkhand.

- Ms Nazish Hena Khan** presented a paper on 'The shift towards Green Advertising in India' and received Best Oral Presentation award in National Conference on Environmental Challenges and



## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

**A. Mission Statement:**

Centre is committed to deliver excellence in media education, research and training with special focus on indigenous and regional needs. Institution endeavours to produce media professionals with social commitment. Centre also plans to be known as Centre of Excellence in the field of media research in the next coming five years

**B. About the Centre:**

Centre for Mass Communication is one among the four centers started during the inception of the university in 2009. It comes under the School of Mass Communication and Media Technologies. Centre is equipped with basic facilities of media training i.e. media labs, video cameras, still cameras etc. Whereas, Centre is in the process of establishing state-of-the-art infrastructure of Radio-television studio and Community Radio Station.

**C. Academic Programmes:**

- Five year Integrated Master Degree in Mass Communication
- Ph.D. in Mass Communication

**D. Regular Faculty:**

- Dr. S.K. Tewari, Professor
- Dr. Dev Vrat Singh, Associate Professor
- Mr. Rajesh Kumar, Assistant Professor
- Mrs. Rashmi Verma, Assistant Professor
- Mr. Sudershan Yadav, Assistant Professor
- Dr. Paramveer Singh, Assistant Professor

**Guest Faculty:**

- Dr. Rajnesh Kumar Pandey, Guest Faculty
- Dr. Rahul Amin, Guest Faculty
- Kunal Anand, Guest Faculty
- Madhurima, Guest Faculty

**Technical Staff**

- Mr. Ajaenga H.K. Pamei, Technical Assistant

**Centre Head:** Dr. Dev Vrat Singh

**E. Research Project:**

- Research project entitled “Maintaining harmony through media Researcher” coordinated by **Prof S.K. Tewari**. The project is sponsored by IASE Deemed University, Rajasthan.

**F. Activity:****Centre:**

- Students of 5<sup>th</sup> Semester visited Birsa Hariyali, Community Radio Station run by Birsa Agriculture University, Ranchi on 9<sup>th</sup> September, 2015
- Centre organized one special lecture on Public Service Broadcasting in the age of Commercialization on the occasion of National Television Day on 15<sup>th</sup> Sept, 2015. **Mrs. Rashmi**



## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

Verma coordinated the lecture.

- Centre organized one week Workshop on media writing from 2<sup>nd</sup> to 6<sup>th</sup> Nov. 2015. **Mr. Paramveer Singh** coordinated the workshop.
- UNICEF Jharkhand Chief Dr. Madhulika & Communication Officer Moira Dawa delivered special lecture on child rights on 20<sup>th</sup> November, 2015. Dr. Dev Vrat Singh coordinated the lecture.
- Centre organized two special lectures on Media Research by Prof BiplabLoha Choudhary on 12<sup>th</sup> & 13<sup>th</sup> January, 2016. **Dr. Dev Vrat Singh** coordinated the lecture.
- Centre organized one day workshop on Census data, 2011 with the collaboration of Home Ministry on 28<sup>th</sup> January, 2016. **Dr. Dev Vrat Singh** coordinated the Workshop.
- Centre organized one week Workshop on Photography from 29<sup>th</sup> January to 5<sup>th</sup> February, 2016. **Mr. Sudarshan Yadav** coordinated the workshop.
- Centre organized one day workshop on advanced photography on 22<sup>nd</sup> Feb, 2016
- Centre organized one special lecture on Digital India & Samras Bharat by Prof. Brij Kishore Kuthiala, Vice Chancellor, Makhanlal Chaturvedi journalism & Mass Communication University, Bhopal on 3<sup>rd</sup> March, 2016. **Dr. Dev Vrat Singh** coordinated the lecture.
- Centre organized one week workshop on television production with the collaboration of Saint Xavier's College, Ranchi from 13<sup>th</sup> March to 19<sup>th</sup> March, 2016. **Mr. Paramveer Singh** coordinated the workshop
- Centre organized special lecture on Documentary Production delivered by Prabal Mahto
- Centre organized special lecture on television journalism delivered by Ibrahim Sharif, Focus News, Ranchi

## Faculty:

## Professor S.K. Tewari

- Awarded UGC Emeritus Fellowship (2016-17) in the discipline of Journalism and Mass Communication
- Chaired a session on 02 April, 2015 which was on the theme: Initiative for value based media and society in All India Media Educators Conference-2015
- Presented paper on "First British Press Ombudsman: The Untold Story" at an International conference jointly organized by Global Communication Association and Mysore University at Mysore on 28 and 29 January, 2016.
- Delivered a Special Lecture at Lucknow University's Institute of Mass Communication in Science and Technology on 17 March, 2016.
- Delivered a special lecture in MHRD funded workshop at Cambridge Institute of Technology, Ranchi, for faculty members on Personality Development on 16 December, 2015.
- Delivered a special lecture in UGC-HRDC funded workshop on Teaching Methods for university and college teachers of all streams (Humanities, Commerce and Science) at Delhi University's Center for Professional Development in Higher Education on 05 March, 2016.



## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

## Dr. Dev Vrat Singh

- Presented a paper in the annual conference of Asian Congress for Media and Communication (ACMC) on the topic India, Asia and the West: Comparing Communication Reality and Perspectives, 23-24 November 2015, T.H.K. Jain College, Kolkata. Title of the Paper was *Using YouTube for Political Communication in India*
- Delivered lecture as resource person in the ICSSR sponsored 'Ten-day National Workshop on Research Methodology in Social Sciences for Folklore Studies' organized by Centre for Tribal Folklore, Language and Culture, Central University of Jharkhand from 01-10 February, 2016.
- Arranged one-day Canon workshop on Advanced Photography Skills 'Joy of Photography' in the Centre on 28<sup>th</sup> February, 2016

## Mr. Rajesh Kumar

- Delivered a lecture as Resource Person in one week Workshop on Writing for Media, organized by Centre for Mass Communication, Central University of Jharkhand, Brambe from 02 to 06 November 2015.
- Led a group of students of Centre for Mass Communication for industrial tour at Dainik Bhaskar Printing Press, Ranchi on 22<sup>nd</sup> February, 2016.
- Co-ordinated Investor Awareness Programme 2015-16 at CUJ.
- Co-ordinated School Education Tour from Bokaro to CUJ, 2015.
- Coordinated National Annual Fest 'Parakram 2016', Dhanbad from 12 to 14 February 2016; 24<sup>th</sup> National Senior Wushu Championship 2015; Chandigarh from 25 to 30 December 2015; East Zone Inter University Cricket Tournament 2015; Darbhanga from 17 to 20 December 2015; 11<sup>th</sup> Jharkhand State Wushu Championship 2015, Ranchi on 08 November 2015; CUJ Foundation Day Marathon on 01 March 2016; CUJ Trekking Expedition on 11 April 2015; National Youth Week Celebrations 2016: Commemorating Birth Anniversary of Swami Vivekananda at CUJ from 08 to 14 January 2016.

## Mrs. Rashmi Verma

- Conducted debate competition on 'Television: An Uninvited guest in our lives' on 10 Sep, 2015 for student of mass communication.

## Mr. Sudarshan Yadav

- Presented a paper titled Imtiaz Ali: The Sufi Poet of Cinema and his creation Rockstar in the National Seminar on Cinema of India: Flashback of 100 Years and Scripting for the future organized by the Department of Journalism and Mass Communication, BHU; 16-18 April 2015.

## Dr. Paramveer Singh





## IX. SCHOOL OF LANGUAGES

The School of Languages has four Centres, viz.

1. *Centre for English Studies*
2. *Centre for Far East Languages (Chinese, Tibetan & Korean)*



1. Centre for English Studies

2. Centre for Far East Languages (Chinese)

3. Centre for Far East Languages (Tibbeten)

4. Centre for Far East Languages (Korean)

## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

### 1. Centre for Mass Communication



- Solutions (NC-ECS-2015) held at CSIR-National Metallurgical Laboratory, Jamshedpur from November 5 to November 6, 2015.
- Ms Nazish Hena Khan** presented a paper on '*The Influence of Comparative Advertising on Brand Recognition*' in International Conference on Changing Paradigm of Management Practices for Sustainable Development (ICCPMPD-2016) organized by Department of Rural Management, BabasahebBhimraoAmbedkar University, Lucknow from March 5 to March 6, 2016.
- Ms Rupa Kumari** presented a paper titled Folklore and Education - 'A Study On Usage of Folklore in Education of School Students' in a National Conference organized by Rajasthan University, Jaipur, 22 – 24 April 2016
- Ms Rupa Kumari** presented a paper titled “Social Media and Indian Democracy: Challenges in the 21<sup>st</sup> century ” in a National Seminar organized by Public Administration & Dept of Political Science, Ranchi University, 11 – 12 December 2015.
- Ms Rupa Kumari** presented a paper titled “Studying the folktales from the Perspective of Communication models: A Case Study of santhali tales of Jharkhand” in a National Seminar organized by Dept of History, Ranchi University, 28 – 29 November 2015.
- Ms Rupa Kumari** presented a paper titled “Using youtube for Political Communication in India” in a National Conference organized by ACMC and T.H.K Jain College, Kolkata, 23 – 24 November 2015.
- Ms Rupa Kumari** presented a paper titled “Mobile Technology Making a Difference in Education of Remote Areas of Jharkhand” in a National Seminar organized by Dept. of Welfare, Govt. of Jharkhand and Center for Indigenous Cultural Studies, Central University of Jharkhand, 7 August 2015.
- Ms Rupa Kumari** presented a paper titled “Role of Social Media in Democratization and Pluralization of Media” in a National Conference organized by Rajasthan University, Jaipur, 2- 4 April 2015.
- Ms Rupa Kumari** acting as an anchor & script writer for the show “Santhal Diary” on Doordarshan, Ranchi.
- Ms Rupa Kumari** working as a Media Planner for “Root” a NGO working in Jharkhand.
- Ms Neha Pandey** presented Research Paper titled 'Corporate Social Responsibility Practices- Jindal Steel Power Plant in International Conference on 20-22 November, 2015 organized by Amity University, Rajasthan.
- Ms Neha Pandey** presented research paper in titled 'Role of privatized mass media in strengthening Indian Democracy: A case study with special reference to recent cases' National Seminar on 11&12th Dec 2015 organized by Dept. of Political Science and Public Administration, Ranchi University, Ranchi





## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

## Students' Activities:

- Student of 8<sup>th</sup> Semester Navneet Sitarehind won consolation prize for his short film "Jan Ker Baani" in UNESCO-CEMCA Community Radio Video Challenge-2015
- Student of 8<sup>th</sup> Semester Rohit Prakash won 1<sup>st</sup> prize in photography competition in Energia- 2015 organized by centre for Energy Engineering, CUJ
- Students of 8<sup>th</sup> Semester Rohit Prakash and Nitish Kumar won gold medal in virtual game competition in Prakram-2015 organized by Indian School of Mines, Dhanbad
- Student of 4<sup>th</sup> Semester Udit Pal got 1<sup>st</sup> position in debate competition on television day celebration in CUJ, Ranchi
- Student of 4<sup>th</sup> Semester Udit Pal got 2<sup>nd</sup> position creative writing competition organized by Central University of Jharkhand, Ranchi
- Student of 4<sup>th</sup> Semester Parvez Alam got 2<sup>nd</sup> prize in group song in spring Fest held at IIT Kharagpur
- Student of 4<sup>th</sup> Semester Parvez Alam 3<sup>rd</sup> prize in group song in Techfest at NIFFT, Ranchi
- Student of 4<sup>th</sup> Semester Ankita Kumari won 1<sup>st</sup> prize in group dance held at NIFFT, Ranchi.
- Student of Centre Alok Pandey, Rishabh Raj, Anshu Jaiswal won the 1<sup>st</sup> Prize in Skit Competition in 31<sup>st</sup> East zone inter university youth festival, 2015 held at Tezpur University, Assam
- Student of 4<sup>th</sup> Semester Rishabh Raj won the laughter challenge in Techfest held at NIFT Ranchi fest 2016,
- Student of Centre Alok Kumar Pandey, Rishabh Raj, Anshu Jaiswal represented the East Zone for skit competition at national youth festival 2016, Mysore university, Mysore
- Student of 4<sup>th</sup> Semester Rishabh Raj got selection for Jharkhand state electricity board cricket team.
- Student of 4<sup>th</sup> Semester Abhay Raj got 2<sup>nd</sup> prize in National online photography competition organized by Baba Bhimrao Ambedkar University, Lucknow on the occasion of World Photography Day.

## G. Publications:

## In Journals:

- **S K Tewari** (2016). How to be writer (Communication Today, Jaipur, January-March 2016, Vol. 18, No. 1) ISSN 0975-217X.
- **S K Tewari** (2015). News media need a new business model (Communication Today, Jaipur, October-December 2015, Vol. 17, No. 4) ISSN 0975-217X.
- **S K Tewari** (2015). S.R. Nigam: A Pioneer Media Educator in the Himalayan Region (Communication Today, Jaipur, July-September 2015, Vol. 17, No. 3) ISSN 0975-217X.
- **S K Tewari** (2015). Ek Shikshak ki drishti men Guru Purnima (Panchjanya, New Delhi 20 April 2015 Vol. 68 No. 47) p.36.
- **S K Tewari** (2015). Vinod Mehta: The Readers' Editor (Communication Today, Jaipur, January-June 2015, Vol. 17, No. 1 and 2) ISSN 0975-217X.



## VIII. SCHOOL OF MASS COMMUNICATION AND MEDIA TECHNOLOGIES

## 1. Centre for Mass Communication

- **Dev Vrat Singh** (2015). *Socializing Online: Case Study of Media Educators a Facebook group of media professors in India*, Journal of Advanced Research in Journalism and Mass Communication, 2015, Volume 2, Number 1, p. 6-16 (ISSN 2395-3810)
- **Dev Vrat Singh** (2015). *Colour Bias in Visual Media – An Unfair Obsession for Lighter Skin in India*, Mass Media (ISSN 2277-7369), Volume -4, Number -39, June 2015, Publisher- Media Studies Group, Delhi
- **Dev Vrat Singh** (2015). भारत में मीडिया शोध – एक आलोचनात्मक समीक्षा, जनमीडिया (ISSN 2277-2847), Volume -4, Number -40, July 2015, Publisher- Media Studies Group, Delhi
- **Dev Vrat Singh** (2015). विजुअल मीडिया में हरियाणा की छवि का विश्लेषण, जनमीडिया (ISSN 2277-2847), Volume -4, Number -46, January 2016, Publisher- Media Studies Group, Delhi
- **Rajesh Kumar** (2015). Media Education Policy in India: A Historical Perspective, Mass Media-Journal of Media Studies Group, New Delhi, (ISSN-2277-7369), Vol. 4, Number 38, May 2015.
- **Rajesh Kumar** (2015). UNESCO's efforts in the development of media education in India, Media Communique-Journal of Media Studies, Noida International University, (ISSN- 2395-3780), Vol. 1, Issue 1, April-September 2015.
- **Rajesh Kumar** (2015). Media Shiksha Niti: Ek Etihāsik Sandarbha, Jan Media-Journal of Media Studies Group, Vol. 40, pp 13-21, ISSN 2277-2847, July 2015.
- **Sudarshan Yadav** (2015). Modules, viz., Pro-women Media Activism and Actresses and Stardom, were published on the official website of NME-ICT, Government of India. These modules were the part of a paper named Women, Media and Films, under the PG course Women Studies. Published in September 2015.
- **Paramveer Singh** (2015). "Online Shopping: satisfaction level among the students of Central University of Jharkhand" published in International Research journal 'Universal Multi-disciplinary research journal' ISSN- 2395-6941, Sept-2015.
- **Paramveer Singh** (2015). "Perception of Youth Towards Credibility of News Channels", *Universal Multi-disciplinary Research Journal*, Vol-I, Issue-XI, March, 2016, ISSN-2395-6941, Pg No- 38-51.
- **Rajesh Kumar Pandey**. "Issues of development communication and third sector" in Mass Media, Vol- IV, No- 38, ISSN- 2277-7369, pg- 13-16.
- **Nazish Hena Khan** (2016). Research Paper titled *Comparative Advertising in India: Concept, Status and Self-regulatory Framework* in *Journal of Advanced Research in Journalism and Mass Communication* (ISSN: 2395-3810), Vol 3, No 1&2 (2016). pp. 1-8.
- **Nazish Hena Khan** (2016). Book Review of *Free Speech vs Hate Speech* by Prof. S.K. Tewari in *Communication Today* (ISSN: 0975-217X), Volume 18, No.1 (January-March, 2016), pp. 183-185.

## Book

- **S K Tewari**. Study of Free Speech vs. Hate Speech Published by A S Research and Learning Solutions Pvt. Ltd., Ghaziabad, on behalf of IASE Deemed University, Sardarshahar, Churu, Rajasthan, India. ISBN: 978-81-931705-3-3.

**IX. SCHOOL OF LANGUAGES****2. Centre for Far East Languages (Chinese, Tibetan & Korean)****A. Mission Statement:**

The Centre for Far East Languages envisages for producing language professionals by imparting world class education in foreign languages and culture with the aim to become a Centre of excellence in this field and serve the needs of the society at large.

**B. About the Centre:**

The Centre offers courses in Chinese, Korean and Tibetan and is under the aegis of School of Languages, Central University of Jharkhand.

**C. Academic Programmes:**

- Five Year Integrated Masters Programme in Chinese / Korean / Tibetan Language
- Ph.D. in Tibetan Language

**D. Regular Faculty:**

- Ms. Arpana Raj, Assistant Professor in Chinese
- Dr. Konchok Tashi, Assistant Professor in Tibetan
- Mr. Mukesh Kumar Jaiswal, Assistant Professor in Korean
- Mr. Shashi Kumar Mishra, Assistant Professor in Korean
- Mr. Sandeep Biswas, Assistant Professor in Chinese
- Dr. Kalsang Wangmo, Assistant Professor in Tibetan language

**Contractual / Guest Faculty:**

- Mr. Sanjay Kumar Jha, Assistant Professor (on contract) in Korean
- Mr. Rajneesh Ranjan Priyadarshi, Guest Faculty in Korean
- Mr. Purushottam Kumar, Guest Faculty in Korean
- Ms. Khana Baidya, Guest Faculty in Chinese

**Centre Coordinator:** Dr. Konchok Tashi

**E. Activities:****Centre**

Mr. Mukesh Kumar Jaiswal organized a Music program of Ustad Kamal Sabri (Saarangi Artist) with support of SPIC MACAY and Central University of Jharkhand on 27<sup>th</sup> January, 2016.

**Faculty****Ms. Arpana Raj**

- Was invited for delivering a Guest lecture for a Chinese Language Conference, conducted at Air Force Station, Bagdogra on 27<sup>th</sup> & 28<sup>th</sup> October 2015 on the theme of “Learning Chinese through

**IX. SCHOOL OF LANGUAGES****1. Centre for English Studies****A. Mission Statement :**

The Centre envisions creating world class environment for teaching and learning English language and literature. It aspires to nurture deeper analytical sensibilities in learners with equally efficient language and communication skills so that they could effectively cope up with the professional challenges of their lives.

**B. About the Centre :**

The Centre for English Studies came into being with the very inception of Central University of Jharkhand and started its first academic programme in the session 2009-10. Ever since it was established in 2009, the Centre has emerged as a major Centre for teaching and learning English literature and language. The Centre offers Five Year Integrated M. A. and Ph. D. programmes in English. Moreover, the Centre also offers courses in functional English and English for Specific purposes to the students of various Centres of the University such as Engineering, Management, Mass Communication and Applied Sciences.

**C. Academic Programmes:**

- Five Year Integrated Masters Programme in English
- Ph.D. in English

**D. Regular Faculty:**

- Dr. Shreya Bhattacharji, Associate Professor
- Dr. Rahul Chaturvedi, Assistant Professor
- Dr. Ranjit Kumar, Assistant Professor
- Dr. Mayank Ranjan, Assistant Professor

**Contractual/ Guest Faculty:**

- Dr. Amit Kumar Dubey, Asst. Professor (on contract)
- Dr. Md. Aslam Parwez, Asst. Professor (on contract)
- Dr. Punyajit Gupta, Guest Faculty
- Dr. Santoshi Bhawani Mishra, Guest Faculty
- Dr. Lisa Thomas, Guest Faculty
- Dr. Pralayankar Kumar Singh, Guest Faculty
- Mr. Nirankar Mishra, Guest Faculty
- Ms. Somwrita Ghosh, Guest Faculty
- Ms Renuka Sahu, Guest Faculty

**Centre Head:** Dr. Shreya Bhattacharji

**E. Activities:****Centre:**

Special Lecture Series organized by School of Languages, Central University of Jharkhand on 13<sup>th</sup>, 14<sup>th</sup> and 17<sup>th</sup> Oct 2015.

**Speakers:**

- **Professor Vyjayanti Raghavan**, Centre for Korean Studies, Jawaharlal Nehru University, New Delhi.





## IX. SCHOOL OF LANGUAGES

## 1. Centre for English Studies

Topic: Korea and India: Towards Cultural Understanding.

- **Professor Anita Singh**, Department of English, Banaras Hindu University, Varanasi.  
Topic: Feminisms in India
- **Professor Andrea Loseries**, Former Professor, Department of Indo-Tibetan Studies, Visva Bharati.  
Topic: Impressions of Tibet and Its Cultural Relics: An Introduction into the Cultural History of Tibet.
- **Professor H. P. Gangnegi**, Department of Buddhist Studies, University of Delhi, New Delhi  
Topic: Buddhism in Tibet: Continuity & Change.
- **Professor C. P Ravichandra**, Chairperson, Department of Studies in English, University of Mysore.  
Topic: The Third Interval
- **Professor Vijaya Guttal**, Former Professor & Chairperson, Department of English, Karnataka University, Dharwad.  
Topic: Gendered Intervention and Translation: Phaniyamma, Breaking Ties & Singarevva and the Palace.
- **Professor Avadhesh Kumar Singh**, School of Translation Studies and Training, IGNOU, New Delhi.  
Topic: Indian Aesthetics

## Faculty:

## Dr. Shreya Bhattacharji

- Presented a paper entitled “**Re-Reading the Unique Cultural Mosaic of the Lepcha Community**” at the International Conference on **Narrativising Indigeneity- Looking to the Future** organized by Centurion University of Technology and Management, Odisha in association with Deakin University, Australia, IGNOU, and Central University of Odisha, Koraput at Paralakhemundi, Feb 24-27 2016.
- Invited to chair a session at the International Conference on **Ismat Chughtai “In the Name of Chughtai: One Hundred Years of Celebration”** (1915-2016) organized by the Department of Comparative Literature, Jadavpur University, in collaboration with MAKAIAS and ICSSR-ERC at Kolkata, Jan 13-15, 2016.
- Presented a paper entitled “**Traversing Within and Without: The Mbari Tradition of Igbo Nigeria**” at the International Conference **Palaver XIII on Journey of Performance and Performing Art Forms Within Africa and Beyond** organized by the Centre for Studies in African Literatures and Cultures, Jadavpur University, Kolkata, Jan 11-12, 2016. Also chaired a session at the conference.
- Presented a paper entitled “**Periphery to Centre: Re-reading the Unique Cultural Mosaic of the Lepcha Community**” at the International Conference on **Cultural Heritage of Sikkim** organized by the Department of Anthropology, Sikkim University, Gangtok, April 25 - 27, 2015.
- As Resource Person delivered a lecture on “**Literary Theory and Folklore Research**” at the National Workshop on **Research Methodology and Social Sciences for Folklore Studies** organized by Centre for Tribal Folklore, Language and Literature, Central University of Jharkhand and sponsored by ICSSR, New Delhi, Feb 1-10, 2016.
- As Resource Person delivered a lecture on “**We can be, and frequently are, our own enemies:**



## IX. SCHOOL OF LANGUAGES

## 1. Centre for English Studies

**Relocating Biafra in Chimamanda Ngozi Adichie's *Half of a Yellow Sun***” at the **UGC-sponsored National Seminar on War, Literature & Humanity: Rethinking English Literature in the Context of World War I** organized by Prabhat Kumar College, Contai, West Bengal, Nov 18-19, 2015.

- Presented a paper entitled “**Periphery to Centre: Lepchas of India and Igbo's of Nigeria**” at the Conference on **Tribes in Contemporary India: Orality, Identity and Development** at Samvaad – A tribal Conclave organized by Tata Steel, Jamshedpur, Jharkhand, Nov 15-18, 2015.

## Dr. Ranjit Kumar

1. Delivered lectures in three- day lecture series in the month of June 2015 at the Department of English in K.B. Women's College, Madhepura on Contemporary Relevance of Shakespeare

## Dr. Mayank Ranjan

1. Delivered lectures in three- day lecture series in the month of June 2015 at the Department of English in K.B. Women's College, Madhepura on Contemporary Relevance of Shakespeare

## Student's Achievement

1. **Sundar Kumar**, Centre for English Studies, Reg. No. CUJ/I/EN/2014/25, 1<sup>st</sup> semester, won medal in Ranchi District Athletes Association, Ranchi on 15-08-2016.
2. **Deepsikha Kumari**, Centre for English Studies, Reg. No. CUJ/I/EN/2014/25, 5<sup>th</sup> semester, Won Bronze medal (3<sup>rd</sup> position), **WUSHU**, State level championship on 8<sup>th</sup> November, 2015.
3. **Usnis Banerjee**, Centre for English Studies, 5<sup>th</sup> Semester, Reg. No. CUJ/I/EN/2014/11, 5<sup>th</sup> semester, Secured 3<sup>rd</sup> position in SARGAM Competition in spring fest in IIT Kharagpur, in 2015.

## F. Publications:

## Book/Chapter in a Book

1. **Bhattacharji, Shreya**, (2015). “**Foregrounding the Margin: Traditional Value Systems of Lepchas of India and Igbos of Nigeria**” in an anthology *Performing Identities: Celebrating Indigeneity in the Arts* edited by G. N. Devy et al., Routledge, Taylor & Francis Group, India, UK, ISBN 978-1-138-79599-0.
2. **Bhattacharji, Shreya**, (2015). “**Cartographic Sport/Throttled Stories: Re-reading 1947 India/Pakistan**” in an anthology *Contested Identities: Literary Negotiations in Time and Place* edited by Roger Nicholson, Claudia Marquis and Gertrud Szamosi, Cambridge Scholars Publishing, UK, 2015. ISBN (10): 1-4438-7846-4, ISBN (13): 978-1-4438-7846-3.
3. **Anupama, Ranjan Mayank**, (2016). “**Sense of Value Based Media: Spirituality, Media and Social Change**, in *Role of New Mass Communication Medium in the Development of Hindi Language*, Ed by Dept. of Mass Communication. Mahatma Gandhi International Hindi University, Vardha, Maharashtra, ISBN- 978-93-85144-77-6





## IX. SCHOOL OF LANGUAGES

## 2. Centre for Far East Languages (Chinese, Tibetan &amp; Korean)

7. **Mishra, Shashi K.** (2015). Exploring non Native Korean Speaker Teacher's Classroom Language at Central University of Jharkhand. In conference proceedings: Methodology for Comprehension and Expression in Korean Language Education, Organized by Association of Korean Language Educators in India.
8. **Jha, Sanjay K.** (2015). Teaching Basic Korean Expressions: Methods, Techniques and Challenges. In conference proceedings: Methodology for Comprehension and Expression in Korean Language Education, Organized by Association of Korean Language Educators in India.



## IX. SCHOOL OF LANGUAGES

## 2. Centre for Far East Languages (Chinese, Tibetan &amp; Korean)

- Modular Packages” or “Challenges in Chinese to English language Translation”.
- Participated in 1<sup>st</sup> Workshop of the project for “Translation & Publication of Classic & Contemporary Works of China into Hindi” on 19<sup>th</sup> February 2016 at JNU, New Delhi for the MOU signed between The Ministry of External Affairs, India and The State Administration of Press, Publication, Radio and Television, China on “Cooperation in mutual translation and publication of Classic and Contemporary Works” of India and China in 2013. As well as signed the contract with National Book Trust to become a part of this project under Ministry of External Affairs, India.

**Mr. Mukesh Kumar Jaiswal**

- Participated in KGSP Alumni Invitation Program 2015 from 19<sup>th</sup> July to 26<sup>th</sup> July 2015 held in South Korea.

**Mr. Sandeep Biswas**

- Attended a workshop of Confucius Institute Headquarters (Hanban) titled “Teachers of Chinese As A Foreign Training Program” organized at Cheena Bhavan, Visva-Bharati, Santiniketan from 6<sup>th</sup> April 2015 to 13<sup>th</sup> April 2015.
- Attended “Visiting Program for Young Sinologist 2015” held in Beijing, China jointly organized by Ministry of Culture of the People's republic of China (MOC) and the Chinese Academy of Social Sciences (CASS) from 05<sup>th</sup> July 2015 to 24<sup>th</sup> July 2015.

**Dr. Kalsang Wangmo**

- Presented a paper titled; *'The concept of Re-incarnation in Tibetan Heritage: The Life and Legacy of the 14<sup>th</sup> Dalai Lama, his Political, Spiritual and Social impact on Tibetan people'* organized by Centre for the Study of Chan Buddhism and Human Civilization, the Chinese University of Hong Kong and Co- Organized by *Academy of Chinese Buddhism, Faculty of Arts, University of Macau, Institute for the Study of Buddhism and Ethics, Renmin University of China, Philosophy Department, Sun Yat-sen University, Center for Buddhist Studies at Peking University, Philosophy Department and Center for Buddhist Studies, the University of Taiwan, The 10th Young Scholar Symposium for the Study of Buddhism' - The 7th Cross-Strait Four Regions and International Conference on the Study of Buddhism*” from **24<sup>th</sup> July to 27<sup>th</sup> July, 2015** at the Room 221, 2/F, Leung Kau Kui Building, **The Chinese University of Hong Kong, Shatin, Hong Kong.**



## IX. SCHOOL OF LANGUAGES

## 2. Centre for Far East Languages (Chinese, Tibetan &amp; Korean)

## F. Students:

## Chinese Students:

- **Mr. Yurvraj Singh, Rohit Kumar and Mr. Rohan Jha** has received 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes respectively in the Second Hieun Tsang Cup, 2015 organized by Cheena Bhavana, Visva-Bharati, Santiniketan in association with Consulate Office of People's Republic of China in Kolkata.
- Friendship Cup-2015 was organized by Consulate General of PRC and School of Languages, Kolkata in which **Ms. Mitali Choudhari, Mr. Abhijeet Kumar and Mr. Bablu Kumar** received 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes respectively.

## Korean Students

- The 9 students of the Centre appeared in Test of Proficiency in Korean (TOPIK) on 26th April, 2015 and four students – Anamika Kumari, Smriti Kumari, Rajan Kumar, and Subham Kumar – passed the 1<sup>st</sup> level of TOPIK.
- The (group of 10) students of CFEL (Korean) went on a Educational trip to participate in Korean Language Workshop at University of Delhi, Delhi during 25<sup>th</sup> to 27<sup>th</sup> April 2015. During the workshop the students attended the lecture delivered by Dr. Sandeep Mishra, Associate Professor and Prof. Skand Tayal, Department of East Asian Studies, DU on subjects like Korean Economy, Indo Korea Economic and Strategic Relations etc. They also had interaction session with native Koreans (a group 20 Korean students at DU). They also visited the Korean Culture Centre New Delhi.
- **Ruchi Kumari** of 5<sup>th</sup> Semester IMA (Korean) visited South Korea and attended "Youth Camp for Asia's Future" held in South Korea from August 6 to August 18, 2015.
- A group of 7 students of IMA (Korean) went on an Educational trip to participate in Hangeul Day Celebration at JNU, Delhi during 7th October to 9<sup>th</sup> October 2015. The students participated in All India Korean Essay Writing Competition and All India Korean Singing Competition, organised by center for korean studies, JNU, New Delhi on 7th, 8th and 9th October, 2015. **Devsaran Sharma** of 1st year participated in essay writing of beginner1 and was awarded 1st prize.
- **Anamika, Manikant and Surbhi** of 2nd year participated in essay writing of beginner and **Manikant Kumar** was awarded 3rd prize. **Ruchi and Arya** of 3rd year participated in essay writing of intermediate level in which **Arya Kumari** was awarded 2nd prize. Three students Arya, Manikant and Smiriti have participated in singing contest in which **Arya Kumari** was awarded 3rd prize. Apart from this students were also invited for Korean Food Festival, Korean Story Telling, movie screening, student seminar and other cultural activities.
- **Manikant Kumar, Md. Asif Ansari and Md. Meraz Uddin** of 3<sup>rd</sup> Semester and Devsharan Sharma of 1<sup>st</sup> Semester participated in the Inaugural Program of "Priya Korea Club" which was held on 19th and 20th November, 2015 JNU, New Delhi. **Devsharan Sharma** got 2<sup>nd</sup> Prize in "Korean Handwriting Competition" and **Manikant Kumar** got 2<sup>nd</sup> prize in "Korean Vocabulary Competition" at beginners level.



## IX. SCHOOL OF LANGUAGES

## 2. Centre for Far East Languages (Chinese, Tibetan &amp; Korean)

- Anamika Kumari of 3<sup>rd</sup> Semester IMA (Korean) was awarded with ASIAN AIRLINES FELLOWSHIP 2015 of RS 28000 sponsored by Asian Airlines on November 26, 2015

## Tibetan Students:

## Ph.D. Students in Tibetan Language

- **Mr. Eshey Namgial** presented a paper entitled 'Flourishing Tibetan Buddhism & Language in Ladakh' in the National Seminar on "Young Tibetan Research Scholars Conference" from 21<sup>st</sup>-22<sup>nd</sup> October 2015, organized by Tibet Policy Institute, Dharamsala, H.P.
- **Mr. Eshey Namgial** was invited to give a lecture on the topic 'Socio-Cultural and Historical Perspectives of Ladakh' on 9<sup>th</sup> October 2015 in the Centre for Mass Communication, Central University of Jharkhand.
- **Mr. Ngawang Tsepag** was invited to give a lecture on the topic 'Socio-Cultural realities and Political Issues of Arunachal Pradesh' on 12<sup>th</sup> October 2015 in the Centre for Mass Communication, Central University of Jharkhand.
- **Ms. Phuntsog Dolma** presented a paper entitled 'The Face of Tibetan Buddhism after 1959' in the National Seminar on "Young Tibetan Research Scholars Conference" from 21<sup>st</sup>-22<sup>nd</sup> October 2015, organized by Tibet Policy Institute, Dharamsala, H.P.

## G. Publications:

## In Journals:

1. **Tashi, Konchok.** (2015). "English as medium of instruction in Rural Areas Specifically in Leh Ladakh (J&K)" in *Chavan, Sandip P.* (ed.) 'Recent Trends in English Language Teaching (volume-I)', (ISBN: 9789385012006), Sahityayan Publisher, Kanpur.
2. **Mishra, Shashi, Kumar & Tashi, Konchok,** (2015). "English Language Education in Bihar". *Literary Cognizance*, I-3 (Dec., 2015): 35-38. Web.
3. **Mishra, Shahi, Kumar & Tashi, Konchok,** (2015). "Space for Indian English Teachers in Current Discourse on English Language Education in South Korea". *Literary Cognizance*, I-4 (Mar., 2016): 34-38. Web.
4. **Jaiswal, M. K.** (2015). 인도에서 어린이 교육의 문제 및 과제 (Problems and Challenges of Early Childhood Education in India), page: 55-56, KAHAR magazine (ISSN: 2394-3912), Quarterly Vol.- 2(1), 2015.
5. **Mishra, Shashi, Kumar & Tashi, Konchok,** (2015). "English Language Education in Bihar". *Literary Cognizance*, I-3 (Dec., 2015): 35-38. Web.
6. **Mishra, Shahi, Kumar & Tashi, Konchok,** (2016). "Space for Indian English Teachers in Current Discourse on English Language Education in South Korea". *Literary Cognizance*, I-4 (Mar., 2016): 34-38. Web.





## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

### 1. Centre for Water Engineering & Management

#### G. Students:

- The students of Centre for Water Engineering & Management participated and presented research papers in the National Seminar on “Water and Sustainable Development” organized by Center for Water Engineering and Management at Central University of Jharkhand, Ranchi during 8-9 January 2016.
- Students of 4<sup>th</sup> and 6<sup>th</sup> Semester were undergone summer practical training at JUSCO, Jamshedpur, Tata Steel, Jamshedpur, Obra Hydel Power Plant, Obra, U.P., Bokaro Steel Plant, Bokaro, Jharkhand State Groundwater Directorate, Ranchi, National Highway Authority of India, DVC, Hazaribag, Public Health Engineering Department, Dholpur, Rajasthan.

#### H. Publications:

##### in Journals:

- Ajai Singh** (2015). Modeling Stream Flow with prediction uncertainty by using SWAT hydrologic and RBNM models for agricultural watershed in India. Accepted in National Academy Science Letters, 2015.
- Ajai Singh**. (2015). Optimization of neural network structure for radial basis function network for simulation of hydrological processes. Indian Journal of Soil Conservation, 43 (3), pp. 250-254
- Jha, S. and **Singh A.** (2015). Rainfall Runoff Modeling by Artificial Neural Network - A Case Study of Chotki Bharghi Watershed in Damodar Barakar Basin, Jharkhand. International Journal of Artificial Intelligence and Mechatronics, 4(2), pp. 69-73.
- Parhi, P.K.** (2015). “Evolution of Morphology of River Brahmaputra due to Vegetative Cover Changes”, Global journal for Research Analysis, Vol. 4, Issue 8, PP 35-37.
- Rawat, K.S. and **Tripathi, V.K.** (2015). Hydro-chemical survey and quantifying spatial variations of groundwater quality in Dwarka, Sub-city of Delhi, India. Journal of the Institution of Engineers (India): Series A. Vol. 96, 2, 99-108. DOI 10.1007/s40030-015-0116-0.
- Rawat, K.S., and **Tripathi, V.K.** (2016). Standardized precipitation index based approach for development of regional drought monitoring system. Journal of Remote Sensing Technology, Volume 04, Issue 1, pp 48-57. DOI 10.18005/JRST0401004.

##### Book/Chapter in a Book:

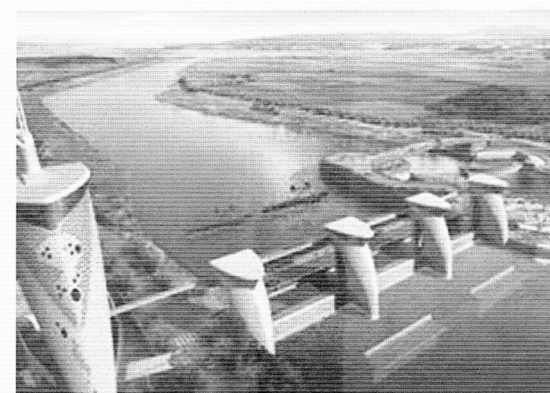
- Ajai Singh** (2015). Economic Returns for Drip Irrigated Tomato. In 'Research Advances in Sustainable Micro Irrigation: Applications of Furrow and Micro Irrigation in Arid and Semi-Arid Regions. Ed. Megh R. Goyal. Apple Academic Press, USA.
- Tripathi, V.K.** (2015) Impact of Flushing and Filtration System on Performance of Micro Irrigation Systems. Book Chapter 06, Management, Performance, and Applications of Micro Irrigation Systems. Apple Academic Press, USA. ISBN: 9781771880695.
- Perna Prasad and **Tripathi, V.K.** (2015). Microorganism Contamination in Crops Grown with Wastewater Irrigation: A Review. Book Chapter 07, Wastewater Management for Irrigation: Principles and Practices. Apple Academic Press, USA. ISBN: 9781771881203.



## X.SCHOOL FOR NATURAL RESOURCE MANAGEMENT

The School of Natural Resources Management has three Centres, viz.

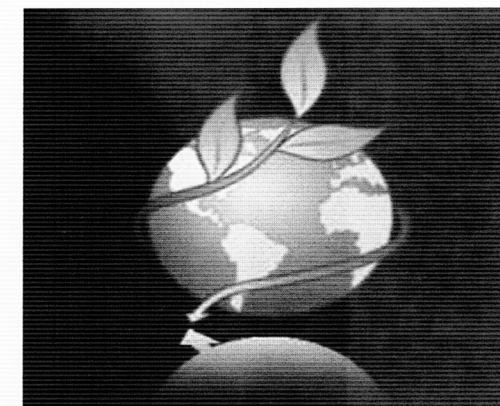
1. *Centre fo Water Engineering and Management*
2. *Centre for Land Resource Management*
3. *Centre for Environmental Science*



1. Centre for Water Engineering and Management



2. Centre for Land Resource Management



3. Centre for Environmental Science



**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****2. Centre for Land Resource Management****F. Student**

- **T. Ahmad**, A.C. Pandey, A. Kumar presented a paper entitled “Built-up development vis-à-vis flood vulnerability in Srinagar city, Kashmir valley (J&K) India” in National conference: Climate Change and Sustainable development: Emerging Issues and Mitigation Strategies (CCSD-2015), BBA University, Lucknow, 23-24 Nov. 2015 (Presenting Author: T. Ahmad).

**G. Publications:****In Journals:**

1. **A. Kumar**, A.K. Rai and **A.C. Pandey**, (2016). Geoinformatics based Site Suitability Modeling for Future Urban Development using MCDM- Analytic Hierarchy Process Techniques. *In Remote Sensing for Natural Resources Management & Monitoring*; M.K Guar, C.B. Pandey and R.K. Goyal (eds.), Scientific Publishers, India. (Accepted, in press).
2. **P. Saikia**, **A. Kumar** and M.L. Khan, (2016). Biodiversity status and climate change scenario in Northeast India. *In: Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building*; S. Nautiyal, R. Schaldach, K.V. Raju, H. Kaechele, B.I Pritchard and K.S. Rao (eds.), Springer International Publishing, Switzerland. ISBN: 978-3-319-31013-8; DOI 10.1007/978-3-319-31014-5\_8; Accepted, in press. (Corresponding Author: A. Kumar).
3. **A. Kumar**, (2016). Urbanization on Natural Resource Management: A geoinformatics Approach. *In Remote Sensing for Natural Resources Management & Monitoring*; M.K. Guar, C.B. Pandey and R.K. Goyal (eds.), Scientific Publishers, India. Accepted, in press
4. Mushtaq Fayma, Mili Ghosh Nee Lala, A.C. Pandey (2015). Assessment of pollution level in a Himalayan Lake, Kashmir, using geomatics approach. *J. Environ. Anal. Chem.*, 2015 Vol. 95, No. 11, 1001–1013, <http://dx.doi.org/10.1080/03067319.2015.1077517>.
5. A.C. Pandey, Dipankar Saha and Suraj Kumar Singh (2015). Geological and hydrogeomorphological control on iron-arsenic contamination in groundwater in part of Gangetic plain, India. *Int. Journal of Advances in Remote Sensing and GIS*, Vol. 4, No. 1, pp. 55-63.
6. A. Yaduvnshi, P.K. Srivastava and A.C. Pandey (2015). Integrating TRMM and MODIS satellite with socio-economic vulnerability for monitoring drought risk over a tropical region of India, *Physics and Chemistry of the Earth*, Elsevier, DOI: <http://dx.doi.org/10.1016/j.pce.2015.01.006> (Accepted, In press)
7. Tirkey, A.S., Ghosh, M. and A.C Pandey (2016). Soil erosion assessment for developing suitable sites for artificial recharge of groundwater in drought prone region of Jharkhand state using geospatial techniques. *Arab J Geosci* (2016) 9: 362. doi:10.1007/s12517-016-2391-0.
8. A.K. Yadav, S. Kanga, R.K. Chauhan (2015). The Development and Customization of Desktop GIS Application with Map Window & Dot Technology IJSRD. *International Journal for Scientific Research & Development*, Vol. 3, Issue 02, 2015 | ISSN (online): 2321-0613.
9. N. Hoda and A. Kumar (2015). 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*. 3(1):1-10.
10. Arockraj. S., A. Kumar, N. Hoda, and A.T. Jeyaseelan (2015). Quantification and identification of tree species in open mixed forests using high resolution QuickBird satellite imagery. *International Journal of Tropical Forestry*. 5(2):40-53 (Corresponding author: A. Kumar).

**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****1. Centre for Land Resource Management****A. Mission Statement:**

Centre started functioning in January 2012, under the *School of Natural Resource Management* with a mission to provide education in the field Geoinformatics **for Land Resources Management** aiming towards policy formulation, sustainable development of the society and the environment.

**B. About the Centre:**

The Centre for Land Resource Management started functioning in January 2012, under the School of Natural Resource Management. The Centre offers various courses in Geoinformatics. These courses are designed keeping the advances of Remote Sensing, GIS and GPS technologies and its integration with geo-sciences, water resources, wildlife habitat, forest and ecology, agriculture and soil, coastal management, urban & regional planning etc. with wide spectrum of research in these field. These courses aim to develop both a solid theoretical understanding and a comprehensive practical introduction to the use of Geo-informatics in the day-today life as well as in the sustainable development of the society and the environment.

The Centre is equipped with basic and state of art equipments, which includes Workstations, Server, DGPS, Handheld GPS, DSLR camera, Scanners, plotters as well as various GIS and Image Processing softwares viz., Geomatica, MAPINFO, IGIS, Erdas Imagine, AutoCAD and eCognition.

The Centre for Land Resource Management is committed to serve the academic community and society as a whole through terrestrial and extra-terrestrial research base in collaboration with Indian Space Research Organization (ISRO), Columbia Water Centre (CWC), Columbia University, New York, Survey of India (SOI), Geological Survey of India (GSI) and various academic/ research institutions of national and international repute.

The futures plans of the Centre include extensive interdisciplinary research programmes by students and faculties in various areas of resource management using Geoinformatics.

**C. Academic Programmes:**

- Five Year Integrated M.Tech. in Geoinformatics
- Two Year M.Sc. in Geoinformatics
- Ph.D.

**D. Regular Faculty:**

- Prof. A.C. Pandey, Professor
- Dr. Laxmi Kant Sharma, Assistant Professor
- Dr. Kanhaiya Lal, Assistant Professor
- Dr. Amit Kumar, Assistant Professor
- Mr. Kiran Jalem, Assistant Professor

**Contractual/ Guest Faculty:**

- Dr. Shruti Kanga, Assistant Professor (On Contract)
- Dr. Suraj Kumar Singh, Assistant Professor (On Contract)

**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****1. Centre for Water Engineering & Management****A. Mission Statement:**

Water is a most essential constituent necessary for survival of all living beings on the earth. Ensuring continuing availability and need-based distribution of good quality water can form the single most important mission for all countries of the World. All this is possible only if proper awareness is brought about and competent manpower trained and made available in the area of Water Engineering & Management. The centre offers a balanced curriculum, covering the engineering aspects of water resource development and management. Students are trained to acquire sufficient knowledge to workout viable and sustainable solutions in the area of integrated water resources management.

**B. About the Centre:**

The Centre for Water Engineering and Management was started in July, 2010 under the School of Natural Resources and Management of Central University of Jharkhand. The Centre offers 5 years Integrated M.Tech program in Water Engineering and Management, a first of its kind in India and Ph.D program in Water Engineering and Management. It offers a balanced curriculum, covering both the engineering as well as management aspects of water resource development.

**C. Academic Programs:**

- Five Year Integrated M. Tech. programme
- Ph.D programme

**D. Regular Faculty:**

- Prof. H. P. Singh, Professor
- Dr. Ajai Singh, Associate Professor
- Dr. P. K. Parhi, Assistant Professor
- Er. Birendra Bharti, Assistant Professor
- Er. Pratibha Warwade, Assistant Professor

**Contractual / Guest Faculty:**

- Er. Pancham Kumar, Assistant Professor (on contract)
- Er. Richha Pandey (Guest Faculty)
- Er. Brijes Patel (Guest Faculty)

**Laboratory Staff:**

- Mr. Rana Ranveer Singh, Technical Assistant
- Mr. Narendra Kumar Rai, Laboratory Attendant

**Centre Head:** Dr. Ajai Singh

**E. Honor/Recognition:**

- Centre for Water Engineering and Management continues to be empanelled as State Technical Agency for Department of Drinking Water and Sanitation, Govt. of Jharkhand.

**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****1. Centre for Water Engineering & Management**

- Dr. V.K. Tripathi has been empanelled as Individual National Level Expert (NLE) for the Ministry of Drinking Water and Sanitation, Govt. of India.

**F. Activities:****Centre:**

- The Centre for Water Engineering and Management organised 2 days National Seminar on “Water for Sustainable Development” during January 8-9, 2016 in the Central University of Jharkhand, Brambe. The seminar was sponsored by Ministry of Earth Science, Government of India and NABARD, Ranchi.

**Faculty:****Dr. P.K Parhi**

- Presented a paper titled “Analysis of rainfall and temperature trend of Bihar State (India) in the National Conference on Environmental Challenges and Solutions, held at CSIR, Jamsedpur, November 5-6, 2015.
- Acted as 'Co-Convener and Treasurer on National Seminar on “Water and Sustainable Development” organized by Center for Water Engineering and Management at Central University of Jharkhand, Ranchi during 8-9 January 2016

**Dr. Ajai Singh**

- Acted as Convener of National Seminar on “Water and Sustainable Development” organized by Center for Water Engineering and Management at Central University of Jharkhand, Ranchi during 8-9 January 2016.
- Delivered a lecture in DVC Hazaribagh during February 4-5, 2016.
- Delivered lecture on Natural Resources Management at Jharkhand Tribal Development Society on February 16, 2016.
- Delivered lecture on 'Irrigation Water Measurement' and 'Irrigation Scheduling' at State Institute of Rural Development, Ranchi on 04.03.2016.

**Dr. V. K. Tripathi**

- Presented a paper titled 'Yield and quality of eggplant under subsurface drip irrigation using wastewater. Presented in the 50<sup>th</sup> Convention of ISAE and Symposium on “Agricultural Engineering in Nation Building: Contributions and Challenges” held at OUAT, Bhubaneswar, Odisha during January 19-21, 2016 (ISAE-2016/SWE/IPC-06).
- Worked as Resource Person in Special Summer School 2015 at MHRD-Academic Staff College, Ranchi University, Ranchi during 18<sup>th</sup> May to 7<sup>th</sup> June 2015.
- Acted as 'Organizing Secretary' of National Seminar on “Water and Sustainable Development” organized at Central University of Jharkhand, Ranchi during 8-9 January 2016.





## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

### 2. Centre for Land Resource Management

- Mr. Kinshuk Kamal, Guest Faculty
- Ms. Divya Kumari, Guest Faculty
- Mr. Dileep Kumar, Guest Faculty
- Mr. Milan Mandal, Guest Faculty

**Centre Head:** Prof. A.C. Pandey

#### Research Project received:

- Ministry of Environment and Forest (MoEF), GoI in principle approved a research project with financial assistance of Rs. 38,44,800/- to Prof. A.C. Pandey for the project entitled '*Implication of changing climate on flood severity in Bihar flood plains using Geoinformatics: A case study of Kosi Basin*'.

#### E. Activities:

##### Centre:

- Centre organized **Youth Seminar** in collaboration with TERI, New Delhi held during 12-13<sup>th</sup> Jan. 2016 at CUJ, Brambe Campus.
- Centre continued long term collaboration with Shri Krishna Institute of Public Administration (SKIPA), Ranchi, Govt. of Jharkhand as a Technical Partner of Sub-committee in National Land Records Modernization Program, Govt. of India.
- Centre continued long term collaboration with Department of Disaster Management, Govt. of Jharkhand as a knowledge partner in the area of Disaster Management.

#### Faculty:

##### Prof. A.C Pandey

- Presented a paper entitled "Glacier domain mapping with focus on crevasses development for retreat analysis in Pensilungpa glacier, Zaskar Valley, J&K, India" in NISAR Science & application workshop, 19-20 Nov, 2015, SAC (ISRO), Ahmedabad
- Delivered invited lecture on "Application of Remote Sensing hydro-meteorological Disaster" in Administrative Training Institute, SKIPA, Ranchi on 6.1. 2016.
- Delivered invited lecture on "Application of Remote Sensing in Ground water development and Management" in Ministry of Water Resource Training program on 21.01.2016 at VISWA, Kanke, Ranchi.
- Delivered invited lectures on "Remote Sensing in Water Resource Management" at Training Program by India Water Foundation, on 2.2.2016 at VISWA, Kanke, Ranchi.
- Delivered invited lecturer on "Land resource Management: Cultural Vs Scientific" on 4.2.2016 during National workshop on Res. Methods in Soc. Sci for folklore studies at CUJ, Ranchi.
- Delivered invited lecture on 'Application of Remote Sensing Technology in Water Resource Management' at ISM, Pundag, Ranchi during 22 Feb. 2016.



## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

### 2. Centre for Land Resource Management

- Acted as Remote Reviewer for two projects for AXA Research Fund- Junior Research (Post-Doctoral) Fellowship Campaign –2016 by European Science Foundation, France.
- Acted as AICTE Observer on 15.01.2016 in Ranchi

#### Dr. A. Kumar

- Presented a paper entitled "Assessment of Growing Ambient Noise Pollution in Ranchi Urban Environment Using Geospatial Techniques" and abstract published in page 23 of the Book of Abstracts of International Conference on Water, Environment, Energy and Society (ICWEES-2016) organized by AISECT University, Bhopal in collaboration with Texas A&M University, USA at Bhopal, India during 15<sup>th</sup> to 18<sup>th</sup> March, 2016. (Co Author: A. C. Pandey)
- Presented a paper entitled "Urban Growth Modeling and Impact of Coal Mining Activity in Dhanbad Urban Agglomeration, Jharkhand using Geoinformatics Techniques. and abstract published in page 26 of the Book of Abstracts of International Conference on Water, Environment, Energy and Society (ICWEES-2016) organized by AISECT University, Bhopal in collaboration with Texas A&M University, USA at Bhopal, India during 15th to 18th March, 2016. (co-author K. Lal, D. Kumar)
- Performed as External Examiner for the Practical Examination of P.G. Diploma in Geoinformatics (Semester I) at Department of Geography, Rajiv Gandhi University, Doimukh, Arunachal Pradesh and examined students for papers Remote Sensing and GPS, Geographic Information System, Cartography and Geostatistics, and Geosciences and Image Interpretation during 21st – 22nd Dec. 2015.

#### Shri Kiran Jalem

- Acted as an Observer for UGC-NET Exam 2015 on 28<sup>th</sup> June 2015 in Ranchi.
- Presented a paper entitled "Methodology for Protection and Development of Surface and Subsurface Water Resources of Visakhapatnam Urban Area using Geo-Spatial Technology in the National Conference on "Environmental Challenges and Solutions (NC-ECS 2015)" held at CSIR-National Metallurgical Laboratory, Jamshedpur during November 5-6, 2015.
- Delivered invited lecture on "Disaster Management as a resource person in the "Ten Day National Workshop on Research Methodology in Social Sciences for Folklore Studies" conducted by the Centre for Tribal Folklore, Language and Literature, CUJ, Ranchi sponsored by the ICSSR, New Delhi from 1<sup>st</sup> to 10<sup>th</sup> February, 2016.
- Contributed Abstract and Full Paper on "Development of Water Resources for Micro Watershed at Chinamushidiwada Village in Visakhapatnam, Andhra Pradesh, India" and full paper got published in Seminar Proceedings of the National Seminar on Geoinformatics Applications in Natural Resources Management held at CGARD, NIRDPR, Hyderabad, Telangana during March 18<sup>th</sup> - 19<sup>th</sup> 2016.
- Presented a paper entitled "Vertical Electrical Sounding for Groundwater Exploration for part of Visakhapatnam Urban Area, Andhra Pradesh" in the UGC SAP DRS-1 Sponsored National Seminar on "Emerging Trends in Exploration and Management of Earth Resources (ETEMER 2016)" organized by Department of Geology, Andhra University, Visakhapatnam during 28<sup>th</sup> & 29<sup>th</sup> March, 2016.



**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****3. Centre for Environmental Science**

9. **Bauddh, K.**, Singh K., Singh, B. and Singh R.P. (2015). *Ricinus communis*: A robust plant for bio-energy and phytoremediation of toxic substances from contaminated soil. Ecological Engineering, 84C, 640-652, **Publisher: Elsevier**
10. **Bauddh, K.** and Singh R.P. (2015). A comparative study on effect of cadmium on antioxidative defense system and alteration in different functional groups in castor bean (*Ricinus communis* L.) and Indian mustard (*Brassica juncea* L.). Achieves of Agronomy and Soil Science DOI: <http://dx.doi.org/10.1080/03650340.2015.1083554>. [Impact Factor: ISI=1.118]. **Publisher: Taylor and Francis**
11. Sweta, **Bauddh K.**, Singh R., Singh R.P. (2015). *Trapa natans* cultivated in contaminated water is found hazardous and not suitable for phytoremediation of heavy metals. Ecological Engineering 83, 39-42, **Publisher: Elsevier**

**Conference Papers (Faculty):**

1. Dipesh Kumar, **Bhaskar Singh**. Prospects and challenge of biodiesel industry in India. National Conference on Environmental Challenges and solutions held on 5-6<sup>th</sup> November, 2015 at National Metallurgical Laboratory (CSIR), Jamshedpur.
2. Dipesh Kumar, **Bhaskar Singh**. Greening the Indian transport sector: Role of biodiesel held on 25-26<sup>th</sup> February, 2016 at BIT Mesra, Ranchi.
3. **Purabi Saikia** presented a paper titled 'Homegardens of upper Assam, A Sustainable Food Production System' in **National Conference** on Environmental Challenges & Solutions (NC-ECS 2015) organized by Nature Jamshedpur, Jharkhand in association with CSIR-NML, IIM, Tata Steel and CUJ at CSIR-NML, Jamshedpur, Jharkhand, India during 5<sup>th</sup> to 6<sup>th</sup> November, 2015.
4. **Purabi Saikia** presented a paper titled 'Homegardens of upper Assam, Northeast India: An Agroecosystem for conservation of tree species diversity' in **International Conference** on Water, Environment, Energy and Society (ICWEES-2016) organized by AISECT University, Bhopal in collaboration with Texas A & M University, USA at Bhopal, India during 15<sup>th</sup> to 18<sup>th</sup> March, 2016.

**Conference Papers (Ph.D. students):**

1. **Poulomi Chakravarty** presented a paper titled "Role of land surface processes and heterogeneities in regional climate change studies-A review" at International conference on climate change resilience, held at Pondicherry University, Pondicherry during 04-07 October 2015.
2. **Poulomi Chakravarty** presented a paper titled "Impact of human induced land use land cover changes on the regional climate system" at National conference on Environmental Challenges and Solutions, held at CSIR-NML Jamshedpur during 04-05 November 2015.
3. **Poulomi Chakravarty** presented a paper titled "Assessment of Impact of cyclone Thane on Vegetation and land surface temperature of landfall region using remote sensing and GIS tools" in National seminar on Recent advances in civil and Environmental engineering, held at BIT Mesra, Ranchi during 25-26 February 2016.
4. **Dipesh Kumar** presented a paper titled "Prospects and challenges of biodiesel industry in India" at National conference on Environmental Challenges and Solutions, held at CSIR-NML Jamshedpur during 04-05 November 2015.
5. **Dipesh Kumar** presented a paper titled "Greening the Indian transport sector *Role of Biodiesel*"

**X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT****3. Centre for Environmental Science****A. Mission Statement:**

The main mission of the Centre for Environmental Sciences is to carry out scientific research in thrust areas, humans and the environment and the sustainable management of natural resources. The Centre aims at making an important contribution to the environmental pollution, food production, climate change, nature and landscape management, soil and water management, rural and urban development and exploitation of underground resources. The centre also aims for collaborative research with other centre of the university and also with other universities and institutions of national and international repute.

**B. About the Centre:**

The Centre has diversified interest and biological processes. Linkages between Ecological and Social processes give an additional dimension to Centre's interest, making the work relevant. Therefore, the curriculum has components of multidisciplinary areas such as physical sciences, earth and atmospheric sciences, biology sciences, Chemical Sciences and environmental monitoring and management. The faculties of the centre have expertise in various fields of Environmental Sciences. The faculties of the centre have research projects from various funding agencies in their respective research areas. The faculties also hold a good record of publications in reputed and peer-reviewed national and international journals with a high impact factor, citation index and h-index.

**C. Academic Programmes:**

- Five Year Integrated M.Sc. in Environmental Sciences
- Ph. D. in Environmental Sciences

**D. Faculty:**

- Dr. Manoj Kumar, Associate Professor
- Dr. Bhaskar Singh, Assistant Professor
- Dr. Purabi Saikia, Assistant Professor
- Dr. Kuldeep Bauddh, Assistant Professor

**Contractual / Guest Faculty:**

- Dr. Sushil Kumar Shukla, Assistant Professor (on contract)
- Dr. Kavita Parmar (DST young scientist)
- Dr. Saurabh (Guest faculty)

**Center Head:** Dr. Manoj Kumar

**Research Projects:**

- **Dr. Purabi Saikia** (PI), Project title : Status, Distribution and Composition of Sal Forests of Ranchi, Jharkhand, East India in relation to microclimatic as well as edaphic conditions, grant of Rs.29.36 lakh sponsored by SERB, Gol under Young Scientists Scheme.

**E. Activities:****Faculty:**



## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

## 3. Centre for Environmental Science

## Dr. Manoj Kumar

- Delivered invited lead talk in **National Conference** on Environmental Challenges & Solutions (NC-ECS 2015) organized by Nature Jamshedpur, Jharkhand in association with CSIR-NML, IIM, Tata Steel and Central University of Jharkhand, Ranchi.

## Dr. Bhaskar Singh

- Delivered a two hour lecture as a '**Resource Person**' in the Ten Day National Workshop on Research Methodology in Social Sciences for Folklore Studies conducted by the Centre for Tribal Folklore, Language and Literature, Central University of Jharkhand (CUJ), Ranchi and sponsored by the Indian Council of Social Science Research (ICSSR), New Delhi from 1<sup>st</sup> to 10<sup>th</sup> February, 2016 at Central University of Jharkhand, Brambe, Ranchi (Jharkhand).
- Has been the reviewer of various International Journals viz. Fuel, Energy, Renewable Energy, Renewable & Sustainable Energy Reviews, Energy & Fuels, Journal of Cleaner Production, Materials Chemistry and Physics, Biofuel Research Journal, Oceanologia, and Journal of Agricultural Biotechnology and Sustainable Development.

## Dr. Purabi Saikia

- Visited CSIR-NML, Jamshedpur, Jharkhand, India during 5<sup>th</sup> to 6<sup>th</sup> November, 2015 for organizing and presenting paper in a **National Conference** on Environmental Challenges & Solutions (NC-ECS 2015) organized by Nature Jamshedpur, Jharkhand in association with CSIR-NML, IIM, Tata Steel and Central University of Jharkhand, Ranchi
- Visited AISECT University, Bhopal, India during 15<sup>th</sup> to 18<sup>th</sup> March, 2016 for presenting paper in an **International Conference** on Water, Environment, Energy and Society (ICWEES-2016) organized by AISECT University, Bhopal in collaboration with Texas A & M University, USA.
- Delivered one invited talk on 'Socioeconomic Research and its Prospects' in a 10 days
- Delivered one talk on 'Bamboos and its uses in day to day life of Common People' in a 5 days **Training Program** for the farmers on 'Raising, Managing and Marketing of bamboo' organized by Institute of Forest Productivity, Lalgutwa, Ranchi on 4th February, 2016.
- Contributed as **organizing member** of **National Conference** on Environmental Challenges & Solutions (NC-ECS 2015) organized by Nature Jamshedpur, Jharkhand in association with CSIR-NML, IIM, Tata Steel and Central University of Jharkhand, Ranchi at CSIR-NML, Jamshedpur, Jharkhand, India during 5<sup>th</sup> to 6<sup>th</sup> November, 2015.

## Dr. Kuldeep Baudhh

- Visited Central Institute for Mining and Fuel Research (CIMFR), Dhanbad with students of VII Semester as academic tour in March, 2016.
- Working as Associate 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).
- Working as Co-Editor of Magazine "Kahaar a carrier of knowledge for sustainable development" (www.kahaar.ac.in).



## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

## 3. Centre for Environmental Science

- Working as Joint-Secretary of the society "The Society for Science of Climate Change and Sustainable Environment (www.ssceindia.org)".
- is Joint Secretary of the society "Professor H.S. Srivastava Foundation for Science and Society (www.phssfoundation.org.in)".
- is the Reviewer of several International Scientific Journals such as International Journal of Phytoremediation (Publisher: Taylor and Francis); Chemosphere (Publisher: Elsevier); Springer Plus (Springer); Ecological Engineering (Publisher: Elsevier); Sustainability of Water Quality and Ecology (Publisher: Elsevier); Clean Soil Air and Water (Publisher: Wiley).

## Highlight the participation of students and faculty in extension activities:

- Ms. Jyoti Kumari** of 5<sup>th</sup> Semester got **Silver Medal** in Senior National Wushu Championship (2015) held o 27<sup>th</sup> December in Chandigarh
- Ms. Jyoti Kumari** of 5<sup>th</sup> Semester got **Gold Medal** in Jharkhand Wushu Championship (2015) held o 8<sup>th</sup> Nov, 2015

## F. Publications:

## In Journals:

- Abhay Srivastava, Mrinal Mishra, **Manoj Kumar** (2015). Lightning alarm system using stochastic modelling, *Natural Hazards*, January 2015, Volume 75, Issue 1, pp 1-11.
- Kumari Lipi and **Manoj Kumar** (2015). "Aerosol black carbon properties and Radiative forcing of aerosols over south east end of IGP" *International Journal of Applied Environmental Sciences* ISSN 0973-6077 Volume 10, Number 2 (2015), pp. 737-748 © Research India Publications.
- Srikanth Madala, A.N.V. Satyanarayana, C.V. Srinivas, **Manoj Kumar** (2015). Mesoscale atmospheric ?ow-?eld simulations for air quality modelling over complex terrain region of Ranchi in eastern India using WRF, *Atmospheric Environment*, 107 (2015) 315-328.
- SB Chavan, RR Kumbhar, D Madhu, **Bhaskar Singh**, YC Sharma (2015). Synthesis of biodiesel from *Jatropha curcas* oil using waste eggshell and study of its fuel properties. *RSC Advances* 5, 63596-63604.
- Abhishek Guldhe, **Bhaskar Singh**, Ismail Rawat, Kugen Permaul, Faizal Bux (2015). Biocatalytic conversion of lipids from microalgae *Scenedesmus obliquus* to biodiesel using *Pseudomonas fluorescens* lipase. *Fuel* 147 117-124
- K Baudhh, K Singh, **Bhaskar Singh**, RP Singh (2015). *Ricinus communis*: A robust plant for bio-energy and phytoremediation of toxic metals from contaminated soil. *Ecological Engineering* 84, 640-652.
- D Madhu, SB Chavan, V Singh, **Bhaskar Singh**, YC Sharma (2016). An economically viable synthesis of biodiesel from a crude *Milletia pinnata* oil of Jharkhand, India as feedstock and crab shell derived catalyst. *Bioresource Technology* 214 210-217.
- Baudhh, K.** and Singh R.P. (2016). *Ricinus communis* L. as a value added alternative for restoration of cadmium contaminated and degraded agricultural ecosystem. DOI: 10.1007/s00128-015-1669-3. *Bulleting of Environmental Contamination and Toxicology*, **Publisher: Springer**





## XI. SCHOOL OF ENGINEERING AND TECHNOLOGY

### 1. Centre for Energy Engineering

#### F. Activities:

##### Centre:

- **Industrial Visit :** A renewable energy site educational tour was arranged for the 8th semester students of Centre for Energy Engineering to Solar Photovoltaic Power Plant, Deoghar, Jharkhand in October 2015
- **Training and Placement :** The students of this centre have got their summer internship in reputed research institutes and organizations like Bhabha Atomic Research Centre (BARC) Bombay, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Bangalore, Indian Institute of Science (IISc) Bangalore, Bharat Heavy Electricals Limited (BHEL) Nagpur, Indian Institute of Chemical Technology (IICT) Hyderabad, Centre for Wind Energy Technology (C-WET) Chennai, Central Institute of Mining and Fuel Research (CIMFR) Dhanbad, Jamshedpur Utilities Supply Company (JUSCO) Jamshedpur, Tata Power Jamshedpur and National Institute of Solar Energy (NISE) Gurgaon, Bureau of Energy Efficiency(BEE) New Delhi, Indian Institute of Technology Madras, Institute of Plasma Research Gandhinagar, Centre for Science and Environment New Delhi, Indian Institute of Technology Bombay, Indian Institute of Technology Kanpur, Indian Institute for Science Education and Research(IISER) Pune, National Institute of Solar Energy(NISE) New Delhi.
- **Conference/Seminar/ Training program organized:** One day program on AKSHAY URJA DIWAS (an awareness campaign about the developments of renewal energy in India, was organized for the second year on 20th August, 2015.

##### Faculty:

##### Prof. S K Samdarshi

- Is the **senior editor** of *SESI Journal published by Solar Energy Society of India*.
- Examined a number of major projects of Ministry of New and Renewable Energy, New Delhi
- Reviewed an International project from Chile, South America.
- Judged the research work of the research scholars and faculty members on energy and materials of the “Avishkar” initiative of North Maharashtra University, Jalgaon on November 22, 2015.
- Delivered an **invited talk** on “Phase-complexation and nano-structuration of metal oxide photocatalyst for visible light activity ” on December 16, 2015 at International conference on Energy and Environmental Impact on Biodiversity and Sustainable Development held between December 15-17, 2015 at BRAB University, Muzaffarpur, Bihar.
- Chaired a session on December 16, 2015 at International conference on Energy and Environmental Impact on Biodiversity and Sustainable Development held between December 15-17, 2015 at BRAB University, Muzaffarpur, Bihar.
- Chaired the opening session of the Round Table discussion on **Renewable Energy as Sustainable Alternative organized** by Centre for Environment and Energy Development(CEED) and OXFAM India on March 17, 2016 at Ranchi.
- Delivered an **Invited talk** on **Solar energy–The future source of power** (Phase Complexation and Nanostructuration of New Generation Solar-active Nanomaterials) for the executives of Electronics Division, BHEL, Bangalore on April 16, 2016.

##### Dr. Basudev Pradhan

- Dr. Basudev Pradhan is an **editorial board member** of *Springer Journal, Applied Physics A*.

## X. SCHOOL FOR NATURAL RESOURCE MANAGEMENT

### 3. Centre for Environmental Science



in National seminar on Recent advances in civil and Environmental engineering, held at BIT Mesra, Ranchi during 25-26 February 2016.

6. **Shashank Shree** presented a paper titled “Assessment of groundwater quality and generating water quality map using remote sensing and GIS in Patna region ” in National seminar on Recent advances in civil and Environmental engineering, held at BIT Mesra, Ranchi during 25-26 February 2016.
7. **Rahul Kumar** presented a paper titled “Identification of groundwater potential zones in upper Ramganga sub catchment, Uttarakhand, India using Remote sensing and GIS techniques” in National seminar on Recent advances in civil and Environmental engineering, held at BIT Mesra, Ranchi during 25-26 February 2016.

#### Book/Chapter in a Book:

1. Editors: Bhaskar Singh, Kuldeep Bauddh, Faizal Bux. *Algae & Environmental Sustainability*. Series: Developments in Applied Phycology. Springer India 2015. ISBN 978-81-322-2639-0; DOI 10.1007/978-81-322-2641-3.
2. Anil Kumar, Manoj Kumar, N.C. Mahanti. Land surface and micrometeorological processes over trough axis, 2015. ISBN: 978-3-659-50016-9, 2015 LAMBERT Academic Publication.
3. Dipesh Kumar, **Bhaskar Singh**, Kuldeep Bauddh, John Korstad. Bio-oil and Biodiesel as biofuels derived from microalgal oil and their characterization by using instrumental techniques. Chapter # 7, Page # 87-95. Editors: Bhaskar Singh, Kuldeep Bauddh, Faizal Bux. *Algae & Environmental Sustainability*. Series: Developments in Applied Phycology. Springer India **2015**. ISBN 978-81-322-2639-0; DOI 10.1007/978-81-322-2641-3
4. Dipesh Kumar, John Korstad, **Bhaskar Singh**. Life Cycle assessment of algal biofuels. Chapter # 14, Page # 165-181. Editors: Bhaskar Singh, Kuldeep Bauddh, Faizal Bux. *Algae & Environmental Sustainability*. Series: Developments in Applied Phycology. Springer India **2015**. ISBN 978-81-322-2639-0; DOI 10.1007/978-81-322-2641-3.
5. Abhishek Guldhe, **Bhaskar Singh**, Faiz Ahmad Ansari, Yogesh Sharma, Faizal Bux. Extraction and conversion of microalgal lipids. Chapter # 6, Page # 91-110. Editors: Faizal Bux and Y. Chisti. *Algae Biotechnology*. Springer International Publishing Switzerland **2016**. ISBN 978-3-319-12333-2; DOI 10.1007/978-3-319-12334-9\_6.
6. **Bauddh K.**, Sainger M., Kumar S., Sainger P.A., Jaiwal P. K., Singh R. P. 2016. Biotechnological Approaches to Mitigate Adverse Effects of Extreme Climatic Factors on Plant Productivity. In: Genetic Manipulation in Plants for Mitigation of Climate Change. PK Jaiwal, RP Singh and OP Dhankhar (Eds) pp 187-203. **Publisher: Springer**
7. Chakravarty P., **Bauddh K.**, Kumar M. 2015. Remediation of dyes from aquatic ecosystems by biosorption method using algae. In: *Algae and Environmental Sustainability*, Developments in Applied Phycology 7. B. Singh, K. Bauddh and F. Bux (eds.) pp: 97-106. DOI 10.1007/978-81-322-2641-3\_7. **Publisher: Springer**
8. Kumar D., Singh B., **Bauddh K.**, Korstad J. 2015. Bio-oil and biodiesel as biofuels derived from microalgal oil and their characterization by using instrumental techniques. In: *Algae and Environmental Sustainability*, Developments in Applied Phycology 7. B. Singh, K. Bauddh and F. Bux (eds.) pp: 87-95. DOI 10.1007/978-81-322-2641-3\_7.

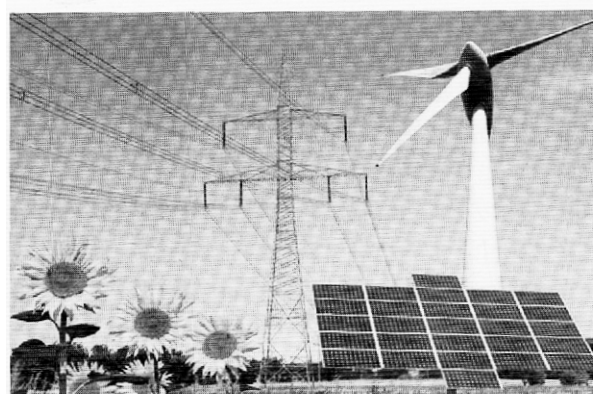




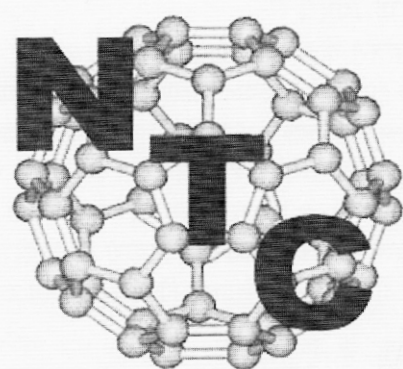
## XI. SCHOOL OF ENGINEERING AND TECHNOLOGY

The School of Engineering and Technology has three Centres, viz.

1. *Centre for Energy Engineering*
2. *Centre for Nanotechnology*



1. Centre for Energy Engineering



2. Centre for Nanotechnology



## XI. SCHOOL OF ENGINEERING AND TECHNOLOGY

### 1. *Centre for Energy Engineering*

#### A. Mission Statement:

Energy, the elixir of human existence and catalyst for the development of a Nation, being consumed at faster rate than ever, consequently, leading to both depletion of fossil-fuel based resources and deterioration of global environment, calls for a concerted effort to develop different/diverse sustainable energy technologies like solar and its derivatives; to evolve efficient energy technology strategies; to implement the best energy conservation practices; and to produce highly skilled manpower in the field of Energy Engineering through world class teaching and research resources and infrastructure.

#### B. About the Centre:

The Centre for Energy Engineering (CEE) came into existence in July 2011 under the school of Engineering and Technology. The centre is committed to the mission and goals of the University for not only Teaching and Research but also overall development of the region and the country by emphasizing on the need of renewable energy technologies and their applications for the common masses. The centre is currently offering five years integrated M. Tech. program as well as PhD program in Energy Engineering. The first batch of integrated M. Tech. with a strength of 36 students from different parts of the country passed out in 2016. The centre is in the process of developing new high quality research facility on Energy Engineering under a development and innovation-friendly environment for nurturing and promoting novel ideas with intensive interaction and co-operations at all levels. The Centre of Excellence in Green and Efficient Energy Technology to be established with funding under FAST scheme of Ministry of Human Resources and Development, Government of India is a step in that direction.

#### C. Academic Programmes:

- Five Year Integrated M. Tech. in Energy Engineering
- Ph. D. Programme

#### D. Regular Faculty:

- Dr. Sanjoy Kumar Samdarshi, Professor
- Dr. Basudev Pradhan, Assistant Professor
- Dr. Sachin Kumar, Assistant Professor
- Er. Bishnu Mohan Jha, Assistant Professor
- Er. Partha Sarathi Panja, Assistant Professor

#### Guest Faculty:

- Mr Amit Kumar, Guest Faculty
- Mr. Avnish Kumar, Guest Faculty
- Mr. Vishal Kumar Gupta, Guest Faculty
- Mr Kartikesh Kumar Jha, Guest Faculty

**Centre Head:** Prof. S K Samdarshi

#### E. Research and Development Projects:

- Establishment of *Center for Excellence in Green and Efficient Energy Technology (CoE-GEET)* under *FAST scheme* of Ministry of Human Resources Development, New Delhi at Central University of Jharkhand, Ranchi(2014-contd.); S K Samdarshi (Coordinator and PI), B Pradhan(Co-PI), Sachin Kumar(Co-PI)