

ACADEMIA



FACULTY PROFILE

Central University of Jharkhand, Ranchi
(Established by an Act of Parliament of India, 2009)



ज्ञानात् हि बुद्धि कौशलम्
Knowledge to Wisdom



Publishers

Central University of Jharkhand
Brambe, Ranchi - 835205

Chief Patron

- Prof. Nand Kumar Yadav 'Indu'
Vice-Chancellor, CUJ

Advisor

- Prof. S.L. Hari Kumar
Registrar, CUJ

Editors

- Dr. Devdas B. Lata, Associate Professor, Department of Energy Engineering
- Dr. Gajendra Prasad Singh, Associate Professor, Department of Nano Science and Technology
- Mr. Rajesh Kumar, Assistant Professor, Department of Mass Communication

From the Vice Chancellor's Desk...



It's a matter of immense pride that the faculty of our Central University of Jharkhand are not only teachers of repute but also excellent researchers. They have received national and international recognition and awards for their widely acclaimed papers and works. Their scholarly pursuit reflect the strength of the University and provide ample opportunities for students to carry out their uphill tasks and shape their career. The endeavour of the faculty members to foster an environment of research, innovation and entrepreneurial mindset in campus gives a fillip to collaborate with other academic and other institutions in India and abroad. They are continuously on a lookout for opportunities to create, enrich and disseminate the knowledge in their chosen fields and convert to the welfare of the whole humanity. Continuous introspection and assessment of teaching research and projects add on devising better future planning and innovations. Training and mentoring of students and scholars helps to create better, knowledgeable and responsible citizens of India.

I hope this brochure will provide a mirror of strength of CUJ for insiders and outsiders.

Best wishes

Prof. Nand Kumar Yadav 'Indu'

From the Registrar's Desk



In a globalized world, the role of research in an academic institution is significant for its sustainability and development, and it is imperative to have knowledge-driven growth based innovation.

Our University faculty members undertake research, teaching, and service roles to carry out the academic work of the University. Each of these roles enables our faculty members to generate and disseminate knowledge to peers, students, and external audiences.

The faculty at CUJ possesses national and international recognition and awards for their widely acclaimed research attainments. The dedication of the faculty members to encourage research and innovation invite collaboration with national and international academic institutions of repute.

I expect, this faculty profile will definitely reflect the academic strength and research activities being undertaken at Central University of Jharkhand.

A handwritten signature in black ink, appearing to be 'Ranjana' or similar, written in a cursive style.

Registrar

From the Editor's Desk



Dr. D.B. Lata
Associate Professor
Department of Energy Engineering
Chairman, Training and Placement Cell
In-charge, Research and Development



Dr. G. P. Singh
Associate Professor & Head
Department of Nano Science &
Technology



Mr. Rajesh Kumar
Assistant Professor
Department of Mass Communication
NCC Officer, CUJ

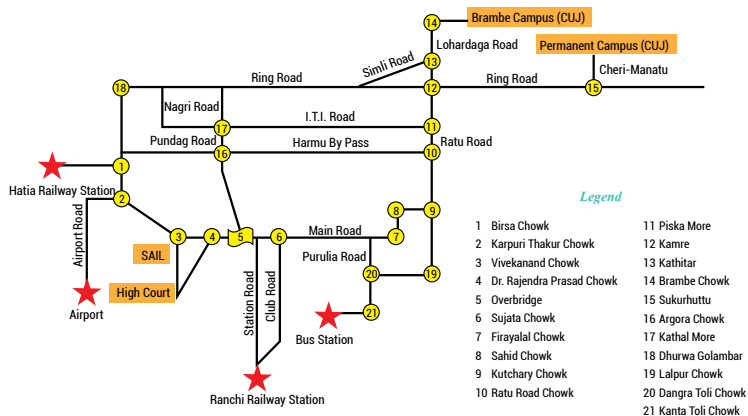
It gives us immense pleasure in presenting a special issue '**ACADEMIA : Faculty Profile of Central University of Jharkhand**' being published under the visionary leadership of our honorable Vice Chancellor. It is an effort for portraying our strength, introspecting opportunities and exploring new heights in the domain of global academia and research.

We are thankful to our honorable Vice Chancellor for entrusting this visionary assignment upon us and to all the teaching fraternity for their persistent support and cooperation.

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Locale and Whereabout



Address : Central University of Jharkhand,
Ratu-Lohardaga Road, Brambe, Ranchi-835205, India, www.cuj.ac.in



Wavering Outline of Central University of Jharkhand





INTRODUCTION

The Central University of Jharkhand came into being under the Central Universities Act, 2009 promulgated by the President of India on 1st 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.

VISION

The vision of the University 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.

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.

OBJECTIVES

The objectives of the University are to:

- Disseminate and advance knowledge by providing instructional and research facilities in various disciplines
- 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.





SCHOOL OF NATURAL SCIENCES

Department of Physics

Department of Chemistry

Department of Life Sciences

Department of Mathematics

**Department of Computer Science &
Technology**



DEPARTMENT OF PHYSICS

The Department of Physics (formerly Centre for Applied Physics) was started in July 2010 with five year integrated program in Applied Physics. The department started functioning with the following goals to provide programs of study in applied physics with a strong engineering emphasis relevant to the local as well as regional industries, aiming at producing versatile graduates who command a range of generic, technical, professional skills to function flexibly in a variety of job positions. The research interests of the faculty members cover broad range of physics: Condensed Matter Physics, Lasers and Photonics, High Energy, Theoretical and Mathematical Physics. The department is planning to establish the state-of-the-art research laboratories and computational facilities.



Dr. Sarang Medhekar
Professor

Qualification

Ph.D. in Physics
Title - Guided Laser Beams in Nonlinear Media
M.Sc. In Physics

Experience - 20 Years

Specialization

Fibre Optics, Laser, Optical Communication

Research Areas

Photonic Devices, Optical Solitons, Applied Optics

Research Guidance Total - 5

- Man Mohan Gupta, 2013, Investigation of Light Propagation through Photonic Crystals (PCs) for All-Optical Devices and Components (Awarded)
- Alok Kumar, 2015, (ongoing) Investigation of photonic crystal based optical devices and components for all optical switching

Research Project Total - 5

Modeling and Analysis of All-Optical Switching Devices based on waveguide and Photonic Crystal geometry, Funding Agency - DST, Funding Amount 24,15,120/-, Duration - 2013-16

Publications (Journals) Total-47

- R. K. Choubey, **S. Medhekar**, R. Kumar, S. Mukherjee S. Kumar, Study of nonlinear optical properties of organic dye by Z-scan technique using He-Ne laser, J Mater Sci: Mater Electron, 2014, DOI 10.1007/s10854-014-1743-3
- M. M. Gupta and **S. Medhekar**, Switching Behavior of Nonlinear Mach-Zehnder Interferometer Based on Photonic Crystal Geometry, Pramana, 82, 6, 2014
- M. M. Gupta and **S. Medhekar**, A versatile optical junction

using photonic band-gap guidance and self-collimation Applied Physics Letters, Applied Physics Letters, 2014, doi: 10.1063/1.4896622

- S. Prasad, R. K. Sarkar, **S. Medhekar**, Coupled tapering/uptapering of dark soliton pair in nonlinear media Optik-International Journal for Light and Electron Optics, Optik-International Journal for Light and Electron Optics, 126, 2015.
- A. H. Arnous, Md. Mirzazadeh, S. Moshokoa, **S. Medhekar**, Q. Zhou, M. F. Mahmood, A. Biswas and M. Belic, Solitons in optical metamaterials with trial solution approach and Backlund transform of Riccati equation, Journal of Computational and Theoretical Nanoscience, 12, 2015.

Patents

(Awarded - 4)

- Mechanical load stabilizer with load dependent stepless gear ratio variation system, Funding Agency - Inventor - Sarang Medhekar (patented by NRDC), Patent No. 223097, Application No. 3118/DEL/1997, Year - 04-09-2008
- Extraction of one beam from a mixture of two coaxially co-propagating mutually incoherent beams of same frequency, Extraction of Data Bits loaded on one coherent beam mixed with the Data Bits loaded on another coherent beam of same frequency and Coherence Division Multiplexing,
- Patent No. 261064, Application No. 1192/KOL/2007, Patented by BIT, Mesra Year - 02 June 2014
- All-Optical Not/Xor, and Nand Gates, All Optical Bistable, Astable Multivibrators And All Optical Half Adder Using Novel All Optical Switching in a Mach-Zehnder Interferometer, Patent No. 296862, Application No. 791/KOL/2007, Patented by BIT, Mesra Year - 17 May 2018
- All-Optical Passive Transistor Adapting A Mach-Zehnder Interferometer, Patent No. 304332, Application No. 1044/KOL/2008, Patented by BIT, Mesra Year - 12 December 2018

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Dr. Dharmendra Singh

Assistant Professor

Qualification

Ph.D. in Physics

Title - Study Of Complete and Incomplete Fusion of ^{16}O and ^{20}Ne Ions in Some Nuclei below 10MeV/Nucleon Energies

M.Sc. In Physics

Post Doc in Experimental Nuclear Physics from Inter University Accelerator Centre, New Delhi

Title - Role of target deformation on incomplete fusion dynamics in energy range 3-8 MeV/nucleon

Experience - 10 Years

Specialization

Experimental Nuclear Physics, Nuclear Instrumentation, Accelerator Physics.

Research Areas

Whight & Heavy Ion Induced Reactions, Incomplete Fusion dynamics, Fusion Fission dynamics

Research Guidance

- Sneha Bharti Linda, 2013, Study of Complete and Incomplete Fusion Dynamics Induced by Heavy Ions Above the Coulomb Barrier
- Pankaj Kumar Giri, 2014 Investigation of Break-up Fusion and Its Dependency on Target Deformation at Energies 3-7 MeV/nucleon
- Amritraj Mahato, 2016, Probing of Incomplete Fusion and Fusion-Fission Dynamics Induced by Heavy Ions at Energies Above the Coulomb Barrier

Research Project

- Role of target deformation on incomplete fusion dynamics in energy range 3-8 MeV/nucleon
Funding Agency - Department of Science and, Technology (DST), New Delhi,
Amount - Rs 23.3 lacs, Duration - 2011-14
- Study of Complete and Incomplete Fusion Dynamics by Using Heavy Ion Beams
Funding Agency - UGC, New Delhi.
Funding Amount - Rs 6 lacs, Duration - 2013-15

- Role of Target Deformation on Incomplete Fusion dynamics during heavy Ion Collisions, Funding Agency - IUAC, New Delhi,
Funding Amount - Rs 6.75 lacs, Duration - 2013-17

Publications (Journals) Total - 37

- **D. Singh**, S. B. Linda, P. K. Giri, A. Mahato, R. Tripathi, H. Kumar, M. A. Ansari, N.P.M.Sathik, R. Ali, R. Kumar, S. Muralithar, R.P. Singh, Spin distribution of evaporation residues formed in complete and incomplete fusion in $^{16}\text{O} + ^{154}\text{Sm}$ system, Physics Letters B, Volume 774, 2017, Publisher - Elsevier, ISSN-0370-2693, UGC Indexed No. 30839
- **D. Singh**, S. B. Linda, P. K. Giri, A. Mahato, R. Tripathi, H. Kumar, M. A. Ansari, N.P.M.Sathik, R. Ali, R. Kumar, S. Muralithar, and R.P. Singh, Role of input angular momentum and target deformation on the incomplete-fusion dynamics in the $^{16}\text{O} + ^{154}\text{Sm}$ system at $E_{lab} \approx 6.2$ MeV/nucleon, Physical Review C, Volume 97, 2018, Publisher - American Physical Society, ISSN-0556-2813, 1089-490X, UGC Indexed No. 30795
- **D. Singh**, S. B. Linda, P. K. Giri, A. Mahato, R. Tripathi, H. Kumar, S. A. Tali, S. Parashari, A. Ali, R. Dubey, M. A. Ansari, R. Kumar, S. Muralithar, and R.P. Singh, Measurement of excitation functions of evaporation residues in the $^{16}\text{O} + ^{124}\text{Sn}$ reaction and investigation of the dependence of incomplete fusion dynamics on entrance channel parameters, Physical Review C, Volume 97, 2018, Publisher - American Physical Society, ISSN-0556-2813, 1089-490X, UGC Indexed No. 30795
- **D. Singh**, P. K. Giri, A. Mahato, S. B. Linda, H. Kumar, M. A. Ansari, R. Ali, S. A.Tali, M. H. Rashid, R.Guin and S. K. Das, Probing of incomplete fusion dynamics and its correlation with various systematic, Nuclear Physics A, Volume 981, 2019, Publisher - Elsevier, ISSN-0375-9474, 1873-1554, UGC Indexed No. 27013
- H. Kumar, S. A. Tali, M. A. Ansari, **D. Singh**, R. Ali, Asif Ali, S. Parashari, Pankaj K. Giri, S. B. Linda, R. Kumar, R. P. Singh, and S. Muralithar, Systematic study of incomplete-fusion dynamics below 8 MeV/nucleon energy, Physical Review C, Volume 99, 2019, Publisher - American Physical Society, ISSN-0556-2813, 1089-490X, UGC Indexed No. 30795.

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DEPARTMENT OF PHYSICS



Dr. Avijit Ghosh
Assistant Professor

Qualification

Ph.D., IIT Kharagpur

Title : Defects Mediated Optical Properties of ZnO Based Nanostructures,

M.Sc (Physics), B.Ed., Vidyasagar University

Post Doc - (Energy Science) from da Universidade do Porto, Portugal

Title : Investigation of Piezoelectric ZnO-based Nanowires for Nanogenerators

Experience - 9 Years

Specialization

Nanoscale Physics, Material Science, Experimental Physics

Research Areas

Semiconductor Nanostructures, Photovoltaics and Nanogenerators, Multiferroics and Solid Oxide Fuel Cells

Research Guidance

- Rohitash Upadhyay, JRF under DST-CERI project, to be registered in CUJ

Research Project

Investigation of Compositional Engineering for Efficient Perovskite Solar Cells

Funding Agency - DST under CERI program

Funding Amount - Rs 99.642 Lakh

Duration - 2016-19

Publications (Journals)

Total - 14

- C. Rodrigues, A. Gomes, **A. Ghosh**, A. Pereira and J. Ventura, (2019) Power-Generating Footwear Based on a Triboelectric-Electromagnetic-Piezoelectric Hybrid Nanogenerator, Nano Energy, (accepted), Impact Factor: 13.62.
- T. Patri, P. Justin, P. D. Babuand, **A. Ghosh**, (2019), Analysis of Dielectric and Magnetic Phase Transitions in $\text{Yb}(\text{Fe}_{0.5}\text{Cr}_{0.5})\text{O}_3$ Bulk Perovskite, Applied Physics A:Materials Science and Processing, vol.125, pp.224 (1-12).
- D. S. Saini, **A. Ghosh**, S. Tripathy, S. K. Sharma, A. Kumar, and D. Bhattacharya, (2018), Improved Conductivity of Spark Plasma Sintered Ho-Substituted BaZrO_3 Electrolyte Ceramics for IT-SOFCs, ACS Applied Energy Materials, vol.1 No.7, pp.3469-3478.

- D. S. Saini, S. Tripathy, A. Kumar, S. K. Sharma, **A. Ghosh** and D. Bhattacharya, (2018), Impedance and Modulus Spectroscopic Analysis of Single Phase BaZrO_3 Ceramics for SOFC Application, Ionics, vol.24, No.4, pp.1161–1171.
- T. Patri, P. Justin, K. Prabahar and **A. Ghosh**, (2016) Raman and Dielectric Spectroscopic Analysis of Magnetic Phase Transition in $\text{Y}(\text{Fe}_{0.5}\text{Cr}_{0.5})\text{O}_3$ Multiferroic Ceramics, Ceramics International, vol.42, No.12, pp. 13834-13840.

Awards/Fellowships

- Erasmus Mundus LEADERS' scholarship on Post-Doctorate level funded by European Union at da Universidade do Porto, Portugal
- CSIR-UGC Senior Research Fellowship through NET and Institute Research Fellowship through GATE at IIT Kharagpur.
- University Gold Medal and Janardan Ghorai Memorial Endowment Medal for being 1st position in M.Sc. from Vidyasagar University.

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Dr. Vineet Kumar Agotiya
Assistant Professor

Qualification

Ph.D. in Physics

Title - Quarkonium suppression in nucleus-nucleus collisions

M.Sc. In Physics

M. Tech, Applied Optics

Experience - 07 Years

Specialization

Particle Physics, Electronics, Applied Optics

Research Areas -

Heavy quark physics, Quark gluon Plasma, Relativistic nucleus nucleus collisions and early universe

Research Guidance

- Indrani Nilima, 2014, Quarkonium Dissociation As A Probe Of Color Screening In Hot Qcd Medium



Research Project

- Some outlook of strongly interacting quark Gluon Plasma, Funding Agency - UGC-BSR, Funding Amount - Rs 6 lacs, Duration - 2014-16
- Study of quarkonium in Hot QCD medium using Quasi Particle Approach, Funding Agency - SERB Funding Amount - Rs 24.56 lacs, Duration - 2018-19

Publications (Journals)

Total - 11

- **V. K. Agotiya**, V. Chandra, M. Y. Jamal, and I. Nilima, Dissociation of heavy quarkonium in hot QCD medium in a quasiparticle model, PRD, Volume 94, 2016, ISSN 2470-0010 (print), UGC Indexed No. 30797
- I. Nilima and **V. K. Agotiya**, Dissociation of 1P states in hot QCD medium using quasi-Particle Model, PEPAN Letters, Volume 15, Issue 2, 2018, ISSN [ISSN 1814-5957] (Print), [ISSN 1814-5973] (Online), UGC Indexed No. 30849
- M. Y. Jamal, I. Nilima, V. Chandra, and **V. K. Agotiya**, Dissociation of heavy quarkonia in an anisotropic hot QCD medium in a quasiparticle Model, PRD, Volume 97, 2018, ISSN 2470-0010 (print) 2470-0029 (online), UGC Indexed No. 30797
- I. Nilima and V. K. Agotiya, Bottomonium suppression in nucleus nucleus collisions using effective fugacity quasi-particle model, Advances in High Energy Physics, Volume 8965413, 2018, Publisher - Hindawi Publishing Corporation, ISSN 1687-7357.

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Dr. Sanjay Gupta
Assistant Professor

Qualification

Ph.D., Saha Institute of Nuclear Physics, Jadavpur University
Title - Some Aspects of Correlation and Disorder in low dimensional transition
M.Sc. in Physics, Calcutta University
Post Doc/Research Associates - IACS, Kolkata, IMSC Chennai, S. N. Bose Centre, Kolkata, SINP Kolkata and IIT Delhi

Experience - 15 Years

Specialization -

Strongly correlated electron systems, Heterostructures, Superconductivity

Research Areas -

Metal-Insulator transition, Correlated interface, Superconductivity

Research Project

- UGC start up grant, Funding Agency - UGC

Publications (Journals)

Total-08

- T. Gupta, **S. Gupta**, Physics of Interface: Strongly correlated barrier with chemical modulation sandwiched between two metallic plane, Physica B, 449, 220-224 (2014), Physica B: Condensed Matter, Volume 449, pp.:220-224, 2014, Publisher Elsevier, ISSN 0921-4526, UGC Indexed No. 30753
- **S. Gupta**, S. Sil, B. Bhattacharyya, Effect of Fibonacci modulation on superconductivity, Journal of Physics: Condensed matter, 18, 1987-1997 (2006).
- T. Gupta, **S. Gupta**, Dimensional and temperature Dependence of metal insulator transition in correlated and disordered systems, Euro Physics Letters, 88, 17006 (2009).
- **S. Gupta**, T. Gupta, Physics of Interface: Mott insulator barrier sandwiched between two metallic plane, Solid State Communications (Fast Track Communication), 152, 53-55 (2012)
- **S. Gupta**, T. Gupta, Physics of Interface : Correlated barrier with deterministic disorder sandwiched between two metallic plane, Solid State Communications, 152, 878-882 (2012).

Awards/Fellowship

- Awarded Junior Research Fellowship at Saha Institute of Nuclear Physics, Kolkata through Joint entrance test conducted by Matscience, Harish Chandra Research Institute and Saha Institute of Nuclear Physics
- UGC-NET Junior Research Fellowship through NET

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DEPARTMENT OF PHYSICS



Dr. Jayanta Kumar Baral
Assistant Professor (UGC-FRP)



Dr. Sandeep Chaudhury
Assistant Professor (UGC-FRP)

Qualification

Ph.D (Physics) from Finland

Experience - 10 Years

Specialization -

Condensed Matter Physics (Experimental)

Research Areas -

Polymer and Organic Nano-Electronics; Floating Gate Memory devices; Photovoltaics; Sensors; Device Physics; Disorder Organic Semiconductors & Materials Science.

Publications (Journals)

Total-17

- H. S. Majumdar, **J. K. Baral**, R. Österbacka, O. Ikkala, & H. Stubb, "Fullerene-based Bistable Devices and Associated Negative-Differential-Resistance effect", *Organic Electronics* 06 (04), 188 – 192, (2005).
- **J. K. Baral**, H. S. Majumdar, A. Laiho, H. Jiang, E. I. Kauppinen, R. H. A. Ras, J. Ruokolainen, O. Ikkala, & R. Österbacka, "Organic Memory using [6,6]-phenyl-C61 butyric acid methyl ester (PCBM): Morphology, Thickness and Concentration Dependence Studies", *Nanotechnology* 19 (03), 035203, (2008).
- **J. K. Baral**, R. Izquierdo, M. Packirisamy, & V. -V. Truong, "Improved Polymer Solar Cell Performance by Engineering of Cathode Interface", *Euro. Phys. J. - Appl. Phys.* 55 (03), 30202, (2011).
- M. R. Beaulieu, **J. K. Baral**, N. R. Hendricks, Y. Tang, A. L. Briseño, & J. J. Watkins, "Solution Processable High Dielectric Constant (k) Nanocomposites based on ZrO₂ Nanoparticles for Flexible Organic Transistors", *ACS – Appl. Materials & Interfaces (AMI)* 05 (24), 13096–13103, (2013). Equal Contribution.
- **J. K. Baral**, A. Sharma, D. Wang, D. Ma, V. -V. Truong, & R. Izquierdo, "Enhanced Photovoltaic Conversion Efficiency in Bulk Heterojunction Solar Cells upon Incorporating Nanohybridized PbS Quantum Dots/ Multiwall Carbon Nanotubes", *Euro. Phys. J. - Appl. Phys.* 65 (01), 10201, (2014).

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Qualification

Ph.D, Jadavpur University, Kolkata

Post Doc - Department of Electrical Engineering, University of South Carolina, USA

Research Officer, Department of Physics, University of Surrey, UK

Experience - 10 Years

Specialization -

Experimental Condensed Matter Physics

Research Areas -

Experimental Condensed Matter Physics, Semiconductor Detector Fabrication and Characterization, Digital Signal Processing.

Publications (Journals)

Total-26

- S. Das, **S. K. Chaudhuri**, and K. C. Mandal, "Deep Level Studies in High-Resistive Gallium Phosphide Single Crystals," *ECS Journal of Solid-State Science and Technology*, 5(4), 3059, 2016.
- K. C. Mandal, **S. K. Chaudhuri**, K. V. Nguyen, and M. A. Mannan, "Correlation of deep levels with detector performance in 4H-SiC epitaxial Schottky barrier alpha detectors," *IEEE Transactions on Nuclear Science*, 61 (4), 2338, 2014.
- M. A. Mannan, **S. K. Chaudhuri**, K. V. Nguyen, K. C. Mandal, "Effect of Z1/2, EH5, and Ci1 deep defects on the performance of n-type 4H-SiC epitaxial layers Schottky detectors: Alpha spectroscopy and deep level transient spectroscopy studies," *Journal of Applied Physics* 115 (22), 224504, 2014.
- S. Das, **S. K. Chaudhuri**, R. N. Bhattacharya, K. C. Mandal, "Defect levels in Cu₂ZnSn(SxSe1-x)₄ solar cells probed by current-mode deep level transient spectroscopy," *Appl. Phys. Letters* 104(19), 192106, 2014.
- **S. K. Chaudhuri**, K. Nguyen, R. O. Pak, L. Matei, V. Buliga, M. Groza, A. Burger, K. C. Mandal, "Large Area Cd_{0.9}Zn_{0.1}Te Pixelated Detector: Fabrication and Characterization," *IEEE Transactions on Nuclear Science*, 61 (2), 793, 2014.

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The Department of Chemistry (formerly Centre for Applied Chemistry) was started in July 2010 under the School of Natural Science, which offers Two years M.Sc. programme in Chemistry. The department is facilitating 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 department 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.



Dr. R. K. Dey
Professor

Qualification

Ph.D. in Chemistry
Title - Polymer in Adsorption application
Post Doctoral in Chemistry from University of Campinas, Brazil
M.Sc. In Physical Chemistry
Title - Calorimetric Investigation of Adsorption studies on Mesoporous silica

Experience - 20 Years

Specialization

Thermodynamics, Kinetics, 3. Equilibrium

Research Areas

Surfaces Chemistry, Biomaterial, Water Treatment

Research Guidance

- Prajna Mishra, 26-09-2013, Synthesis & biomedical applications of some natural synthetic
- Simpi Bhawna Patel, 24-09-2013, Defluoridation of aqueous solution using hydride sorbents: Synthesis and batch adsorption studies
- Neha Singh, 19-08-2014, Development of Grapheme based Au-TiO₂ ternary nanocomposites for photocatalytic applications.
- Koomkoom Khawas, 18-09-2015, Synthesis of end functionalized poly(3-hexyl thiophene)(P3HT) using simple methodology and studies of some conducting polymer based nanocomposites
- Subhashree Mishra, 15-09-2016, Development of new catalyst for oxidation reaction

Research Project

- Fluoride Removal Using New Hybrid Polymeric Materials, Funding Agency - UGC, Funding Amount - 15 Lakhs,

Duration - 3 years, 2014-2017

Publications (Journals)

Total - 23

- P. Mishra, **R. K. Dey**, Development of Docetaxel -loaded PEG-PLA nanomaterial using Surfactant -free method for controlled release studies, 2018, In. J. of Polymeric Materials and polymeric Biomaterials, Volume - 67(9), Publisher - Taylor & Francis, ISSN - 0091-4037
- P. Mishra, **R. K. Dey**, Co-delivery of docetaxel and doxorubicin using biodegradable PEG-PLA micelles for treatment of breast cancer with synergistic anti-tumour effects, 2018, J. Macromol. SCI., Part A: Pure and Applied Chemistry, Volume - 55(3), Publisher - Tylor & Francis, ISSN - 1060-1325
- A. Barik, T. Patnaik, P. Parhi, S. K. Swain, **R.K. Dey**, Synthesis and characterization of new shellac-hydroxypropylmethylcellulose composite for pharmaceutical applications, 2017, Polymer Bulletin, Volume - 74(9), Publisher - Springer, ISSN - 1436-2449
- S. B. Patel, S. K. Swain, U. Jha, T. Patnaik, **R. K. Dey**, Development of new zirconium loaded shellac for defluoridation of drinking water: Investigations of kinetics, thermodynamics and mechanistic aspects, 2017, J. Environmental Chemical Engineering, Volume - 4(4), Publisher - Elsevier, ISSN - 2213-3437
- P. Mishra, B. Nayak, **R. K. Dey**, PEGylation in anti-cancer therapy: An overview, 2016, Asian J. Pharmaceutical Sci., Volume - 11(3), Publisher - Elsevier, ISSN - 1818-0876

Publications (Book/Chapters)

Total - 01

- G. P. Singh, N. Singh, **R. K. Dey**, K. Prasad, Hydrothermal synthesis of hybrid nanoparticles for future directions of renewal energy applications, 2018, Hydrothermal synthesis of hybrid nanoparticles for future directions of renewal energy applications, Editors - Mu. Naushad, Saravanan Rajendran, Francisco Gracia, Publisher - Springer, 2213-7122

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DEPARTMENT OF CHEMISTRY



Dr. Arun Kumar Padhy
Associate Professor

Qualification

Ph.D. in Chemistry, Berhampur University, Odisha
Title - Studies on synthesis and biological activity of some nitrogen heterocycles
M.Sc. in Chemistry, Berhampur University, Odisha

Experience - 23 Years

Specialization -

Organic Chemistry, Organic Reaction and Mechanism, Photochemistry and Pericyclic Reactions

Research Areas -

Heterocyclic Chemistry, Organic Material, DSSC

Research Guidance

- Dr. Nadish Saba, 2013, Synthesis and reactivity of some nitrogen heterocycles as probable sensor
- Benjamin Raj, 2014, Studies on synthesis and applications of metal oxide nanoparticles from imidazole based organic precursor

Publications (Journals)

Total - 21

- **A.K. Padhy**, A.K. Mishra, M. Mohapatra, A.K. Pati, S. Mishra, Photoinduced solid state keto-enol tautomerization of 2-(2-(3-nitrophenyl)-4, 5-diphenyl-1 H-imidazol-1-yloxy)-1-phenylethanone, 2014, RSC Advances, Volume - 4, Issue - 16, Publisher - Royal Society of Chemistry, UK, ISSN - 2046-2069, UGC Indexed No. 591/23625
- N. Saba, J. Swain, R.K. Dey, **A.K. Padhy**, pH-induced reversible molecular self-assembly of perylene based imidazolium ester: a probable marker for biological species, 2018, Indian Journal of Biochemistry and Biophysics, Volume - 55, CSIR-NISCOM, ISSN - 0301-1208/0975-0959, UGC Indexed No. 1104/20723
- B. Raj, R. Oraon, **A. K. Padhy**, Simple and cost-effective sonochemical preparation of ternary NZnO-Mn₂O₃@rGO nanohybrid: a potential electrode material for supercapacitor and ammonia..., 2019, Ionics, doi:10.1007/s11581-019-02903-y, Publisher - Springer, UGC Indexed No. 0947-7047 /1862-0760, 8853

Publications (Book/Chapters)

Total - 01

- A. K. Panda, **A. K. Padhy** & S. K. Tripathy, Material

Science & Engineering, 2009, Publisher - Scitech, ISBN - 9788183710909,

Awards/Fellowship

- Shastri-Indo Canada Faculty mobility program
- Young Scientist. Orissa Chemical Society
- Prof. R.K. Nanda best paper presentation, Orissa Chemical Society

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Dr. Partha Ghosh
Assistant Professor

Qualification

Ph.D. in Chemistry/ Rutgers University, USA
Title - New Methods and Strategies Towards
MS in Chemical Sciences
Post Doc in Medicinal Chemistry/ University of Kansas, USA

Experience - 11 Years

Specialization

Organic Chemistry, Medicinal Chemistry, Synthetic Methodology

Research Areas

Organic Chemistry, Green Chemistry, Medicinal Chemistry

Research Guidance

- Saurabh Kumar Singh, 2018, Development of Novel Green Synthetic methods and their application
- Anusueya Kumari (Co-Guide), 2016, Total synthesis of biologically active illudalane class of sesquiterpenes.

Research Project

- Development of green synthetic methods, Funding Agency - UGC, Funding Amount - 6 Lakh, Duration - 2015-2018
- Transformation of N-heterocycles involving, a cascade of reductive amination, grobe-type fragmentation and mannich reaction, Funding Agency - DST, Amount - 29.1 Lakh, Duration - 2015-2018

Publications (Journals)

- **P. Ghosh**, catalized air-oxidative fragmentation of the



carbon-carbon bond in 2-aryl-1-tetralones. ACS Omega, 2019, 4, 8065-8070

- S. R. Slauson, R. Pemberton, **P. Ghosh**, Dean J. Tantillo and J. Aube, Domino Acylation/Diels Alder Synthesis of N-alkyl-octahydroisoquinoline-1-one-8-carboxylic acid under low solvent condition, 2015, Journal of Organic Chemistry, Volume - 80, Issue - 10, Publisher - American Chemical Society, ISSN - 223263, UGC Indexed No. 25023

Publication (Book/Chapters)

- **P. Ghosh**, Novel methods and strategies towards erythronolide synthesis, 2014, Publisher - Scholar's Press, ISBN - 9783639661798

Patent

- Substituted imidazopyridines as hdm2 inhibitors, Merck Inc, USA, 2014
- Synthesis of functionalized octahydro-isoquinolin-1-one-8-carboxylic esters and analogs, and therapeutic methods, NIH, USA, 2014

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Dr. Raj Bahadur Singh
Assistant Professor

Qualification

Ph.D. in Organic Synthesis
Title - "Molecular Complexity from Aromatics: Studies on Synthesis of [m.n.o] propellanes, Spiro[m.n]ring systems and framework of Conidiogenol"
M.Sc. In Chemistry

Experience - 17 Years

Specialization -

Organic Synthesis, Natural Product Chemistry, New reaction methodology

Research Areas -

Total Synthesis of Illudalanes, Reaction Methodology, Asymmetric Synthesis

Research Guidance

- M. Suresh, 2014, Total Synthesis of Naturally occurring Illudalanes

- Anusueya Kumari, 2016, Total Synthesis of Biologically Active Illudalane class of Sesquiterpenes

Research Project

- Synthesis of biologically active illudalane class of natural products (Project No. SB/FT/CS-045/2013), Funding Agency - DST, Funding Amount - 24.53 Lakhs, Duration - 2014-2017
- Total synthesis of cytotoxic, antiviral sesquiterpenoids, Funding Agency - SERB, DST, Funding Amount - 26.4 Lakhs, Duration - 2018-2021

Publications (Journals)

Total - 6

- M. Suresh, N. Kumar, G. Veeraraghavaiah, S. Hazra, and **R. B. Singh**, Total Synthesis of Coprinol, 2016, Journal of Natural Products, Volume - 79, Issue - 10, Publisher - American Chemical Society, ISSN: 0163-3864, 2581, Web Edition ISSN - 1520-6025
- M. Suresh, A. Kumari, D. Das, **R. B. Singh**, Total Synthesis of Onitin, 2018, Journal of Natural Products, Volume - 81, Issue - 9, Publisher - American Chemical Society, ISSN - 0163-3864, 2581

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Dr. Sabyasachi Bhunia
Assistant Professor

Qualification

Ph.D. in Chemistry, National Tsing Hua University, Taiwan
Title - Discovery of New Carbocyclizations Involving Activation of C-C Multiple Bonds by Electrophilic Noble Metals
M.Sc. In Chemistry, Jadavpur University

Experience - 16 Years

Specialization -

Organic Chemistry, Organometallic Chemistry, TM-catalyzed organic transformation

Research Areas -

Organic Methodology, Metal carbenoid induced organic transformation, 3 New Carbo- and heterocyclizations Involving Activation of C-C Multiple Bonds C-C Multiple Bonds



DEPARTMENT OF CHEMISTRY

Research Guidance

- Snigdha Rani Patra, 2018, Transition Metal Catalyzed Organic Transformations Involving Activation of C-C Multiple Bonds

Research Project

- Rapid access to synthetically useful complex carbo - and heterocycles through cascade reactions and continuous flow microreactor processes, Funding Agency - SERB, Funding Amount - 38.94 Lakh, Duration - 2017-2020
- Organic Transformations Involving Activation of C-C Multiple Bonds, Funding Agency - UGC, Funding Amount - 6 Lakh, Duration - 2018-2020

Publications (Journals)

Total - 6

- S. K. Pawar, C. Wang, **S. Bhunia**, A. M. Jadhav & R. Liu, Gold-Catalyzed Formal Cycloaddition of 2-Ethynylbenzyl Ethers with Organic Oxides and α -Diazoesters. *Angew. Chem. Int. Ed.* 2013, 52, 7559.
- **S. Bhunia**, C. Chang, & R. Liu, Platinum-Catalyzed Oxoarylations of Ynamides with Nitrones. *Org. Lett.* 2012, 14, 5522.
- S. N. Karad, **S. Bhunia** & R. Liu, Retention of Stereochemistry in Gold-Catalyzed Formal [4+3]-Cycloaddition of Epoxides with Arenynamides. *Angew. Chem. Int. Ed.* 2012, 51, 8722.
- S. A. Gawade, **S. Bhunia**, & R. Liu, Intermolecular Gold-catalyzed Diastereoselective [4+3] Cycloaddition of 1,6-Enynes with Nitrones. *Angew. Chem. Int. Ed.* 2012, 51, 7835.
- **S. Bhunia** and R. Liu. Gold-catalyzed 1,3-Addition of a sp^3 -hybridized C-H bond to Alkenylcarbenoid Intermediate. *J. Am. Chem. Soc.* 2008, 130, 16488.

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Dr. Soumen Dey
Assistant Professor

Qualification

Ph.D. in Chemistry
Title - Chemistry of Porphyrinogen and Diphenyldipyrromethane as Versatile Ligand:
Eco-friendly Synthesis, Molecular Recognition Involving Host-

guest Binding and Reactivity with Transition metals
M.Sc. in Chemistry

Experience - 18 Years

Specialization -

Inorganic, Supramolecular, Environmental pollution

Research Areas -

Host-Guest signalling, Waste management, Detoxification of Heavy metals and dyes

Research Guidance

- Dr. Sambasivaiah, B., 2013, Studies of Pyrrole Based Ligands: Synthesis, Structure and Reactivity (Awarded)
- Roshni Kumari, 2015, Natural and Synthetic adsorbent for Removal of Toxic Dyes: Batch, Column and In-field Studies
- Jhilirani Mohanta, 2016, Synthesis and Application of Novel Adsorbents for Detoxification of Contaminated Water

Research Project

- Environmentally Clean Approach to Synthesize Porphyrinogen, a Potential Host-guest Sensor and Efficient Electron Reservoir, Funding Agency - DST-SERB, Funding Amount - 24.50 Lakh, Duration - 3 years, 2014-2017

Publications (Journals)

Total - 14

- R. Kumari, **S. Dey**, Synthesis of Porous Iron – Zirconium mixed oxide Fabricated Ethylene diamine composite for removal of Cationic dye, 2019, Desalination and Water Treatment, Publisher - Taylor & Francis, ISSN- 19443994, 12911 (Accepted)
- R. Kumari, **S. Dey**, A breakthrough Column Study for Removal of Malachite Green using Coco-peat, 2019, International Journal of Phytoremediation, Publisher - Taylor & Francis, ISSN - 15226514, 23355 (Accepted)
- B. Dey, L. Dipty, **S. Dey**, Efficient Removal of Malachite Green using Saal (Shorea robusta) Flower from Contaminated Water, 2018, International Journal of Green and Herbal Chemistry, Volume - 7, Issue - 2, Publisher - Scientific and Academic Publications, ISSN - 22783229, 43786
- R. Kumari, **S. Dey**, Facile Removal of Congo Red using Mahua (Madhuca longifolia) Seeds, A Low Cost Adsorbent, 2018, International Journal of Green and Herbal Chemistry, Volume - 7, Issue - 2, Publisher - Scientific and Academic Publications, ISSN - 22783229, 43786
- Sambasivaiah, B., R. Kumari, **S. Dey**, Synthesis of beta-octabromo Meso Tetracycloheptyl Porphyrinogen and its Application in Arsenic Removal, 2017, Journal of Applicable Chemistry, Volume - 6, Issue - 6, Publisher - Kaza Kalyani Sekhar, ISSN - 22781862, 62886

Publications (Book/Chapters)

Total - 3

- J. Mohanta, R. Xalxo, **S. Dey**, Efficient Removal of Malachite Green from Contaminated Water using Pyrolusite, 2019, Green Energy & Efficient Technology Materials, Publisher - Lap Lambert Academic Publishing, ISBN - 978-613-9-45755-7
- P. Bhagat, B. Dey, J. Mohanta, **S. Dey**, Methylene blue removal using Eucalyptus Leaves: A Low Cost Protocol towards Environmental Sustainability, 2019, Environmental Challenges and Sustainability, Publisher - Springer
- U. Ray, **S. Dey**, R. Sarma, Lupungutu: Exploring Relationships with Tribes and Waterbodies, 2016, Tribes in Contemporary India: Orality, Identity and Development, Publisher - Today & Tomorrow Printers and Publishers, ISBN - 81-7019-555-8

Awards/Fellowship

- Dr. D.S. Bhakuni memorial award (Young Scientist award) conferred by Indian Chemical Society, 2008.
- U. Annapurna & Satyanarayan memorial award (Young Scientific award) conferred by Indian Chemical Society, 2002,
- National Scholarship (Govt. of India)

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Simon Watre Sangma
Assistant Professor

Qualification

Ph.D. in Chemistry (Pursuing), University of Bayreuth
Title - Computational Investigation of the Coupling of Protonation and Reduction of Iron-Sulfur Proteins
M.Sc. in Chemistry, Indian Institute of Technology, Delhi

Experience - 6 Years

Specialization

Theoretical Chemistry, Computational Chemistry, Physical Chemistry

Research Areas -

Computational Chemistry, Computational Biochemistry, Cheminformatics





DEPARTMENT OF LIFE SCIENCES

The Department of Life Sciences (formerly Centre for Life Sciences) came into existence in 2010 with the aim of imparting knowledge in the entire fields of modern biology without the boundary of animal, plant, microbial systems fostering students to the life processes as fundamental science and imply this knowledge for the development of newer technologies and processes. The department is committed to serving the academic community and public at large through its outreach initiatives like basic and translational research in the field of food security, sustainable environmental development and health care. The Department is actively engaged in extensive interdisciplinary research programmes. The department is recipient of Grant form Department of Biotechnology, Government of India under BUILDER scheme which provide financial assistance to students, lab facility as well as research grant. Apart from this faculties of centre also receive research grant from DBT, DST and UGC.



Dr. Manoj Kumar
Associate Professor

Qualification

Ph.D. - Plant Biology specialized with Molecular Genetics and Plant Tissue Culture (Mass Scale Propagation of Litchi chinensis Through In Vitro Techniques).
MSc. in Botany

Experience - 14.2 years

Specialization

Plant Biotechnology specialized in molecular genetics and Plant Microbe interaction

Research Areas

Forest Molecular Genetics specialized in Secondary Cell Wall Dynamics – (Lignocellulosic ethanol)
Phytoremediation specialized in microbial mediated remediation of heavy metals (Pb, Co, Cr etc.)

Research Guidance

Total - 5

- Pooja Bhadrecha (2012-2017)
- Title: Functional characterization of rhizospheric microorganisms associated with plant systems growing under extreme climatic conditions”
- Shaiela Javeria (2013-2018)
- Title: Mechanistic approach of Trichoderma sp. As biocontrol agent against important soil borne pathogens of lentil (Lenseculinaris)
- Sonam Singh (2018 continuing) Course work is in progress

Research Project

DBT-BUILDER, Ministry of Science & Technology
Funding Amount Rs. 4.76 Crore (Ongoing)

Total - 3

Publications (Journals)

Total - 49

- **M. Kumar** et al., Plant cellulose synthesis: CESA proteins crossing kingdoms, Phytochemistry-2015
- **M. Kumar** et al., An efficient approach towards the bioremediation of copper, cobalt and nickel contaminated field samples, Jr. of Soil and Sediments-2016
- **M. Kumar** et al., Enhanced production of naphthoquinone metabolite (shikonin) from cell suspension culture of Arnebia sp. and its up-scaling through bioreactor, 3Biotech-2014
- **M. Kumar** et al., Characterization of Actinomycetes and Trichoderma spp. for cellulase production utilizing crude substrates by response surface methodology, Springer Plus-2014
- **M. Kumar** et al., Healthy Response from Chromium Survived Pteridophytic Plant- Ampelopterisprolifera with the Interaction of Mycorrhizal Fungus- Glomusdeserticola, Intl. J. of Phytoremediation-2013

Publications (Books 14/Chapters 12)

- P. Teotia, **M. Kumar**, and V. Kumar, Microbial Potential and Biofuel Production, 2019, Sustainable Green Technologies for Environmental, Editor - S. Shah et al. (eds.), Publisher - Springer Nature Singapore Pte Ltd., ISBN - 978-981-13-2771-1
- V. Kumar, **M. Kumar**, R. Prasad, (Eds.) Microbial Action on Hydrocarbons, 2018, Publisher - Springer Nature Singapore Pte Ltd., ISBN - 978-981-13-1840-5
- V. Kumar, **M. Kumar**, R. Prasad, (Eds.), Phytobiont and Ecosystem Restitution, 2018, Publisher - Springer Nature Singapore Pte Ltd., ISBN - 978-981-13-1187-1
- R. Prasad, V. Kumar, **M. Kumar**, S. Wang, (Eds.), Fungal Nanobionics: Principles and Applications, 2018, Publisher - Springer Nature Singapore Pte Ltd., ISBN - 978-981-10-8666-3,
- **M. Kumar**, E. Hassan, V. Kumar (Eds.) Saline soil based Agriculture by helotalerant misoghnihs, Publisher - Springer Nature Singapore Pte Ltd., ISBN - 978-981-13-8334-2.

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Dr. Ashish Sachan
Associate Professor

Qualification

Ph.D. (Applied Microbiology)

Bioconversion of 4-coumaric acid into 4-hydroxybenzoic acid and 3,4-dihydroxycinnamic acid by selected microorganisms

M.Sc. (Microbiology), M. Tech. (Applied Botany)

Experience - 12.9 years

Specialization - Microbial Biotechnology

Research Areas

Microbial Transformation, Microbial degradation of pollutants

Research Guidance

Total - 05

Research Project

- Bioprocess Development for efficient Triclosan Degradation (CSIR NO. 24 (030) / 16 / EMR II), Funding Agency - CSIR, Govt. of India, Funding Amount - 9 Lakhs, Duration -2016-19

Publications (Journals)

Total - 24

- P. Gupta, R. S. Singh, **A. Sachan**, A. S. Vidyarthi, A.Gupta (2012), A re-appraisal on intensification of biogas production. Renewable & Sustainable Energy Reviews. 16: 4908–4916. (IF: 9.184; Citation: 49)
- S. Mishra, **A. Sachan**, A.S. Vidyarthi, S. S. Ghosh, (2014)Transformation of ferulic acid to 4-vinyl guaiacol as a major metabolite: a microbial approach, Rev Environ SciBiotechnol13: 377-385 (IF: 5.716; Citation:14)
- P. Gupta, R. S. Singh, **A. Sachan**, A. S. Vidyarthi, A. Gupta, N. Tripathi (2012) Study on biogas production by anaerobic digestion of garden-waste. Fuel 95: 495-498. (IF: 4.908; Citation:14)
- **A. Sachan**, S. Ghosh, S. K. Sen, A.Mitra (2006) Co-production of caffeic acid and p-hydroxybenzoic acid from p-coumaric acid by Streptomyces caeruleus MTCC 6638. Appl Microbiol Biotechnol16: 1-8. (IF: 3.340;Citation: 31)
- S. Mishra, **A. Sachan**, S. S. Ghosh (2013) Production of natural value-added compounds: An insight into eugenol biotransformation pathway. Journal of Industrial Microbiology and Biotechnology. 40: 545-550. (IF: 3.103; Citation: 31)

Publications (Book -1 /Chapters - 3)

- K. Mukhopadhyay, **A. Sachan**, M. Kumar; Applications of Biotechnology for Sustainable Development (2017) SpringerNature; ISBN 978-981-10-5537-9, ISBN 978-981-10-5538-6 (eBook); DOI 10.1007/978-981-10-5538-6
- S. G. Sachan, **A. Sachan**, A. Mitra, S. Mishra, M. Kullu and A. S. Vidyarthi,Production of natural vanilla from ferulic acid using biotransformation tools (2018), Recent advances in Microbiology Vol. III, NC Gautam et al. (eds.), Nova Science Publisher, USA, ISBN: 978-1-53614-058-3
- N. Panjjar, S. G. Sachan, & **A. Sachan**; Biosurfactants: A Multifunctional Microbial Metabolite (2017), Microbial Applications Vol.2; pp. 213-229; Springer International Publishing AG 2017 V.C. Kalia (ed.), ISBN 978-3-319-52668-3, ISBN 978-3-319-52669-0 (eBook); DOI 10.1007/978-3-319-52669-0_12
- N. Panjjar, S. G. Sachan and **A. Sachan**; Biosurfactant Production by Pseudomonas fluorescens NCIM 2100 Forming Stable Oil-in-Water Emulsions (2017), Applications of Biotechnology for Sustainable Development; pp. 97-107; Springer Nature; K. Mukhopadhyay et al. (eds.), ISBN 978-981-10-5537-9, ISBN 978-981-10-5538-6 (eBook); DOI 10.1007/978-981-10-5538-6_13
- S. Mishra, N. Panjjar, **A. Sachan**, A. S. Vidyarthi & S. G. Sachan; Ferulic Acid Decarboxylase from Bacillus cereus SAS-3006: Purification and Properties (2017), Applications of Biotechnology for Sustainable Development; pp. 169-179; Springer Nature; K. Mukhopadhyay et al. (eds.), ISBN 978-981-10-5537-9, ISBN 978-981-10-5538-6 (eBook); DOI 10.1007/978-981-10-5538-6_20.

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DEPARTMENT OF LIFE SCIENCES



Dr. Praveen Kumar Sharma

Assistant Professor

Qualification

Ph D. Zoology/ Department of Zoology
Banaras Hindu University,
Title: Expression and regulation of Estrogen receptors in
cerebral cortex of Aging Mouse
M.Sc. in Zoology
Post Doctoral: University of Louisville, KY, USA
Area: Chemokine Biology

Experience - 14 Years

Specialization

Neurobiology, Molecular Biology, Metabolic Regulation

Research Areas

Neurobiology of Stress, Cell Signaling Transcription
Regulation

Research Guidance

- Shovit Ranjan, 2013, Role of Brain Derived Neurotrophic factor in type 2 Diabeties
- Manisha Pallavi, 2018

Research Project

- Molecular Biology of Type 2 diabetes pathology, Funding Agency - DBT, Duration - 2014-2019

Publications (Journals)

Total - 19

- S. Ranjan & **P.K. Sharma**, Association of Brain Derived Neurotrophic factor (BDNF) gene SNP G196A with type 2 Diabetes and obesity: A Meta-Analysis. Research Journal of Pharmacy and Technology 10 (12), 2017 A and V Publication; ISSN no. 0974-3618, UGC Indexed No. 10467
- P. Gupta, **P. K. Sharma**, H. Mir, R. Singh, N. Singh, G. H. Kloecker, J. W. Lillard Jr. & S. Singh. CCR9/CCL25 expression in non-small cell lung cancer correlates with aggressive disease and mediated key steps of metastasis. Oncotarget, 5(20); 2014 Impact Journals; ISSN no. 1949-2553; UGC Indexed No. 27388
- R. Singh, P. Gupta, **P. K. Sharma**, E. W. Ades, S. K. Hollingshead, S. Singh; J. W. Lillard Jr., Purification and characterisation of helper T cell epitopes from pneumococcal surface adhesin A. Immunology, 141, 2013; John Wiley & Sons Ltd ISSN no. 0019-2805; UGC Indexed No. 20628.

- C. P El-Haibi; **P. K. Sharma**, R. Singh; P. Gupta; D. D. Taub; S. Singh & J. W. Lillard Jr Differential G protein subunit expression by prostate cancer cells and their interaction with CXCR5. Molecular Cancer, 12 (2013). Biomed Central Ltd, ISSN no. 1476-4598, UGC Indexed no. 31542
- C.P. El-Haibi; R. Singh; **P. K. Sharma**; S. Singh and J. W. Lillard Jr., CXCL13 mediates prostate cancer cell proliferation through JNK signalling and invasion through ERK activation. Cell Proliferation 44 (4) 2011, Blackwell Publishing Ltd ISSN No. 0960-7722, UGC Indexed no. 5252.

Publications (Book/Chapters)

Total - 1

- M.K. Thakur, **P. K. Sharma** & S. Ghosh, Estrogen effects in the brain: Implications for aging and Alzheimer's Disease, Molecular and cellular Neurobiology, M K Thakur and S Prasad Narosa publishing House, ISBN 10: 817319582X2005

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Dr. Anil Kumar

Assistant Professor

Qualification

Ph.D. in Biotechnology
Title - Physiological and Molecular Basis of Toxin Production by the Blooms of Microcystis SPP.
M.Sc. In Biotechnology
Post Doc as DBT-Research Associate at Central Drug Research Institute, Lucknow, U.P., India
Title - Study of mycobacterial protein Rv3097c from Mycobacterium tuberculosis H37Rv and elucidation of its role in lipid metabolism and virulence

Experience - 10 Years

Specialization -

Microbiology, Molecular Biology, Biotechnology

Research Areas -

Biofertilizers, Bioremediation, Antimicrobials

Research Guidance

- Preeti Swarupa, 2013, Characterization of plant growth promoting bacteria and their tolerance to agrochemical-chlorpyrifos



- Vikram Pal Gandhi, 2014, Molecular analysis of mlrA gene containing bacteria isolated from microcystin infested water bodies
- Menka Kumari, 2018, Evaluation and formulation of plant growth promoting bacterial consortium
- Amit Kumar Gautam, 2013

Research Project

- BUILDER (Departmental), Funding Agency - DBT, Funding Amount - 4 crore, Duration -2014-2019

Publications (Journals) Total - 6

- A.K. Saxena, K.K. Roy, S. Singh, S.P. Vishnoi, **A. Kumar**, V.K. Kashyap, L. Kremer, R. Srivastava and B.S. Srivastava, Identification and characterization of small-molecule inhibitors of Rv3097c-encoded lipase (LipY) of Mycobacterium tuberculosis that selectively inhibit growth of bacilli in hypoxia, 2013, International Journal of Antimicrobial Agents, Volume - 42, Issue - 1, Publisher - Elsevier Science Bv, ISSN - 0924-8579, 2548
- P. Swarupa and **A. Kumar**, Impact of Chlorpyrifos on Plant Growth Promoting Rhizobacteria Isolated from Abelmoschus esculentus, 2018, J Pure Appl Microbiol, Volume - 12, Issue - 4, Publisher - Oriental Scientific Pub Co, ISSN - 0973-7510/2581-690X, 19449
- V.P. Gandhi and **A. Kumar**, Isolation and characterization of microcystin degrading bacteria from holy ponds in India, 2016, Int J Appl Sci Biotechnol, Volume - 4, Issue - 4, Publisher - SEM-Biotech Publishing, ISSN - 2091-2609, 45498
- **A. Kumar**, Swarupa, P., Gandhi, V.P. and Kumari, S, Isolation of Ethidium Bromide Degrading Bacteria from Jharkhand, 2017, Int J Appl Sci Biotechnol, Volume - 5, Issue - 3, Publisher - SEM-Biotech Publishing, ISSN - 2091-2609, 45498

Publications (Book/Chapters) Total - 3

- **A. Kumar**, R.P. Sinha, M.B. Tyagi, P. N. Jha, B. Pattanaik, V. K. Mishra and A. Kumar, Cyanotoxins: biotechnological potentials, 2006, Biotechnological Applications of Cyanobacteria, Editor - Kiran Singh, Academic World, Varanasi, India., ISBN - 81-903104-0-2
- **A. Kumar**, A.K. Rai, U.P. Shrivastava, M.B. Tyagi and A. Kumar, Microcystins, a novel class of toxin from cyanobacteria, 2011, Plant Genome: diversity, conservation and manipulation, Editors - Roy, B.K., Chaudary, B.R. and Sinha, R.P., Publisher - Narosa Publication Pvt. Ltd., New Delhi, ISSN - 976-81-8487-113-5
- **A. Kumar**, V.K. Kashyap and V.P. Gandhi, Tuberculosis: Pathogenesis, Diagnosis and Treatment., 2018, Trends in Life Science Research, Editors - Sinha R.P. and Shrivastava U.P., Publisher - Nova Science Publishers, Inc. New York, ISSN - 978-1-53613-241-0

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Dr. Rajakishore Mishra
Assistant Professor

Qualification

Ph.D. in Life Sciences
 Title - Involvement and identification of potent cell cycle regulators in oral squamous cell carcinoma
 M.Sc. In Zoology
 Post Doc, Texas A & M University, USA & Loyola University Chicago, USA.

Experience - 13 Years

Specialization -

Cell Biology / Biotechnology, Molecular Biology, Biochemistry

Research Areas -

Cell Biology, Cancer Biology, Drug resistance, Invasion/metastasis/ stemness

Research Guidance

- Dr. Manzar Alam, 2014, Identification of key apoptotic molecules and their upstream pathway/s causing cytotoxic drug induced chemo-resistance in human oral squamous cell carcinoma and targeting them for improved chemo-sensitization
- Dr. Kamdeo K. Pramanik, 2014, Role and regulation of matrix metalloproteinase-2 (MMP-2) and MMP-9 in chewing tobacco mediated human oral squamous cell carcinoma
- Tanushree, 2015, Identification of oral cancer stem cells (CSC) in invasive and chemo-resistant human oral tumour
- Nidhi Nath, 2017, Status of Wnt, GSK3-beta signaling in cervical cancer progression and resistance

Research Project

- Evaluation of therapeutic potential of glycogen synthase kinase 3 in chewing tobacco mediated oral cancer as PI, Funding Agency - D.B.T., Govt. of India, Funding Amount - 42 Lacs, Duration - 2013-2016
- D.B.T. Boost Programme, Govt. of India- as Co-PI, Funding Agency - D.B.T., Govt. of India, Funding Amount - 5 Crore, Duration - 2014-2019

Publications (Journals) Total - 30

- S. Das, R.S. Nair, **R. Mishra**, G. Sondarva, N.



DEPARTMENT OF LIFE SCIENCES

Viswakarma, H. Abdelkarim, V. Gaponenko, B. Rana and A. Rana, Mixed Lineage Kinase 3 promotes breast tumorigenesis via phosphorylation and activation of p21 activated kinase 1, 2019, Oncogene, Publisher - Nature Publications, ISSN - 0950-9232, 27369

- M. Alam, T. Kashyap, P. Mishra, A.K. Panda, S. Nagini, **R. Mishra**, Role and regulation of pro-apoptotic Bax in oral squamous cell carcinoma and drug resistance, 2019, Head & Neck, Volume - 41, Issue - 1, Publisher - Wiley Online Library, ISSN - 185-197, 16967
- S. Josephraj, J. Kowshik, S. Bhutia, B. Manavathi, **R. Mishra**, S. Nagini, Nimbolide, a neem limonoid inhibits cytoprotective autophagy to activate apoptosis via modulation of the PI3K/Akt/GSK-3 β signalling pathway in oral cancer, 2018, Cell Death and Disease, Volume - 9, Issue - 11, Publisher - Nature Publications, ISSN - 1087, 5238
- T. Kashyap, K. K. Pramanik, N. Nath, P. Mishra, A.K. Singh, S. Nagini, A. Rana, **R. Mishra**, Crosstalk between Raf-MEK-ERK and PI3K-Akt-GSK3 β signaling networks initiate chemoresistance and invasion/migration with the expression of CD44 variants (v4 and v6) that determines stemness in oral cancer, 2018, Oral Oncology, Volume - 86, Issue - 1, Publisher - Elsevier Science, Issue - 234-243, 36563
- S. Nagini, S. Josephraj, **R. Mishra**, Glycogen synthase kinase: Moonlighting proteins with theranostic potential in cancer, 2018, Seminars in Cancer Biology, Volume - 17, Issue - 1, Publisher - Elsevier Science, ISSN - 30179-7, 35744

Publications (Book/Chapters)

- **R. Mishra** and S. Nagini, ADAM and ADAMTS Family of Metalloproteinases: Role in Cancer Progression and Acquisition of Hallmarks, 2017, Proteases in Human Diseases, DOI: 10.1007/978-981-10-3162-5_15, Editors - Sajal Chakraborti and Narajan S Dhalla, Publisher - Springer Publishers, ISSN - 978-981-10-3161-8
- **R. Mishra** and B.R. Das, Molecular alteration of chewing tobacco mediated oral cancer and its implications, 2011, Oral Cancer: Causes, Diagnosis and Treatment, Publisher - Nova Publishers, NY, ISSN - 978-1-61209-305-5

Contact

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Dr. Hena Firdaus
Assistant Professor

Qualification

Ph.D. Developmental Biology/ Cell biology/Muscle development/Drosophila genetics/ Indian Institute of Science (IISc) , Bangalore

Title - Genetics of Drosophila indirect flight muscles: Unraveling the roles of genes involved in muscle development and function
Master in Biochemistry major

Experience - 7 Years

Specialization -

Developmental Biology, Cell Biology, Drosophila genetics and muscle biology

Research Areas -

Develop mental Biology, Cell Biology, Heavy metal stress

Research Guidance

- Madhavi Dubey, 2013, Role of integrins and associated proteins in Drosophila melanogaster muscle development.
- Kumari Pragati nanda, 2015, Assessment of development defects and immunotoxicity due to heavy metal exposure in Drosophila melanogaster

Research Project

- Support to establish DBT-Boost to Central University of Jharkhand Interdisciplinary Life Science Departments for Education and Research (BUILDER) programme (No. BT/PR9028/INf/22/193/2013, Funding Agency - Department of Biotechnology, Funding Amount - Rs. 4.43 crore, Duration - 5 years, Nov-14 - Nov-19

Publications (Journals)

Total - 3

- **H. Firdaus**, J. Mohan, S. Naz, P. Arathi, S.R. Ramesh and U. Nongthomba, A cis-regulatory mutation in troponin-I of Drosophila reveals the importance of proper stoichiometry of structural proteins during muscle assembly, Upenfra Nongthomba, Genetics, Vol. 200, Issue 1, 2015, Genetics Society of America (GSA), Online ISSN: 1943-263, UGC Indexed No.27513
- M. Dubey, R. Kumari, K.P. Nanda, **H. Firdaus**, Behavioural assessment of muscle development by downregulating different types of integrins in Drosophila melanogaster. 2018; 8(2): 55-63p., Research & Reviews: A Journal of Life Sciences Vol 8, Issue 2, 2018, STM journals, ISSN:



2249-8656 (Online), ISSN: 2348-9545 (Print), UGC Indexed No. 62799

- J. Mohan, **H. Firdaus**, U. Nongthomba, S.R. Ramesh, Beadex the LIM only protein in drosophila is required for indirect flight muscle function, International Journal of Scientific & Research Publication, Vol 5, Issue 8, 2015.

Publications (Book Chapter-1)

- M. Dubey and **H. Firdaus**, Role of extracellular matrix proteins in development of myotendinus junction of indirect flight muscles (IFM) in Drosophila melanogaster, Human Implications on biotechnology Rizwanul Haque, Amrita Srivastava, Nitish Kumar Shree publishers and distributors, ISBN 978-81-8329-862-9, 2018.



Dr. Pallavi Sharma

Assistant Professor

Qualification

Ph.D. in Biochemistry

Title - Antioxidant Mechanism and role of osmolytes in growing rice seedlings under stressful conditions.

M.Sc. In Biochemistry

Experience - 9 Years

Specialization -

Plant Stress Biology, Biochemistry and Biophysics, Plant Molecular Biology

Research Areas -

Plant Stress Biology, Plant Molecular Biology, Plant Biochemistry and Biophysics

Research Guidance

- Rajani Singh (supervisor), 2015, Arsenic toxicity and tolerance mechanisms in bioenergy crop Ricinus communis.
- Rini Rahul (supervisor), 2017, Deciphering the mechanisms of cadmium toxicity and tolerance in bioenergy crop Ricinus communis
- Md. Ekhlake Ahmed Khan (Co-supervisor), 2013, Nitric oxide signalling during cadmium stress induced programmed cell death in pea (Pisum sativum L.).
- Kiran Kacchap (Co-supervisor), 2013, Analysis of secondary metabolite production and antioxidant potential in callus culture and cell suspension culture of Ocimum sanctum (L)
- Sonam Kumari (Co-supervisor), 2018

Research Project

- Genome wide transcriptional analysis of heavy metal tolerance mechanism in bioenergy crop Ricinus Communis, Funding Agency - DST-Science & Engineering Research Board (SERB) for Early Career Research Award Program, Funding Amount - Rs 3470500, Duration - 3 years, 2017-2020
- UGC startup grant, Funding Agency - UGC, Funding Amount - Rs. 600000, Duration - 2 years, 2017-2019

Publications (Journals)

Total - 20

- **P. Sharma**, M. Gangola, C. Huang, H.R. Kutcher, G. Seedhabadee and R.N. Chibbar, Single Nucleotide Polymorphisms (SNPs) in B-Genome specific UDP-Glucosyl Transferases associated with Fusarium Head Blight Resistance and reduced deoxynivalenol accumulation in wheat grains, 2018, Phytopathology, Volume - 108, Issue - 1, Publisher - American Phytopathological Society, ISSN: 0944-1344 (Print) 1614-7499 (Online), UGC Indexed No. 30915
- A. N. Anjum., **P. Sharma**, S. S. Gill, M. Hasanuzzaman, A. E. Khan, K. Kachhap, A. A. Mohamed, P. Thangavel, G.D. Devi, P. Vasudhevan, A. Sofo, A. N. Khan, A.N. Misra, A.S. Lukatkin, H.P. Singh, E. Pereira, N.Tuteja, Catalase and ascorbate peroxidase-representative H2O2-detoxifying heme enzymes in plants., 2016, Environmental Science and Pollution Research, Volume - 23, Issue - 19, Publisher - Springer, ISSN: 0944-1344 (Print) 1614-7499 (Online), UGC Indexed No. 19836
- S. Singh, R. Singh, B. Jha, A.N. Misra, & **P. Sharma**, Amorphophallus paeoniifolius corm: A potential source of peroxidase for wide applications, 2017, International Journal of Food Properties, Volume - 20, Issue - 11, Publisher - Taylor and Francis Inc, ISSN: 1094-2912 Online ISSN: 1532-2386, UGC Indexed No. 3038
- A.E. Khan, M. Misra, **P. Sharma**, and A.N. Misra, Effects of exogenous nitric oxide on protein, proline, MDA contents and antioxidative system in pea seedling (Pisum sativum L.), 2017, Research Journal of Pharmacy and Technology, Volume - 10, No. - 9, Publisher - A and V Publications, ISSN (PRINT) : 0974-3618 ISSN (ONLINE): 0974-360X, 10467
- K. Kachhap, **P. Sharma**, M. Misra, and A.N. Misra, Modulation of callus induction and growth by 2, 4-D from explants of Ocimum sanctum (L)., 2018, Journal of Pharmacognosy and Phytochemistry, Volume - SP, Issue - 1, 2018, Society of Pharmacognosy and Phytochemistry, ISSN Print: 2349-8234, ISSN Online: 2278-4136, 45051

Publications (Book/Chapters)

Total - 15

- R. Singh, A.B. Jha, A.N. Misra, **P. Sharma**, Adaption mechanisms in plants under heavy metal stress conditions during phytoremediation, Phytomanagement



DEPARTMENT OF LIFE SCIENCES

- of Polluted Sites, 2018, Editor - Pandey, V.C. and Bauddh, K., Publisher - Elsevier, ISSN - 9780128139127
- A.B. Jha, A. N. Misra, & **P. Sharma**, Phytoremediation of Heavy Metal-Contaminated Soil Using Bioenergy Crops, 2017, Phytoremediation Potential of Bioenergy Plants, Editors - Bauddh, K., Singh, B., Korstad, J., Publisher - Springer, Singapore, ISSN - 978-981-10-3083-3
 - **P. Sharma**, V. Srivastava, A.K. Gautam, A. Rupashree, R. Singh, S. Abhijita, S. Kumar, A.B. Jha and A.N. Misra, Mechanisms of metalloids uptake, transport, toxicity and tolerance in plants. In Physiology for sustainable crop production, 2018, Editors Zafar, A., Tiwari, A.K. and Kumar, P. Apple Academic Press, New Jersey, USA. Hard ISBN: 9781771886369 E-Book ISBN: 9781315101224, Emerging Trends in Plant , Zafar, A., Tiwari, A.K. and Kumar, P., Apple Academic Press, New Jersey, Singapore, ISBN - 9781315101224
 - **P. Sharma**, A.B. Jha, and R.S. Dubey, Arsenic Toxicity and Tolerance Mechanisms in Crop Plants, Handbook of Plant and Crop Physiology, 3rd Edition, Pessarakli, M. (Ed.), Publisher - Taylor & Francis Publishing Company, Florida., ISSN - 9781466553286, 2014
 - **P. Sharma**, A.B. Jha, R.S. Dubey and M. Pessarakli, Reactive Oxygen Species Generation, Hazards, and Defense Mechanisms in Plants under Environmental (Abiotic and Biotic) Stress Conditions., Handbook of Plant and Crop Physiology, 3rd Edition, 2014, Pessarakli, M. (Ed.), Editor - Taylor & Francis Publishing Company, Florida, ISSN - 9781466553286

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The Department of Mathematics (formerly Centre for Applied Mathematics) was started in July 2009 under the School of Natural Sciences of Central University of Jharkhand. This department is first in Jharkhand to offers 5 years integrated M.Sc. program on Applied Mathematics. It has started two year M. Sc. Program since 2017. It also offers PhD. program in Mathematics and allied subjects.



Dr. Hrishikesh Mahato
Assistant Professor

Qualification

Ph.D., Mathematics, Ranchi University
Title - A Study of finite Commutative Rings, Codes and Rational approximation
M.Sc.in Mathematics, Ranchi University

Experience - 10 Years

Specialization

Discrete Mathematics, Number Theory, Algebra

Research Areas -

Discrete Mathematics, Number Theory, Algebra

Research Guidance

- Siddhesh Satykar, Study on Generalized of Hadamard Matrix, 2013
- Naseer Ahmed Malik, Study of Generalization of Hadamard Matrix, 2014
- Shipra Kumari, Study on Constructions of Hadamard Matrices, 2015
- Kalika Prasad, Coursework going on, 2018

Publications (Journals)

Total - 04

- **H. Mahato**, On Existence of Williamson Symmetric Circulant Matrices, 2011, Institute of Mathematics, Academia Sinica, ISSN: 2304-7909 (PRINT) ISSN: 2304-7895 (ONLINE)
- K. C. Prasad, **H. Mahato**, Sudhir Mishra, A New Point in Lagrange spectrum, 2013, World Scientific Publ Co Pte Ltd., ISSN Number : 17930421, e-ISSN Number 17937310, UGC Indexed No. 23228
- N. A. Malik, **H. Mahato**, Yates Quaternary Complex Hadamard Matrix, 2017, Seventh Sense Research Group, UGC Indexed No. 48198

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Dr. Jagmohan Tanti
Assistant Professor

Qualification

Ph.D., Pune University
Title - Roots of Unity in finite fields, Jacobi sums and Euler's criterion
Master in Mathematics, Utkal University

Experience - 8 Years

Specialization

Algebra, Number Theory, Representation Theory

Research Areas

Algebra, Number Theory, Representation Theory

Research Guidance

- Md. Helal Ahmed, Jacobi sums and cyclotomic numbers of order $2l^2$, 2015
- Shikha Singh, Hybrid power mean of inversion of L-function and Gauss sums, 2015
- Dilchand Mahto, Space of invariant bilinear forms under representation of a finite group, 2017
- Munesh Kumari, undergoing course work, 2018

Publications (Journals)

Total - 07

- **J. Tanti** and R. Thangadurai, Distribution of residues and primitive roots, 2013, Springer, ISSN (Print/Online) 0253-4142, UGC Indexed No. 38533
- R. S. Kulkarni and **J. Tanti**, Space of Invariant Bilinear forms, 2018, Springer, ISSN (Print/Online) 0253-4142, UGC Indexed No. 38533
- S. Singh and **J. Tanti**, Hybrid mean value of $2k$ -th power inversion of L-functions and general quartic Gauss sums, 2019, Springer, ISSN (Print/Online) 0253-4142, UGC Indexed No. 38533
- S. A. Katre and **J. Tanti**, Euler's criterion for eleventh power nonresidues, Springer, ISSN (Print/Online) 0253-4142, UGC Indexed No. 38533
- **J. Tanti**, Euler's criterion of prime order in PID case, Polish academy of sciences Inst of Mathematics-Impan,



DEPARTMENT OF MATHEMATICS

ISSN (Print/Online) 0065-1036/17306264, UGC Indexed No. 346

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Dr. Jitendra Kumar
Assistant Professor

Qualification

Ph.D. in Mathematics, IIT Roorkee
Title - Some Spherically Symmetric Charged and Uncharged Fluid Distributions in General Relativity
M. Sc in Industrial Mathematics and Informatics, IIT Roorkee

Experience - 6 Years

Specialization

Differential Equations, Linear Algebra, Applied Mathematics

Research Areas -

Differential Equations, Astrophysics, Similarity Transformation

Research Guidance

- Amit Kumar Prasad, Some Isotropic and Anisotropic Fluids in General Relativity, 2016
- Abhijit Sarkar, Course Work, 2018

Publications (Journals)

Total - 11

- A.K. Prasad, **J. Kumar**, S.K. Maurya and B. Dayanandan, Relativistic model for anisotropic compact stars using Karmarkar condition, 2019, Springer, ISSN (Print/Online) 0004640X, UGC Indexed No. 1409
- S.K. Maurya, Ayan Banerjee, M. K. Jasim, **J. Kumar**, A. K. Prasad and Anirudh Pradhan, Anisotropic Compact stars in the Buchdahl model: A comprehensive study, 2019, American Physical Society, ISSN (Print/Online) 2470-0029, UGC Indexed No. 30796
- **J. Kumar**, A.K. Prasad, S.K. Maurya and A. Banerjee, Charged Vaidya-Tikekar Model for super dense star, 2018, Springer, ISSN (Print/Online) 1434-6052, UGC Indexed No. 28903
- **J. Kumar** and Y.K. Gupta, A Class of well behaved generalized charged analogues of Vaidya-Tikekar type

fluid spheres in general relativity, 2017, Springer, ISSN (Print/Online) 0004640X, UGC Indexed No. 1409

- **J. Kumar** and Y.K. Gupta, A Class of New Solutions of generalized charged Analogues of Buchdahl's type super dense star, 2013, Springer, ISSN (Print/Online) 0004640X, UGC Indexed No. 1409

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Dr. P. K. Parida
Assistant Professor

Qualification

Ph.D. in Mathematics, IIT Kharagpur
Title - "Study of Some Third Order Methods for Nonlinear Equations in Banach Spaces"
Master in Mathematics, Utkal University
Post Doc in Numerical Analysis

Experience - 10 Years

Specialization - Numerical Analysis, Mathematical Optimization, Numerical Functional Analysis

Research Areas -

Numerical Analysis, Mathematical Optimization, Numerical Functional Analysis

Research Guidance

- Dr. Shwet Nisha, Convergence Analysis of Newton-Like Methods for Nonlinear Equations in Banach Spaces, 2013 (Awarded)
- Dr. Himanshu Kumar, Numerical Solution of Fuzzy Nonlinear Equations, 2013 (Awarded)
- Prasanta Kumar Sahoo, 2014
- Chandni Kumari, Convergence analysis of higher order iterative methods in Banach spaces, 2015
- Chandresh Prasad, Convergence Analysis of Newton-Like Methods for Nonlinear Equations in Riemannian Manifolds, 2018

Publications (Journals)

Total - 23

- C. Kumari and **P. K. Parida**, Local convergence analysis for Chebyshev's method, 2019, Springer, ISSN (Print/Online) 1598-5865, UGC Indexed No. 21400
- H. Kumar and **P. K. Parida**, On Semilocal convergence of two step Kurchatov method, 2017, Taylor & Francis,

ISSN (Print/Online) 1029-0265, UGC Indexed No. 2773

- I. K. Argyros, **P. K. Parida**, Expanding the Applicability of Stirling's Method under Weaker Conditions and Restricted Convergence Regions, 2018, Sciendo(De Gruyter), ISSN (Print/Online) 1841-3307, UGC Indexed No. 47430
- H. Kumar and **P. K. Parida**, Three step Kurchatov method for Nondifferentiable operators, 2017, Springer, ISSN (Print/Online) 2199-5796, UGC Indexed No. 48876

- S. Nisha and **P. K. Parida**, An improved bisection Newton-like method for enclosing simple zeros of nonlinear equations, 2015, Springer, ISSN (Print/Online) 2281-7875, UGC Indexed No. 46303

Contact

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Mobile : 8000909216





The Department of Computer Science and Technology has been started in 2018 under the school of Natural Sciences. Initially, only PG Diploma in Cyber Security with an intake of 28 students; and Ph. D. program has been offered. The department is going to offer M. Tech. Program in Computer Science and Technology from upcoming session 2019/20. It is the department's ambition to be internationally recognized as a leader in computer science and technology, a department with coherent activities within research, education, development and industry cooperation. The research in the department is focused on major thrust areas of computer science and technology like Network Security, Computer Databases, Cloud Computing, Soft Computing, Commonsense Reasoning, Cognitive Robotics and on other relevant areas of Computer Science and Technology. Including interdisciplinary research work with other streams/subjects/ technology.



Dr. Subhash Chandra Yadav

Associate Professor

Qualification

Ph.D.(Application Computers in Science)
 Title - Role of Computer Animation in Development of Tutoring System for Chemical Reactions.
 M.Sc. in Chemistry, MCA, M.Tech.(IT)
 M. Phil. (CS), MBA (IT & HR)

Experience - 21 Years

Specialization

Data Base, Software, Engineering, Programming concepts, Networking.

Research Areas

Database, Soft Computing, Network Security

Research Guidance

- Dashrath Mahto, 2018, Course Work

Research Project

- Applications of GPS/GIS & Remote Sensing in the development of Planning and Management. Funding Agency - DST, Earth & System Science Department, Funding Amount- 6 Lakhs.
- Land use Planning, Management & Sustainable Development, Funding Agency - DST, Earth & System, Science Department, Funding Amount- 6 .5 Lakhs.

Publications (Journals) Total-17

- **S. C. Yadav**, Computerized Learning Environment for Higher Education, IJCA , Vol: CTNGC (2010)
- N. L. Yadav, S. K. Agarwal, S.C. Yadav; A Review on Enhancement of Medical Images, IJICC, Vol-10, No. 1 (2019).
- **S. C. Yadav**, Penetration to our Cyberspace: Cyber Crime

and Cyber Law, IRJA, Vol-2, Issue-II, (2014)

- R. S. Yadav, **S. C. Yadav**; Application of Hybrid Clustering Techniques: Subtractive Clustering and Artificial Neural Network Approach, CSI Communication, Vol. No.42, Issue No. 5 & 6.(2018).
- D. Deepak, M. Bireshwar, **S. C. Yadav**; The Agent Role in Negotiation in E-Commerce, CSI Communication, Vol. No.42, Issue No. 5 & 6, (2018).

Publications (Book/Chapters)

Total-9

- **S.C. Yadav**, S.K. Singh; Introduction to Client / Server Computing, New Age International (P) Ltd., New Delhi (2009).
- **S.C. Yadav**, Cyber Security: An Introduction, Veer Bahadur Publication, Lucknow (2019).
- **S. C. Yadav**, UNIX: A Practical Approach, Poddar Publication, Varanasi. (2019).
- N. L. Yadav, S. K. Agarwal, **S. C. Yadav**; A review on advancement of Medical Images through the enhance techniques, Recent Advances in Management & Technology, Bharti Publications, New Delhi, (2019).
- **S. C. Yadav**, S. K. Singh, AI Tools and their Applications for Future Power Systems, International Conference on Challenges and Strategies for Sustainable Energy, Efficiency and Environment, New Age International (P) Ltd. , (2006).

Awards/Fellowship

- Platinum Jubilee Award by ISCA, 2018.
- National Significant Contribution, CSI, 2012.
- National Significant Contribution, CSI, 2011.

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SCHOOL OF ENGINEERING & TECHNOLOGY

Department of Energy Engineering

**Department of Water Engineering &
Management**

Department of Nano Science & Technology



DEPARTMENT OF ENERGY ENGINEERING

The Department of Energy Engineering (formerly Centre for Energy Engineering) came into existence in July 2011 under the school of Engineering and Technology. The department 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 department is currently running five years integrated M. Tech. program, and offering 2 years M Tech as well as PhD program in Energy Engineering. The department 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 has been established with funding under FAST scheme of Ministry of Human Resources and Development, Government of India is a step in that direction. The department has already signed/ taken initiative to sign MoU with a few specialized organizations working in the field of energy. It also offers GATE fellowship for M.Tech and NREF fellowship for Ph.D



Dr. S.K. Samdarshi
Professor

Qualification

Ph.D. in Energy, IIT Delhi
Title - Study of Top Heat Loss Factor of Flat Plate Solar Collector
M.Sc. in Physics, IIT Delhi

Experience - 28 Years

Specialization

Energy, Solar Energy, Photoactive Solar Thermal Conversion

Research Areas

Solar Thermal Conversion, Energy Materials, Energy Education

Research Guidance

Total - 10

- Atul Sagade, 2013 (Generalization of the Test Standards for Intermediate Temperature Solar Cookers and its Utilization for Investigations on Design Parameters and Variations)
- Kumar Gaurav, 2016 (Solar Photoactive Materials)
- Neha Kumari, 2017 (Novel Solar photoactive nanomaterials)

Research Project

- Centre of Excellence in Green and Efficient Energy Technology, Funding Agency - MHRD, Govt. of India
Amount - Rs. 250.00 Lakh, Duration - 2014-2020

Publications (Journals)

Total-53

- S. Atul, **S.K. Samdarshi**, and P. J. Lahkar, Ensuring the Completion of Solar Cooking Process under Unexpected Reduction in Solar Irradiance, Solar Energy, Volume 179, 2019, Publisher - Elsevier, UGC Indexed No. - 33282

- Ranjith G. Nair, Swapna Ojah, P. Mathan Kumar, S.K. Nikhil, **S.K. Samdarshi**, Role of copper and silver modified titania photoanode on performance engineering of dye sensitized solar cells, Materails Letter, Volume-221, 2018, Publisher - Elsevier, UGC Indexed No. - 3978
- Sagade Atul, **S.K. Samdarshi*** and Partha S Panja, Experimental Determination of Effective Concentration Ratio for Solar Box Cookers using Thermal Tests, Solar Energy, Volume 159, 2018, Elsevier, UGC Indexed No. - 33282
- Sagade Atul, **S.K. Samdarshi*** and Partha S Panja, Enabling Rating of Intermediate Temperature Solar Cookers using Different Working Fluids as Test Loads and its validation through design change, Solar Energy, Volume - 171, 2018, Elsevier, UGC Indexed No. - 33282
- Sagade Atul, **S.K. Samdarshi*** and Partha S Panja, Enabling Rating of Intermediate Temperature Solar Cookers using Different Working Fluids as Test Loads and its validation through design change, Solar Energy, Volume - 171, 2018, Elsevier, UGC Indexed No. - 33282

Publications (Book/Chapters)

Total-05

- Vijay K. Jayswal*, V. V. Tyagi, Richa Kothari, D. P. Singh and **S. K. Samdarshi**, Role and Initiatives of Indian Government Policies for Growth of Wind Energy Sector, Emerging Energy Alternatives for Sustainable Env, 2016, Editors D. P. Singh, Richa Kothari, and V. V. Tyagi, ISBN-978-81-7993-411-1, TERI

Awards/Fellowship/Honors

- Adjunct Professorship, SMVD University, Katra, Jammu
- Leadership in Academics Programme (LEAP) Fellow
- Academic Council Member, Nagaland Central University
- Member, Academic Advisory Committee, National Resource Centre for Energy System Egg. IIT Bombay
- Member, ESDR Panel, JSERC, Ranchi

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sanjoy.samdarshi@cuja.ac.in



Dr. Devdas B. Lata
Associate Professor

Qualification

Ph.D. in Mechanical Engineering, Birla Institute of Technology, Mesra,
Title - "Some Investigations On The Performance Of Dual Fuel Diesel Engine with Hydrogen and LPG as secondary fuels"
M.E. (Thermal Power)

Experience - 33 Years

Specialization

Dual Fuel Engine with Hydrogen Energy, Internal Combustion Engine, Dual Fuel Diesel Engine with Hydrogen and LPG as Secondary Fuel

Research Areas

I. C. Engine, Bio-fuel Diesel Engine, Hydrogen as fuel in Spark Ignition Engine

Research Project

Total - 2

Design and Development of Bio-mass assisted dual fuel diesel engine for rural electrification.
Funding Agency - Jharkhand Council of Science and Technology, Ranchi, Jharkhand
Funding Amount - Rs 5,00,000
Duration - 2018-20

Publications (Journals)

Total - 14

- **D.B. Lata**, A. Misra, Analysis of ignition delay of a dual fuel diesel engine with hydrogen and LPG as secondary fuels, International Journals of Hydrogen Energy, Volume 36, 2011, Publisher - Elsevier, ISSN-0360-3199.
- **D.B. Lata**, A. Misra, S. Medhekar, Investigations on the combustion parameters of a dual fuel diesel engine with hydrogen and LPG as secondary fuels, International Journals of Hydrogen Energy, Volume 36, 2011, Publisher - Elsevier, ISSN-0360-3199.
- **D.B. Lata**, A. Misra, S. Medhekar, Effect of addition of hydrogen and LPG on the performance and emissions of a dual fuel diesel engine, International Journals of Hydrogen Energy, Volume 37, 2012, Publisher - Elsevier, ISSN-0360-3199.
- **D.B. Lata**, A. Misra, Theoretical and experimental investigations on the performance of dual fuel diesel

engine with hydrogen and LPG as secondary fuels, Volume 35, 2010, Publisher - Elsevier, ISSN-0360-3199.

- G.K. Prashant, D.B. Lata, P.C. Joshi. Investigations on the effect of ethanol blend on the combustion parameters of dual fuel diesel engine. Applied Thermal Engineering. 96 (2016), 623–631. ISSN: 1359-4311.

Publications (Book/Chapters)

Total - 03

- **D. B. Lata**, Effect of rate of pressure rise on a dual fuel diesel engine with hydrogen and LPG as secondary fuels. Energy Conservation and Environment Protection (An International Edition) 75-86. May 2016. International Research Publication House. ISSN 978-93-84443-54-2.
- **D. B. Lata**, Effect of LPG addition on emissions of a dual fuel diesel engine Energy Conservation and Environment Protection (An International Edition) 199-221. May 2016. International Research Publication House. ISSN 978-93-84443-54-2.
- **Book: D. B. Lata**, Investigations of Dual Fuel Diesel Engine with Hydrogen and LPG, LAP LAMBERT Academic Publishing GmbH & Co. K G, Germany, 2014, ISBN 978-3-659-15025-8.

Contact

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Mobile : 9284795918,9431382608



Dr. Bishnu Mohan Jha
Assistant Professor

Qualification

Ph.D. in Engineering
Title - Effect of ECM Process Variables on Surface Produced and Machined Geometry
M. Tech. in Manufacturing Engineering
B. Tech. in Electrical & Electronics Engineering

Experience - 09 Years

Specialization

Basic Electrical Engineering, Power Electronics, Control and Automation

Research Areas

Smart Grid, DSM, Automation.



DEPARTMENT OF ENERGY ENGINEERING

Publications (Journals)

Total-07

- Synthesis and characterization of plasmonic visible active Ag/ZnO photocatalyst, J Mater Sci: Mater Electron, DOI 10.1007/s10854-014-1968-1, 2014.
- Multicriteria Optimization of Surface Roughness Produced in Electro Chemical Machining, IJERT, Vol 3, Issue 6, June 2014.
- Electrochemical Machining of SG Iron: Effect of Process Variables on Surface Roughness Parameters. IJERT, Vol 2, Issue 7, July 2013.
- Effect of Electrolyte Concentration on Material Removal Rate and Overcut during Machining of SG Iron, IJSPR Volume 22, Number 03, 2016.
- Overcut And Profile Of The Machined Features In Electrochemical Machining, IJMMCE Vol. 1, Issue 1, Jan – Jun 2016; 29-40

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Dr. Basudev Pradhan
Assistant Professor

Qualification

Ph.D. in Physics from Indian Association for the Cultivation of Science and Jadavpur University, Kolkata
 Title - Organic Photovoltaic devices: Role of heterostructures and device architecture
 M.Sc. In Physics
 Post Doctoral - Solar cell and Nanoelectronics/ Uni of Potsdam, Germany, University of Surrey, UK, University of Wisconsin-Milwaukee, USA, Arizona State University, USA
 Title - organic solar cell, organic electronics, Infrared Sensor, Nanoscience and Nanotechnology

Experience - 16.5 Years

Specialization -

Solar Photovoltaics, Materials Science, Nanoelectronics

Research Areas

Next generation solar cells (Organic, Perovskite), Electronic and Optoelectronic Devices, Nanoscience and Nanotechnology.

Research Guidance

- Arup Mahapatra, 2014, Fabrication and characterization of dye-sensitized solar cells.
- Sandeep Kumar, 2016, Fabrication and characterization of high efficiency quantum dot-sensitized solar cells.

Research Projects

- Development of High-Efficiency Organic Photovoltaic Devices, Funding Agency - DST, Govt. of India, Amount - Rs 87,40,000/- Duration - 2013-18
- Development of highly efficient inverted organic solar cells, Funding Agency - SERB, DST Govt. of India, Amount - Rs 23,00,000/-, Duration - 2014-17
- Centre of Excellence (CoE) in Green & Efficient Energy Technology (GEET) (with other 4 faculty members), Funding Agency - MHRD, Govt. of India Amount - Rs 2,50,00,000/-, Duration - 2014-19
- Investigation of Compositional Engineering for Efficient Perovskite Solar Cells (Co-PI), Funding Agency - DST-CERI, Amount - Rs 99,64,200/- Duration - 2016-19
- Development of Highly Efficient Hybrid Solar Cells Funding Agency - UGC, Amount - Rs 6,00,000 Duration - 2014-16

Publications (Journals)

Total-21

- **B. Pradhan**, K. Setyowati, H. Liu, D. H. Waldeck, and J. Chen, Carbon nanotube-polymer nanocomposite infrared sensor, Nano Letters, 2008, 8, 1142. Impact factor: 12.71, Times cited: 186
- **B. Pradhan***, and S. Das*, Role of new bis(2,2'-bipyridyl) (triazolopyridyl) ruthenium(II) complex in the organic bistable memory application, Chemistry of Materials, 2008, 20, 1209. Impact factor: 9.47, Times cited: 37
- **B. Pradhan**, S. K. Batabyal, and A. J. Pal, Vertically aligned ZnO-nanowire arrays in rose bengal-based dye sensitized solar cell, Solar Energy Materials & Solar Cells, 2007, 91, 769. Impact factor: 5, Times cited: 202
- **B. Pradhan***, S. Albrecht, B. Stiller, and D. Neher, Inverted organic solar cells comprising low temperature processed ZnO films, Appl. Phys A 2014, 115, 365 Impact factor: 1.6, Times cited: 6
- S. Das*, and **B. Pradhan*** Photophysical and photochemical properties of a family of isoelectronic tris chelated ruthenium(II) aza-/azo-aromatic complexes, (2015), RSC. Adv. 2015, 5, 73726 Impact factor: 3.11.

Awards/Fellowship

- Alexander von Humboldt Research fellowship.
- Ramanujan Fellowship
- Bhaskara Advanced Solar Energy Fellowship-2018, National Scholarship

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Dr. Sachin Kumar
Assistant Professor

Qualification

Ph.D. in Chemical Engineering, NIT Rourkela
Title - Conversion of Waste HDPE into Liquid Fuels
M. Tech in Fuel Engineering, ISM, Dhanbad

Experience - 09 Years

Specialization

Fuels and Combustion, Bio Energy, Energy and Environment

Research Areas

Pyrolysis, Alternative Fuels for I C Engines, Catalysis

Research Guidance

- Satya Prakash Pandey, 2017, Biofuel from Biomass
- Satya Narayan Pattnaik, 2015, Waste to Energy, Co-supervisor

Research Project

UGC Startup Grant, Funding Agency - UGC, Govt. of India, Amount - Rs 6 Lakh, Duration - 2015-17
Centre of Excellence, Funding Agency - MHRD, Govt. of India, Amount - Rs 250 Lakhs
Duration - 2014-19

Publications (Journals)

Total - 22

- N. K. Nayan, **S. Kumar**, R K Singh, Production of the liquid fuel by thermal pyrolysis of neem seed, Fuel, Volume 103, 2013, Publisher - Elsevier, ISSN 0016-2361, UGC Indexed No. 17815
- **S. Kumar***, R. Prakash, S. Murugan, R. K. Singh, Performance and emission analysis of blends of waste plastic oil obtained by catalytic pyrolysis of waste HDPE with diesel in a CI engine, Energy Conversion and Management, Volume 74, 2013, Publisher - Elsevier, ISSN 0196-8904, UGC Index No. 19559
- R. Sinha, **S. Kumar**, R. K. Singh, Production of bio-fuel and bio-char by thermal pyrolysis of linseed seed, Biomass Conversion and Biorefinery, Volume 151, 2014, Publisher - Springer, ISSN 2190-6815, UGC Indexed No.-14754

- V. K. Singh, A. B. Soni, **S. Kumar**, R. K. Singh, Pyrolysis of sal seed to liquid product, Bioresource Technology , Volume 151, 2014, Publisher - Elsevier, ISSN 0960-8524 UGC Indexed No. 14861
- V. K. Singh, A. B. Soni, **S. Kumar**, R. K. Singh Characterization of liquid product obtained by pyrolysis of cottonseed de-oiled cake, Journal of Biobased Materials and Bioenergy, Volume 8, Issue 3, 2015, Publisher - ASP, ISSN 1556-6560 UGC Indexed No. 21586

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Partha Sarthi Panja
Assistant Professor

Qualification

M.Tech.

Experience - 36 Years

Specialization

Design and Production Engineering, I.C.Engine, Solar Thermal

Research Areas -

Wind Turbine, Solar Thermal, I.C.Engine

Publications (Journals)

- Experimental determination of effective concentration ratio for solar box cookers using thermal tests. [Solar Energy Vol: 159 (2018)]
- Enabling rating of intermediate temperature solar cookers using different working fluids as test loads and its validation through a design change. [Solar Energy Vol: 171]

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DEPARTMENT OF WATER ENGINEERING & MANAGEMENT

Department of Water Engineering and Management (formerly Centre for Water Engineering & Management) was established in 2010 with a vision to provide highly trained manpower in the area of water engineering and management to cater the needs of society in view of optimum utilisation of water resources for the mankind. The mission of the department is to address the need of training of manpower in the multidisciplinary area of water engineering and management. In the light of vision and mission of the department 5 years Integrated M. Tech. Programme in Water Engineering and Management was started in the year 2010 with seven faculty members with an intake of 40 students. The Ph.D. Program was also started by the Department from the year 2013. The faculty members of the Department are highly qualified and having B. Tech., M. Tech. and Ph.D. degrees from IITs, NITs and other reputed technical institutions of National importance. They have published a good number of research papers and patents in various reputed International and National Journals. They are actively involved in supervising the M. Tech. Dissertations/Projects and Ph.D. thesis works of the students and rendering consultancy projects of various departments of State Govt. of Jharkhand. Every year around 20-25 % students qualify GATE examination and after obtaining M. Tech. degree they get placement in various organisations in India and abroad.



Dr. H. P. Singh
Professor

Qualification

Ph.D. (IIT Roorkee).
M.Tech. (Civil Engineering)

Experience - 27 Years

Specialization

Geotechnical Engineering.

Research Areas

Soil Liquefaction, Ground, Improvement Technique, Geosynthetic and Reinforced, Soil and Utilization of Pond, Ash as construction material.

Research Guidance

Total - 2 (Doctoral)

- Sanny Kumar, 2017, Experimental Study of Dip modified Velocity profiles in fully developed Open Channel Flow (Flume study)
- Sohrat Ali, 2018, Hydrological Modeling and Variability of Climate Change in the Subarnarekha River Basin.

Publications (Journals)

Total - 20

- B.K. Maheshwari, **H.P. Singh** and S. Saran, (2013). Closure to Effects of Reinforcement on Liquefaction Resistance of Solani Sand. ASCE Journal of Geotechnical and Geoenvironmental Engineering, 139, 1633-1635.
- T. Muni, Y. Jeram, K. Padu, Y. Omo and **H.P. Singh**, (2014). Strength and Stiffness Response of Itanagar Soil Reinforced with Arecanut Fiber. International Journal of Innovative Research in Science, Engineering and Technology, 3 (10), 16659-16667.

- A. Kumari, M. Mayur, S. Mahapatra, **H.P. Singh**, and P.K. Parhi, (2018). Flood Risk Monitoring of Koshi River Basin in North Plains of Bihar State of India Using Standardized Precipitation Index. International Journal of Advance and Innovative Research, 5 (4), 21-30.
- M. Mayoor, A. Kumari, S. Mahapatra, P.K. Parhi and **H.P. Singh**, (2018). Comparison of Four Precipitation Based Drought Indices in Marathwada Region of Maharashtra, India. International Journal of Advance and Innovative Research, 5 (4), 60-70.
- K. Daksh, V. Kumari, A. Kumari, M. Mayoor, **H.P. Singh**, and S. Mahapatra, (2018). Drought Risk Assessment in Vidarbha Region of Maharashtra, India Using Standardized Precipitation Index. International Journal of Innovative knowledge Concept, 6 (10), 13-23.

Patents :

Total - 2

- A method and device to improve the strength characteristics of pond ash deposits, AICTE through Quality Improvement Program, 2011
- A method for improving the liquefaction resistance of pond ash deposits, AICTE through Quality Improvement Program, 2012

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Dr. Ajai Singh
Associate Professor

Qualification

Ph.D. in Soil and Water Conservation Engineering,
Sam Higginbottom Institute of Agriculture, Sciences and
Technology, Allahabad
M. Tech.

Experience - 22 Years

Projects/Consultancy

- Leading a team of Social Impact Assessment of CUJ. Completed 21 SIA studies of Infrastructural projects of Government of Jharkhand.
- Leading a team to evaluate the Detailed Project Report of Weirs/Check Dams constructed by Drinking Water and Sanitation Department, Government of Jharkhand, Ranchi.
- Nodal Officer, Integrated Agromet Advisory Services, IMD, Ministry of Earth Sciences, Govt. of India

Research interests

- Runoff production mechanism, River basin geomorphology, Hydrologic impact assessment studies, Physically-based, distributed watershed modeling, Soft Computing, Design of Micro Irrigation System, Water resource systems modeling, optimization and control Environmental and Social Impact Assessment

Publications (Journals) Total - 28

- **A. Singh**, M. Imtiyaz, R. K. Isaac, D.M. Denis, 2014. Assessing the performance and uncertainty analysis of Soil and Water Assessment Tool (SWAT) and Radial Basis Neural Network (RBNN) models for simulation of sediment yield in Nagwa watershed, India. *Hydrological Sciences*, 2(59): 351-364
- P. Singh, R.G. Patil & **A. Singh**, 2018, Assessment of Recent Changes in Planform of River Ganga from Mirapur Khadar To Narora Barrage, Uttar Pradesh, India, *Sustain. Water Resour. Manag.* <https://doi.org/10.1007/s40899-018-0222-z>.
- **A. Singh**, 2015. Modeling Stream Flow with prediction uncertainty by using SWAT hydrologic and RBNN Neural Network models for agricultural watershed in India. *Natl. Acad. Sci. Lett.*, 39: 213.
- S. Sarkar, V. Vaibhav and **A. Singh**, 2017, Estimation of sediment yield by using Soil and Water Assessment

Tool for an agricultural watershed in Eastern India. *Indian Journal of Soil Conservation*, 45 (1), pp 52-59.

- P. Rani & **A. Singh**, 2017, Evaluation of benchmarking indicators of Sanjay Sarovar Irrigation Project, India. *Sustain. Water Resour. Manag.* DOI 10.1007/s40899-017-0122-7.

Publications (Book/Chapters)

Total-10

- **A. Singh**, 2012, Introduction of Drip Irrigation, N.D. Publishers, New Delhi, India.
- **A. 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.
- **A. Singh**, Megh R. Goyal, 2017, Micro irrigation engineering in horticultural crops: policy option, scheduling and design. In *Innovation and Challenges in Micro Irrigation*, Vol. 6 (Edited Book). CRC Press Taylor and Francis Group, USA. Hard ISBN: 9781771885409, E-Book ISBN: 9781315207421
- R. K. Jha, A. K. Singh, L.R. Ranganath and **A. Singh**, 2017, Study of Hydrodynamic and Sediment Transport in Gulf of Khambhat, Western Coast India—A Numerical Approach. In V. Garg et al. (eds.), *Development of Water Resources in India*, Water Science and Technology Library 75, DOI 10.1007/978-3-319-55125-8_7. Springer International Publishing
- **A. Singh**, 2017, Maximizing profits by using different planting geometry under micro irrigation. In Megh R. Goyal (Ed.) *Micro Irrigation Management – Technological advances and their applications*. Vol. 5, pp 295-301

Professional Affiliations

- Fellow of The Institution of Engineers (India)
- Indian Society of Agricultural Engineers
- Indian Water Resources Society
- Indian Association of Hydrologist
- Indian Meteorological Society
- Crop and Weed Science Society

Editorial

- Member of Editorial Board of Sustainable Agricultural Research, ISSN 1927-050X, Canadian Center of Science and Education.
- Member of Editorial Board of Advances in Water Resource and Protection (ISSN Print: 2327-7319)
- Associate Editor. *International Journal of Hydrology*. MedCrave Group, OK, ISSN: 2576-4454

Awards

- Conferred Distinguished Services Certificate (2012) by Indian Society of Agricultural Engineers, New Delhi.

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Dr. Prabeer Kumar Parhi

Assistant Professor

Qualification

Ph.D (Hydrology)
Title - Optimal Planning and Management of Irrigation Water in a Command Area
M.Tech (Hydrology)

Experience - 8 Years

Specialization - Hydrology

Research Areas

Optimization in Water Resources Engineering

Research Guidance

Ph.D -04 (Continuing)

Publications (Journals)

Total - 12

- **P. K. Parhi**, (2017), Improving Water Application Efficiency of Irrigation Borders Using Modified Water Front Advance-Time Relation, International Journal of Agricultural Research, Science Alert Publication, Vol 12:03, 115-122, eISSN: 2152-2553 pISSN: 1816-4897, DOI: 10.3923/ijar.2017.115.122
- **P.K. Parhi**, (2018), Flood Management in Mahanadi Basin using HEC-RAS and Gumbel's Extreme Value Distribution, Journal of The Institution of Engineers (India): Series A, Springer Online First, <http://www.springer.com/home>, ISSN 2250-2149, UGC Journal No:11114, DOI 10.1007/s40030-018-0317-4
- A, Kumari, S. Mahapatra, H.P. Singh, **P.K. Parhi**, (2018), "Flood Risk Monitoring of Koshi River Basin in North Plains of Bihar State of India, Using Standardized Precipitation Index", International Journal of Advance and Innovative Research, Volume 5, Issue 3 (I) : July – September, Indian Academicians and Researchers Association, ISSN: 2394-7780, UGC Indexed No.:63571
- M. Mayoor, Anjani Kumari, S. Mahapatra, **P, K. Parhi**, H.P. Singh, (2018), "Comparison of Four Precipitation Based Drought Indices in Marathwada Region of Maharashtra, India", International Journal of Advance and Innovative Research, Volume 5, Issue 4 (X) : October-December, Indian Academicians and Researchers Association, ISSN: 2394-7780, UGC Journal Indexed No. : 63571
- D. Kumar, V. K. Tripathi, **P.K. Parhi**, (2018), "Flood Flow Modelling and Embankment Protection of Mahanadi

River Using HEC-RAS", i-manager's Journal on Future Engineering and Technology, i-manager's Publications, Vol. 13 • No. 4 • May – July, ISSN 0973-2632, UGC Indexed No.:6357

Publications (Book/Chapters)

- **P. K. Parhi**, Principles of Hydrology and Hydropower Engineering, Mewar University Press Pvt. Ltd, 2017, ISBN 978-93-85212-31-4

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Dr. Birendra Bharti

Assistant Professor

Qualification

Ph.D. (IIT Roorkee), M.Tech. (IIT KGP)

Experience - 8 Years

Specialization

Hydrological Modelling, Water Resources Planning and management, Soft Computing

Research Areas

Watershed Management, Remote sensing and GIS Application in Water Resources Engineering, Application of Soft Computation Techniques in Hydrology

Research Guidance : Ph.D. (03 Ongoing)

Publications (Journals)

Total - 05

- S. Ali, R. K. Jaiswal, **B. Bharti** and C. Kumari, 2019, Comparative Analysis of Conceptual Rainfall-Runoff Modelling in Chhattisgarh India. International Journal of Advance and Innovative Research, volume-6.2(X), PP 20-28.
- **B. Bharti**, A. Pandey, S.K. Tripathi, D. Kumar, 2017, Modelling of runoff and sediment yield using ANN, LS-SVR, REPTree and M5 model. Journal of Hydrology Research, DOI: 10.2166/nh.2017.153.
- M. K. Goyal, **B. Bharti**, Q. John, A. Jan, A. Pandey, 2014, Modeling of daily pan evaporation in sub tropical climates using ANN, LS-SVR, Fuzzy Logic, and ANFIS. Expert Systems with Applications. Volume 41, PP 5267–5276.
- A. Jadhav, A. Pandey, **B. Bharti**, 2012, Spatial soil erosion and sediment yield modeling of a watershed



using GIS International Agricultural Engineering Journal (IAEJ) in the 3-4 issue of 2012.

Publication (Books/Chapters) Total-03

- R. Pandey, S. Arya, A.K. Keshari, **B. Bharti** (2016) Non-Linear Optimization Modeling for Kosi-Mechi Inter- Basin Transfer Link, New Delhi Publishers, New Delhi, ISBN No. 9385503227.
- S. Arya, R. Pandey, **B. Bharti**, A. Singh, (2016) Spatial Variability of Groundwater Quality Parameters using GIS, New Delhi Publishers, New Delhi, ISBN No. 9385503227.
- P. Sagar, **B. Bharti**, S. Khalko (2018). Prioritization of Subwatershed Using Different Method, New Delhi Publishers, New Delhi, ISBN No. 978-93-86453-08-2

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Dr. Pratibha Warwade
Assistant Professor

Qualification

Ph.D in Water Resources Development and Mangement, IIT Roorkee
Title: Study of Climate Change and its Impact on a Part of Brahmaputra River Basin
M. Tech in Soil and Water Engineering

Experience - 7 Years

Specialization

Watershed Management, Climate Change, Drought Analysis

Research Areas

Climate change impacts on watershed, Use of RS and GIS in Watershed Development and Management, Drought and Flood Monitoring

Research Guidance : Ph.D. (02 Ongoing)

Publications (Journals) Total : 8

- **P. Warwade**, M. Kumar Hardaha, D. Kumar and S. K. Chandniha, Estimation of soil erosion and crop suitability for a watershed through remote sensing and GIS approach. Indian Journal of Agricultural Sciences 84, 1, 2014, Indian Council of Agril . Research, 195022, UGC Indexed No. 20708
- **P. Warwade**, D. Kumari , N. Sharma, Nayan, Trends

in reference evapotranspiration of Dikhow catchment, North East India. International Journal of Tropical Agriculture 33,2 2015, Serials Publication, 2548-755 UGC Indexed No. -7714

- **P. Warwade**, S. Tiwari, S. Ranjan, S. K. Chandniha, J. Adamowski, Spatio-temporal variation of rainfall over Bihar, Journal of water and land development, 36, 1, 2018, Sciendo 1429-7426, UGC Indexed No. 6271
- **P. Warwade**, N. Sharma, B. Ahrens and A. Pandey, Characterization and analysis of the trend of climate variable (temperatures) for the north eastern region of the india". International Journal of recent scientific research, International Journal of recent scientific research 6, 4, 2015, Netherland, 9763031, UGC Indexed No. 46629
- **P. Warwade**, M. K. Hardaha, S. K. Chandniha, D. Kumar, Land use land cover change detection of Patani micro-watershed of Madhya Pradesh using remote sensing data, Scientific Research and Essays, 8, 40, 2013, Academic Journals 1992-2248

Publications (Books/Chapters) Total-03

- **P. Warwade**, N. Sharma, A. Pandey, Analysis of climate variability in a part of Brahmaputra river basin in India, Bodo Ahrens River System Analysis and Management, Prof Nayan Sharma Springer Singapore 97898110710, 2017
- B. K. Tripathi, **P. Warwade**, Influence of Semi-arid Climate on Characterization of Domestic Wastewater, Environmental Pollution Vijay P Singh, Shalini Yadav, Ram Narayan Yadava, Springer Singapore 978-981-10-5792-2, 2018.
- S. Kumar, **P. Warwade** and A. Singh, Calibration and Validation of SWAT model for Simulation of Runoff, Water and Sustainable Development
- A. Singh, V. K. Tripathi, P. K. Parhi, B. Bharti, **P. Warwade** and P. Kumar New Delhi Publishers 9385503227, 2016 ENSO Association with Rainfal, Pratibha Warwade Wastewater Reuse and Watershed Management, Ajai Singh Apple Academic Press, New York, 9780429433986.00, 2019
- **P. Warwade**, S. Chandniha, G. Jhharia, and D. Warwade, Downscaling of Precipitation Using Large Scale Variables, Wastewater Reuse and Watershed Management Ajai Singh, Apple Academic Press, New York, 9780429433986.00, 2019

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DEPARTMENT OF NANO SCIENCE & TECHNOLOGY

The Department of Nano Science & Technology (formerly Centre for Nanotechnology) was established in July 2010 under the School of Engineering and Technology. The department started with offering the Integrated M. Tech. program in Nanotechnology during 2009 as suggested by the advisory board. The Doctoral level programme in Nanotechnology has been started from academic session 2014-15 and the M. Tech. program in Nanotechnology has also been started from academic session 2017- 2018. The department has highly motivated and deserving faculties having ample experiences in teaching and Research. Department faculties have total eighty four (84) publications in the UGC indexed international reputed journals of average impact factor three to four, one (01) international commercialized patents, twelve (12) book chapters. The department is running four (04) projects of approx. two crore funded by the DST, MHRD and UGC. The graduated students of the department are shining their talent to the various institutes of National and international importance in the world.



Dr. Gajendra Prasad Singh
Associate Professor

Qualification

Ph.D. in Materials Science and Engineering
Title: Electrical, giant magnetoresistance and optical properties in silver modified chromium dioxide of core-shell nanostructure)
M. Tech.,
Post-Doctoral : Kansas State University,
Manhattan, Kansas, USA

Experience - 10 Years

Specialization

Nanomaterials for renewal Energy production Material science and Engineering
Physical Sciences

Research Areas

Photocatalytic water splitting, photovoltaic and Supercapacitors, Magnetic materials for energy applications, Dielectric Materials

Research Guidance

- Parameswar Kommu, (2014-2018), Synthesis and characterization nano structured electrode materials for applications of li-ion battery
- Soumita Jana (2014-Ongoing), Synthesis of graphene supported metaloxide nanocomposites for energy storage supercapacitors applications
- Vikash Kumar (2017-Ongoing), Production of hydrogen from photocatalytic water splitting

Research Project

Synthesis and Characterization of Electromagnetic Wave Absorption Properties of Ferrite based Nanocomposites

for High Speed Communication Applications,, Funding Agency: Department of Science and Technology, New Delhi, Amount: 16.44 lakhs, Year: 2016-2019

Patent: 01

Process for High Yield production of Graphene via detonation of Carbon containing materials,
US Patent No.: US 9440857B2,
Publication Date: 13 September 2016
Inventors: Chris Sorensen, Arjun Nepal,
Gajendra Prasad Singh

Publications (Journals)

Total - 22

- S. Jana, N. Singh, A. S. Bhattacharyya and **G. P. Singh** (2018): Synthesis of Self-Assembled rGO-Co3O4 Nanoparticles in Nanorods Structure for Supercapacitor Application, Journal of Materials Engineering and Performance 27(6) (2018) pp. 2741 - 2746, Springer ISSN:, 1059-9495/ 1544 - 1024, UGC Indexed No. 24453
- Parameswar Kommu, **G. P. Singh**, A.S. Bhattacharyya (2018): Sol gel thermolysis process for the synthesis of nano ZnMn2O4 by using PVA with combustion fuel and their electrochemical properties, Journal of Energy Storage 16 (2018) 156-159, Elsevier, ISSN: 2352-152X, UGC Indexed No.7332
- P. S. Das and **G. P. Singh** (2016): Structural, magnetic and dielectric study of Cu substituted NiZn ferrite nanorod, Journal of Magnetism and Magnetic Materials 401 (2016) 918-924, Elsevier, ISSN: 0304-8853, UGC Indexed No.24378
- **G. P. Singh**, K. M. Shrestha, A. Nepal, K. J. Klabunde, C. M. Sorensen (2014): Graphene supported plasmonic photocatalyst for hydrogen evolution in photocatalytic water splitting, Nanotechnology, 25(2014) 265701, IOP, ISSN: 0957-4484/1361-6528, UGC Indexed No.37227
- A. Nepal, **G. P. Singh**, B. N. Flanders and C. M. Sorensen (2013): One-step synthesis of graphene via catalyst-free gas-phase hydrocarbon detonation, Nanotechnology, 24, 245602 (7pp), IOP, ISSN: 0957-4484/1361-6528, UGC Index No.37227



Publications (Book/Chapters)

Total-06

- **G. P. Singh**, N. Singh, R. K. Dey, and K. Prasad (2018) "Hydrothermal Synthesis of Hybrid Nanoparticles for Future Directions of Renewal Energy Applications" in Exploring the Realms of Nature for Nanosynthesis, Editors: Ram Prasad, Anal Jha, Kamal Prasad, Springer Nature Switzerland AG 2018, ISBN: 9783319995700 (online) 9783319995694 (print).
- S. Ram and **G. P. Singh**: "Advanced ZrO₂-based ceramic nanocomposites for optical and other engineering applications" in Composite Materials: Processing, Application, Characterizations, 2017, Editors: Kamal K. Kar, Springer-Verlag Berlin Heidelberg, ISBN: 978-3-662-49512-4 (Print) 978-3-662-49514-8 (Online)
- **G. P. Singh** and S. Ram: "Magnetic Nanofluids: Synthesis, Properties and Applications" in Nanofluids: Research Development and Applications, 2013, Editor: Yuwen Zhang, Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600 Hauppauge, NY 11788-3619, ISBN: 978-1-62618-203-5.

Awards & Honors:

- Fast Track Young Scientists (2011), Department of Science & Technology, Govt. of India
- BOYSCAST Fellowship (2010-2011), Department of Science & Technology, Govt. of India.
- Research Associates (2009), Council of Scientific & Industrial Research, Govt. of India
- Senior Research Fellowship (2008-2009), Council of Scientific & Industrial Research, Govt. of India

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Dr. A. S. Bhattacharyya
Assistant Professor

Qualification

Ph.D. in Materials Engineering, CSIR-NML
 M.Sc. Physics, M.Tech Materials Engineering,
 Post Doc Materials Science from IACS, Calcutta

Experience - 10 Years

Research Guidance

- Parameshwar Kommu, 2018, Synthesis and Characterization of Nano structured electrode materials for Li ion battery
- Ramagiri Praveen Kumar, 2019, Computational Studies of Sputtered thin films and Nanoindentation
- Soumita Jana, 2019, Graphene based Super capacitors
- Kumar Gaurav, Investigation of Titania and Tungsten oxide for photocatalytic applications

Research Project

CoE GEET (joint PI), Funding Agency: MHRD, Govt. of India, Amount- 2.5 Crores, Duration-2015-2020
 Plasma Surface modification of bismaleimide coatings deposited on aluminium sheets, Funding Agency: SERB, Amount-7.1 Lacs, Duration: 2012-2015

Publications (Journals)

- S. Kirti, V. M. Bhandari, J. Jena, **A. S. Bhattacharyya**, Elucidating Efficacy of Biomass derived nanocomposite in Water and waste water treatment, J. Env Management, 226, 2018 Elsevier, ISSN (print): 0733-9372, UGC Indexed No. 7399
- S. Kirti, V. M. Bhandari, J. Jena, **A. S. Bhattacharyya**, Exploiting functionalities of Biomass in nanocomposite development : application in dye removal and disinfection along with process intensification, Clean Tech & Env policies 20, 5 2018 , Springer ISSN: 1618-954X (Print) 1618-9558 (Online).
- **A. S. Bhattacharyya**, S. Priyadarshi, S. Sonu, S. Shivam, S. Anshu, Nanoindentation Stress–Strain for Fracture Analysis and Computational Modeling for Hardness and Modulus, J. Mater. Eng and Perform 27, 6, 2017, Springer ISSN: 1059-9495 (Print) 1544-1024 (Online), UGC Indexed No. 24453
- **A. S. Bhattacharyya**, S. Kumar, A. Sharma, P. P. Dutta, D. Paul, S. B. Patel, G. Bhattacharjee, Metallization and APPJ treatment of Bismaleimide, High performance Polymers, 29, 7, 2015, Sage, ISSN, 0954-0083, UGC Indexed No. 18053
- **A. S. Bhattacharyya**, K. Gaurav, N. Kumari, P. Kommu, S. K. Raj, P. Prabhakar, Influence of substrate nature on the growth of copper oxide thin films: Cu oxide films: substrate nature, A Surface and interface Analysis, 48, 12, 2016 Wiley Online ISSN:1096-9918, UGC Indexed No. 22226

Publications (Book/Chapters)

- S. Mishra; **A. S. Bhattacharyya** Adhesion and indentation fracture behaviour of SiCN Nanocomposite coatings deposited by magnetron sputtering, Silicon based Nanomaterials HLi, J Wu, Z M. Wang Springer



9.78146E+122013

- **A. S. Bhattacharyya**; R. P. Kumar; P. Bharadwaj Computational methods in various aspects of materials performance, Lap Lambert 978-613-8-23540-8, 2018
- **A. S. Bhattacharyya**, Substrate effect and Nanoindentation failure, J. Chengebroyam Lap Lambert 978-613-9-82286-7, 2018
- **A. S. Bhattacharyya**, Nanocomposite SiCN coatings Lap Lambert 978-613-8-38960-6, 2018
- **A. S. Bhattacharyya**, Processing and Characterization of Bismaleimide, Lap Lambert 978-613-7-42724-8



Dr. Lawrence Kumar
Assistant Professor

Qualification

Ph.D. in Magnetic Nanomaterials area/ IIT Patna, Title: "Crystal Structure and Magnetic Anisotropy of Substituted Cobalt Ferrite"

M. Tech. in Materials Science and Technology/ IIT-BHU-Varanasi

Experience - 8 Years

Specialization -

Materials Science, Nanoscience, X-ray diffraction

Research Areas

Magnetic Nanomaterials, Multifunction Nanocomposite and Complex Oxide Materials, Nanomaterials for Energy Application and Structure-Property Correlation

Research Guidance

- Durgesh Kumar, 2016, Numerical Modelling and Simulation of Multijunction Solar Cell.
- Sanjeet Kumar Paswan, 2018, Synthesis of NiFe_{2-x}MxO₄, x=Al, Mn, La, Sm, Ho) and their structural, magnetic, electric and optical properties

Publications (Journals)

- S. Supriya, **L. Kumar**, M. Kar, Optimization of Dielectric Properties of PVDF-CFO Nanocomposites, POLYMER COMPOSITES, 40, 3, 2019, Wiley 1548-0569, UGC Indexed No. 38111
- **L. Kumar**, P. Kumar, V. Kuncser, S. Greculeasa, B. Sahoo, M. Kar, 2 Strain induced magnetism and super exchange interaction in Cr substituted nanocrystalline cobalt ferrite, Materials Chemistry and Physics, 211, 2018, Elsevier, 0254-0584, UGC

Indexed No. 3971

- **L. Kumar**, P. Kumar, M. Zope, M. Kar, 3High Temperature magnetic behaviour of 10% Aluminium substituted Cobalt Ferrite, Journal of Superconductivity and Novel Magnetism 30, 6 2017, Springer 1557-1939, UGC Indexed No. 10715
- S. Kumari, V. Kumar, P. Kumar, M. Kar, **L. Kumar**, Structural and magnetic properties of nanocrystalline yttrium substituted cobalt ferrite synthesized by citrate precursor technique, Advanced Powder Technology, 26, 2015 Elsevier, 0921-8831, UGC Indexed No. 11655
- **L. Kumar**, P. Kumar, M. Kar, Non-linear behavior of coercivity to the maximum applied field in La³⁺ substituted nanocrystalline cobalt ferrite, Physica B: Condensed Matter, 448, 2014 Elsevier 0921-4526, 30753, UGC Indexed No. 2017

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Mobile : 9771630347



Dr. Ramesh Oraon
Assistant Professor

Qualification

Ph.D. in Nanoscience, IIT ISM Dhanbad
Title: "Synthesis and Characterization of Nanoclay based hybrid electrode materials for high performance supercapacitor"

M.Sc. (Chemistry)

Experience - 1.3 Years

Research Project

- Development of self-assembled hierarchical porous nanostructured carbonaceous metal oxide conducting polymer based hybrid electrode materials and their electrochemical study SERB (EMEQ), Funding Amount: 42.66 lakhs Duration: 2019-2022
- Development and electrochemical study of organic-inorganic based hybrid electrode materials: Towards

supercapacitor and sensing application, Funding Agency: DST, New Delhi, Funding Amount: 42 Lakhs, Duration: 2019-2022

10.1007/s11581-019-02903-y, 2019, Springer 1862-0760 8853

Publications (Journals)

- P. Kumari, S. Daripa, **R. Oraon** and B. K. Kuila, Hierarchical polyaniline-MnO₂ reduced graphene oxide ternary nanostructures with whisker like polyaniline for supercapacitor, *Koomkoom Khawas, Chemistry Select* 2, 35, 2017, Wiley 2365-6549
- B. Raj, **R. Oraon** and A. K. Padhy, Simple and cost effective sonochemical preparation of ternary NZnO-Mn₂O₃@rGO nanohybrid: a potential electrode material supercapacitor and ammonia sensing, *Ionics* DOI:

Publications (Book/Chapters)

- B. Raj, A. K. Padhy, G. P. Singh, R. K. Dey and **R. Oraon** Imidazole framework based metal oxide nanoparticles photocatalysts: An approach towards amputation of organic pollutants from water, *Nano-Materials as Photocatalysts* Pradeep Singh, P. K. Mishra, Dhanesh Tiwary Elsevier, Under Processing

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SCHOOL OF NATURAL RESOURCE & MANAGEMENT

Department of Environmental Sciences

Department of Geoinformatics



DEPARTMENT OF ENVIRONMENTAL SCIENCE

The Department of Environmental Sciences (formerly Centre for Environmental Sciences) was established in July 2012 under the aegis of School of Natural Resource Management. The department is presently offering five years integrated M. Sc., two years M. Sc., and Ph. D. in Environmental Sciences. The department has diversified research and academic interest in various earth, atmospheric, chemical, and biological processes to understand the linkage between ecological and social processes to attain a more sustainable environment. We have a highly interdisciplinary team working on the complex interactions between different components of the environment to determine its impacts on food and livelihood security, climate change mitigation and adaptation through green technologies as well as associated ecosystem services in the immediate and long-term perspectives. Our approach is to underpin our research with a strong theoretical framework that is firmly imbedded in leading edge experimentation and extension program. This will help in facilitate the new generation of students to resolve the real-world problems through application based research.



Dr. Manoj Kumar
Professor

Qualification

Ph.D. in Agriculture Meteorology (BHU Varanasi)
Title - Some Studies in Agrometeorology (Specialization: Land Surface Processes over Sabarmati river basin using LASPEX data)
M.Sc. (Tech) In Geophysics (Meteorology)
Post Doctoral in DST-Young Scientist Fellowship (2002-2005)
Title- Hydrological modelig of land surface processes over Sabarmati river basin

Experience - 23 years

Specialization

Atmospheric Sciences, Environmental Sciences, Agricultural Meteorology and land surface process

Research Areas

Land surface processes & Energy balance, Aerosol & Impacts on monsoon, Climatology and Synoptic Meteorology

Research Guidance

- Smriti Priya, Characterisation and Effects of aerosol Radiative properties over mining region of Jharkhand, 2014
- Poulumi Chakraborty, Modeling of land surface atmosphere transfer interaction during pre-monsoon thunderstorm activity over extreme eastern end of monsoon trough axis, 2014
- Shashank Sri, Hydrological Modelling of land surface

processes over extreme eastern end of monsoon, 2015

Research Project

Projects handled: Total 16 R & D projects handled with total outlay of Rs. 655.69 Lacs

Research Collaborations:

- Established Land Surface Atmosphere and Micrometeorological Observational System (LATMOS) in the Institute under Dept. of Science & Technology, Govt's mega field campaign for CTCZ and STORM Scheme at BIT Mesra. Actively participated in DST's and MoES' STORM field campaign Other collaborative institutes are as follows:
- DST/MoES's STORM and CTCZ field programme
- ISRO's GBP programme – Out of 8 ISRO-GBP programme, involved in its 5 programme
- Involved in the state level field campaign on Lightning protection system
- DST/MoES, ISRO HQ. Bangalore, SPL VSSC Thiruvananthapuram, SAC Ahmedabad under project mode
- Involved in ISRO based GPS-Sonde System for RS/RW system to study thunderstorm activity and Planetary Boundary Layer study under SPL's ABLN&C programme & under ISRO's PRWONAM scheme.

Publications (Journals)

Total - 72

- S. Shree & **M. Kumar**, 2019, Analysis of seasonal and annual rainfall trends for Ranchi district, Jharkhand, India, Environ Earth Sci (2018) 77: 693. <https://doi.org/10.1007/s12665-018-7884-6>, Springerlink Publ.
- R. Latha, B.S. Murthy, K. Lipi, M. K. Srivastava, **M. Kumar**, 2018, Absorbing aerosols, possible implication to crop yield - a comparison between IGB stations, Aerosol and Air Quality Research, 17: 693–705, 2017.
- C. Sagarika, N. Srivastav, **M. Kumar**, 2018, Vertical structure of Atmospheric Boundary Layer over Ranchi during the summer monsoon season, <https://doi.org/10.1007/s00703-018-0600-y>, Springer Nature Publ.

Publications (Book-1, Chapters-5)



- A. Kumar, **M. Kumar**, N. C. Mahanti, Land surface and micrometeorological process over trough,
- P. Chakravarty & **M. Kumar**, Role of floral species in pollution remediation and augmentation of micrometeorological conditions and microclimate: An integrated approach, In: Phytomanagement of polluted sites (Springer Publ), Eds.: V.C.Pandey & K. Baudhd, 2018.
- P. Chakravarty, K. Baudhd & **M. Kumar**, 2017, Phytoremediation: A multidimensional and ecologically viable practice for the cleanup of environmental contaminants. In: Phytoremediation Potential of Bioenergy Plants, Eds.: Baudhd, Kuldeep, Singh, Bhaskar, Korstad, John, Springer Publ, 978-981.
- J. Singh, **M. Kumar** and B. K. Bhattacharya, 2012, Solar energy potential of two metropolitan cities of India, In: Infrastructure-The Key to Development, McMillan Publ., Eds.: Rudra P. Pradhan. Pp.652-653.
- **M. Kumar** and A. M. Shekh, 2005, Land surface processes over Sabarmati river basin (LASPEX).In: Disaster Management, Narosa Publ, Eds.: N. C. Mahanti. pp. 124-138.
- **M. Kumar**, A. M. Shekh & V. Pandey, 2005, Coupling of evapotranspiration rate, hydrological cycle and land surface processes over Sabarmati river basin. Disaster Management, Narosa Publ, Eds.: N C Mahanti. pp. 113-123.

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Dr. Bhaskar Singh
Assistant Professor

Qualification

Ph.D. in Applied Chemistry/IIT(BHU)
M.Phil in Environmental Sciences & Engineering
Title - Development and characterization of biodiesel from non-edible feedstocks (*P. pinnata*, *M. indica*, and *S. Triguga*)
M.Sc. in Environmental Sciences
Post Doc in Applied Chemistry, IIT (BHU) Varanasi
Post Doc in the Institute of Water and Wastewater

Technology, Durban University of Technology, Durban, South Africa

Experience - 9 Years

Specialization

Renewable Energy, Rainwater Harvesting, Solid Waste Management

Research Areas -

Biodiesel, Novel Heterogeneous Catalysis, Composting & Vermicomposting

Research Guidance

- Dipesh Kumar, Development of biodiesel from *Milletia pinnata* (karanja) oil using novel heterogeneous catalysts and improvement of its fuel properties, 2014 (Thesis Submitted)
- Priyanka Bharti, Development of biodeisel from non-edible feedstocks using nanocatalysts, 2015
- Rupam Bharti, Synthesis of biodiesel from waste cooking oil using heterogeneous catalysts, 2016
- Sweta, Development of health risk index by assessing heavy metals in soil, sediment, water and vegetables cultivated in the Subarnarekha river basin of Ranchi region, India, 2017

Research Project

UGC –BSR Research Start-UP-Grant Project Funding Agency - UGC, Amount - Rs. 6,00,000/- Duration - 2015-18

Publications (Journals)

Total - 40

- D. Kumar, **B. Singh**, BaZrO₃ and Cs-BaZrO₃ catalysed transesterification of *Milletia pinnata* oil and optimization of reaction variables by response surface Box-Behnken design, 2019, Elsevier, ISSN (Print/Online) 0960-1481, UGC Indexed No. 10267
- D. Kumar, **B. Singh**, *Tinospora cordifolia* stem extract as an antioxidant additive for enhanced stability of karanja biodiesel, 2018, Elsevier, ISSN (Print/Online) 0926-6690, UGC Indexed No. 20968
- D. Kumar, **B. Singh**, A. Banerjee, S Chaterjee, Cement wastes as transesterification catalysts for the production of biodiesel from Karanja oil, 2018, Elsevier, ISSN (Print/Online) 0959-6526, UGC Indexed No. 21920
- D. Kumar, **B. Singh**, Role of biomass supply chain management in sustainable bioenergy production, 2017, Taylor and Francis, ISSN (Print/Online) 1759-7269, UGC Indexed No. 14652
- D. Kumar, **B. Singh**, J. Korstad, Utilization of lignocellulosic biomass by oleaginous yeast and bacteria for production of biodiesel and renewable diesel, 2017, Elsevier, ISSN (Print/Online) 1364-0321, UGC Indexed No. 10266



DEPARTMENT OF ENVIRONMENTAL SCIENCE

Publications (Book/Chapters)

Total - 17

- A. B. Avagyan & **B. Singh**, Authored Book Title: Biodiesel: Feedstocks, Technologies, Economics and Barriers, 2019, Springer Nature, ISBN No. 978-981-13-5745-9
- **B. Singh**, K. Bauddh, F. Bux, Edited Book Title: Algae & Environmental Sustainability, 2015, Springer India, ISBN No. 978-81-322-2639-0
- K. Bauddh, **B. Singh**, J. Korstad, Edited Book Title: Phytoremediation potential of bioenergy plants, 2017, Springer Nature, ISBN No. 978-981-10-3083-3
- S.K. Gupta, F. A. Ansari, K. Bauddh, **B. Singh**, A.K. Nema, K.K. Pant, Book Chapter Title: Harvesting of microalgae for biofuels: Comprehensive performance evaluation of natural, inorganic, and synthetic flocculants, 2017, Springer Nature, ISBN No. 978-3-319-50654-8
- D. Kumar, **B. Singh**, K. Bauddh, Book Chapter Title: Greening the Indian Transport Sector: Role of Biodiesel, 2018, Springer Nature, ISBN No. 978-3-319-50654-9

Awards/Fellowship

- Pondicherry University Gold Medal awarded in M.Phil. (Environmental Science & Engineering)
- CSIR Research Associateship
- CSIR Senior Research Fellowship

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Dr. Kuldeep Bauddh
Assistant Professor

Qualification

Ph.D. in Environmental Science
M.Sc. In Environmental Science

Experience - 6 Years

Specialization

Environmental Pollution, Phytoremediation, Sustainable Agriculture

Research Areas

Environmental Pollution, Phytoremediation, Sustainable Agriculture

Research Guidance

- Jyoti Mehta, Phytoremediation of Metal nanoparticles

from the contaminated aquatic ecosystems by using aquatic macrophytes, 2017

- Ankit, Microbe assisted phytoremediation using invasive species for removal of heavy metals from overburdened mining dump sites near Dhanbad, Jharkhand, 2018
- Lala Saha, Potential of bioenergy plants for phytomanagement of mining dump sites at Jharkhand, 2018

Research Project

- Effects of cadmium (Cd) on the yield and quality of Ricinus communis seeds and oil, Funding Agency - UGC, Amount - 6 lacs, Duration - 2015 - 2017
- Phytomanagement of the mining dump soil of West Singhbhum, Jharkhand by using bioenergy plants Funding Agency - SERB, Amount - 2,676,000 Duration - 2018- 2021

Publications (Journals)

Total - 31

- **K. Bauddh** and R.P. Singh, Ricinus communis L. as a value added alternative for restoration of cadmium contaminated and degraded agricultural ecosystem, 2016, Springer, ISSN (Print/Online) 0007-4861, UGC Indexed No. 9552
- **K. Bauddh**, A. Kumar, S. Srivastava, R.D. Tripathi and R.P. Singh, A study on effect of cadmium on antioxidative defense system and alteration in different functional groups in castor bean and Indian mustard, 2016, Taylor and Francis, ISSN (Print/Online) 0365-0340, UGC Indexed No. 8326
- **K. Bauddh** and R.P. Singh, Effects of organic and inorganic amendments on bio-accumulation and partitioning of Cd in Brassica juncea and Ricinus communis, 2015, Elsevier, ISSN (Print/Online) 0925-8574, UGC Indexed No. 12429
- **K. Bauddh**, Kripal Singh and R.P. Singh, Ricinus communis: A robust plant for bio-energy and phytoremediation of toxic substances from contaminated soil, 2015, Elsevier, ISSN (Print/Online) 0925-8574, UGC Indexed No. 12429
- **K. Bauddh** and R.P. Singh, Assessment of Metal Uptake Capacity of Castor Bean and Mustard for Phytoremediation of Nickel from Contaminated Soil, 2015, Taylor and Francis, ISSN (Print/Online) 1088-9868, UGC Indexed No. 12429

Publication (Book/Chapters)

- **K. Bauddh**, B. Singh and J. Korstad, Phytoremediation Potential of Bioenergy Plants (Edited Book), 2017, Springer Nature, ISBN No. 978-981-10-3084-0
- V. C. Pandey and **K. Bauddh**, Phytoremanagement of Polluted Sites (Edited Book), 2019, Elsevier, ISBN No. 978-012-81-3912-7
- J. Tiwari, Ankit, Sweta, S. Kumar, J. Korstad and **K. Bauddh**, Book chapter : Eco-restoration of



polluted aquatic ecosystems through rhizofiltration in Phytomanagement of Polluted Sites, 2019, Elsevier, ISBN No. 978-012-81-3912-7

- P. Chakraborty, **K. Bauddh** and M. Kumar, Book chapter: Phytoremediation: A Multidimensional and Ecologically Viable Practice for the Cleanup of Environmental Contaminants, 2017, Springer Nature, ISBN No. 978-981-10-3084-0
- **K. Bauddh**, M. Sainger, S. Kumar, P.A. Sainger, R. P. Singh, Book chapter : Biotechnological approaches to mitigate adverse effects of extreme climatic factors on plant productivity, 2015, ISBN No. 978-81-322-2660-4

Contact :

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Mobile : 9934250641



Dr. Purabi Saikia

Assistant Professor

Qualification

Ph.D. in Forestry/ North Eastern Regional Institute of Science and Technology (Deemed University)

Title - Population structure and conservation practices of *Aquilaria malaccensis* Lam. in homegardens of upper Assam and its prospects in socio-economic development
M.Sc. in Botany

Post Doc in Environmental Sciences from Tezpur University, Assam

Title - Comparative study on regeneration pattern and population status of cultivated variants of *Aquilaria malaccensis*: a critically endangered tree species of India

Experience - 8 Years

Specialization

Plant Ecology, Conservation of rare endangered plant species, Plant Systematics

Research Areas

Plant Ecology, Conservation of rare endangered plant species, Plant-Soil Interactions

Research Guidance

- Rahul Kumar, Floristic Analysis of Sal Forests within Different Watershed of Ranchi, Jharkhand, Eastern India, 2015

- Rima Kumari, Biomass estimation, carbon sequestration potential and tree diversity of urban and peri-urban vegetation of Ranchi, Jharkhand, 2018

Research Projects

- Monitoring and Mapping of Forest Communities with special reference to Invasive Plant Species using Airborne Visible/Infrared Imaging Spectrometer-Next Generation (AVIRIS-NG) and Sentinel-1 SAR images, Funding Agency - SAC, Ahmedabd, Govt. of India, Amount - 20.5 lakh
Duration - 2018 - 2021
- Monitoring spatio-temporal dynamics of above ground biomass of forests ecosystems using airborne L & S band SAR images, Funding Agency - SAC, Ahmedabd, Govt. of India
Amount - 24.3 lakh, Duration - 2018 - 2021
- Mapping and Quantitative Assessment of Plant Resources and its Distribution in Madhya Pradesh, Central India, Funding Agency - DBT, New Delhi, Amount - 212.2644 lakh, Duration - 2017 - 2021
- Status, Distribution and Composition of Sal Forests of Ranchi, Jharkhand, East India in relation to Microclimatic and Edaphic Conditions
Funding Agency - SERB, New Delhi, Govt. of India
Amount - 29.36 lakh Duration - 2016 - 2019
- Phytosociological analysis of forests of Ranchi, Jharkhand, Funding Agency - UGC, New Delhi, Amount - 6 lakhs, Duration - 2015 - 2017

Publications (Journals)

Total - 19

- B.S. Steidinger, T.W. Crowther, J. Liang.... **P. Saikia** et al., Climatic control of decomposition drive the global biogeography of forest tree symbioses, 2019, Springer Nature, ISSN (Print/Online) 0028-0836 (P); 1476-4687 (E), UGC Indexed No. 37329
- A. Kumar, B.S.P.C. Kishore, **P. Saikia**, J. Deka, S. Bharali, L.B. Singha, O.P. Tripathi, and M.L. Khan, Tree diversity assessment and above ground forests Biomass estimation using SAR Remote Sensing: A case study of Higher Altitude vegetation of North-East Himalaya, India, 2019, Elsevier B.V., ISSN (Print/Online) 01474-7065 (P); 1873-5193 (E), UGC Indexed No. 30824
- R. Kumar and **P. Saikia**, Floristic analysis and dominance pattern of a Sal (*Shorea robusta* C. F. Gaertn.) Forests of Ranchi, Jharkhand, Eastern India, 2019, Springer Nature, ISSN (Print/Online) 1007-662X (P); 1993-0607 (E), UGC Indexed No. 28231
- S. Shoener, J. Davies, **P. Saikia**, J. Deka, S. Bharali, O.P. Tripathi, L.B. Singha, M.L. Khan and S. Dayanandan, Phylogenetic diversity patterns in Eastern Himalayan forests reveal evidence for environmental filtering of evolutionarily distinct lineages, 2018, Wiley Online



DEPARTMENT OF ENVIRONMENTAL SCIENCE

Library (Ecological Society of America), ISSN (Print/Online) 2150-8925, UGC Indexed No. 12536

- **P. Saikia**, J. Deka, S. Bharali, A. Kumar, O.P. Tripathi, L.B. Singha, S. Dayanandan and M.L. Khan, Plant diversity patterns and conservation status of Eastern Himalayan forests in Arunachal Pradesh, Northeast India, 2017, Springer Nature, ISSN (Print/Online) 2197-5620, UGC Indexed No. 43165

Publications (Book/Chapters)

Total - 07

- R. Kumari, S.K. Shukla, K. Parmar, N. Bordoloi, A. Kumar and **P. Saikia**, Wetlands conservation and restoration for ecosystem services and halt biodiversity loss: An Indian Perspective, 2019, Springer India, ISBN No. 978-981-13-7664-1
- R. Kumari, A. Banerjee, R. Kumar, A. Kumar, **P. Saikia*** and M.L. Khan, Deforestation in India: Consequences and Sustainable Solutions, 2019, IntechOpen, UK, ISBN No. 978-1-78923-834-1
- **P. Saikia** and M.L. Khan, Floristic diversity of North East India and its Conservation Initiatives, 2018, M/s. Bishen Singh Mahendra Pal Singh, Dehradun, India, ISBN No. 978-81-211-0985-7
- **P. Saikia**, A. Kumar and M.L. Khan, Agroforestry: A sustainable land use system for livelihood security and climate change mitigation, 2017, New India Publishing Agency, New Delhi, India, ISBN No. 978-93-86546-06-7
- **P. Saikia**, A. Kumar and M.L. Khan, Biodiversity status and climate change scenario in Northeast India, 2016, Springer International Publishing, Switzerland, ISBN No. 978-319-31013-8

Awards/Fellowship

- DBT-Research Associate from DBT-Gol, New Delhi in June 2011
- International Travel Support Scheme from SERB, Gol, New Delhi in September 2013 to participate in 1st International Scientific Symposium on Agarwood (ISSA) at Universiti Putra Malaysia
- International Travel Support Scheme from SERB, Gol, New Delhi in September 2017 to participate in GFBI-FECS joint symposium at Beijing Forestry University

Contact :

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Mobile : 7903564200



Dr. Nirmali Bordoloi

Assistant Professor

Qualification

Ph.D. in Environmental Science, Tezpur University
Title - Development of strategies for mitigation of greenhouse gas-nitrous oxide (N_2O) emission from field grown rice (*Oryza sativa*) and wheat (*Triticum aestivum*)
M.Sc. In Environmental Science

Experience - 2 Years

Specialization

Environmental Science, Soil Science, Agricultural greenhouse gas emission and mitigation

Research Areas -

Agricultural greenhouse gas emission and mitigation, Environmental soil science, Carbon sequestration in agriculture and plant physiology.

Research Guidance

- Khushboo Gupta, Soil quality management and carbon sequestration under maize-wheat based cropping system in Eastern India, 2018

Research Project

- Impact of organic amendments on carbon sequestration and soil quality under maize-wheat cropping system, Funding Agency - UGC
Amount - 6 Lakhs, Duration - 2018 - 2020
- Fertilizer Management for Mitigation of Greenhouse Gas Nitrous Oxide (N_2O) Emission from Rice-Wheat Cropping System of Jharkhand, Eastern India
unding Agency - SERB, Amount - 39.29 Lakhs
Duration - 2019 - 2022

Publications (Journals)

Total - 7

- **N. Bordoloi**, K.K. Baruah P. Bhattacharyya and P. Gupta, Impact of nitrogen fertilization and tillage practices on nitrous oxide emission from a summer rice ecosystem, 2019, Taylor and Francis, ISSN (Print/Online) 0365-0340 (Print) 1476-3567 (Online), UGC Indexed No. 8326
- **N. Bordoloi**, K.K. Baruah and A.J. Thakur, Effectiveness of plant growth regulators on emission reduction of greenhouse gas (nitrous oxide): An approach for cleaner environment, 2018, Elsevier, ISSN (Print/Online) 0959-6526 1879-1786, UGC Indexed No. 21920

- **N. Bordoloi** and K.K. Baruah, Effect of foliar application of plant growth regulators on nitrous oxide (N_2O) emission and grain yield in wheat, 2017, Springer, ISSN (Print/Online) 9441344 16147499, UGC Indexed No. 19836
- **N. Bordoloi** and K.K. Baruah, A 2-year field assessment on the effect of slow release of nitrogenous fertilizer on N_2O emission from wheat cropping system, 2016, CSIRO, ISSN (Print/Online) 1838675X 18386768, UGC Indexed No. 33258
- **N. Bordoloi**, K.K. Baruah and T.K. Maji, Nitrous oxide

emission from transplanted rice field in alluvial soil as influenced by management of nitrogen fertilizer. Soil Use and Management, 2016, Wiley-Blackwell, ISSN (Print/Online) 2660032 14752743, UGC Indexed No. 33263

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DEPARTMENT OF GEOINFORMATICS

The Department of Geoinformatics (formerly Centre for Land Resource Management) started functioning in January 2012, under the School of Natural Resource Management. The department offers various courses in Geoinformatics. These courses are designed keeping the advances of Remote Sensing, GIS and GPS technologies and its integration with geosciences, 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 Geoinformatics in the day-today life as well as in the sustainable development of the society and the environment. The department is equipped with basic and state of artequipments, 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 department 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.



Dr. A. C. Pandey
Professor

Qualification

Ph.D. in Himalayan Geology

Title -Geology and Morphotectonics studies in parts of Lesser Garhwal Himalaya (Tehri-Uttarkashi districts), Uttranchal.

M.Sc. (Applied) Geology

Experience - 21 Years

Specialization

Water Resources, Disaster Management, Himalayan Geodynamics

Research Areas

Water Reseources and Glaciology, Forest Health Assesment, Natural Hazard Risk Modeling

Research Guidance (Ongoing)

- Binita Kumari, Spatio temporal forest cover mapping in Palamu tiger reserve forest using earth observing satellite, 2013
- Saurabh Kumar Gupta, Forest change and fragmentation using advance geospatial techniques in Hazaribagh wildlife sanctuary in Jharkhand, 2013
- Tauseef Ahmed, Geoinformatics based flood hazard and risk assessment in Kashmir Valley, 2014
- Satendra Kumar, Spatio temporal evaluation of forest stress through forest fire and forest fragmentation studies focused on elephant corridor and wildlife habitat, 2015

- Stuti, Water resource assessment and drought hazard and risk progresses in a part of Koel basin Jharkhand, India by using geoinformatics technology, 2015
- Basheer Ahammed KK, Analysis of Spatio temporal dynamics of coastlines and socio physical vulnerability under climate variability and extreme events in eastern coast of India, 2015
- Gaurav Tripathi, Flood inundation characterization through remote sensing for flood risk mapping and monitoring in parts of North Bihar state, India, 2016
- Shahbaz Ahmad, Estimating Primary Productivity, Forest health and Above Ground Biomass Using Remote Sensing Techniques over Parambikulam Tiger Reserve, Kerala, 2018

Research Projects (Ongoing)

- Monitoring and Mapping of Forest Communities with special reference to Invasive Plant Species using Airborne Visible/Infrared Imaging Spectrometer-Next Generation (AVIRIS-NG) and Sentinel-1 SAR images, Funding Agency - SAC, Ahmedabd, Govt. of India, Funding Amount - 20.5 lakhs, Duration - 2018-21
- Monitoring spatio-temporal dynamics of above ground biomass of forests ecosystems using airborne L & S band SAR images, Funding Agency - SAC, Ahmedabd, Amount - 22.4 lakhs, Duration - 2018-21
- Retrieval of biophysical parameters and estimation of gross primary productivity in Indian forests using GISAT, Funding Agency - SAC, Ahmedabd, Amount - 22.4 lakhs, Duration - 2017-20
- Detailed lithological, structural and geomorphological mapping and modelling for mineral prognostication in parts of Singhbhum Shear Zone, Jharkhand, India using Airborne L & S bands SAR images, Funding Agency - SAC, Ahmedabd, Amount - 25.24 lakhs, Duration - 2017-20
- Airborne Hyper spectral data forest health and Biomass



Estimation in Sholayar RF Kerala, Funding Agency - SAC, Ahmedabd, Amount - 23 lakhs, Duration - 2017-20

- Flood prognosis and inundation mapping using Airborne SAR (L bands) images, Funding Agency - SAC, Ahmedabd, Amount - 24.03 lakhs, Duration - 2017-20

Publications (Journals) Total - 56

- A. S. Tirkey, M. Ghosh, **A.C. Pandey**, S. Shekhar, Assessment of climate extremes and its long term spatial variability over the Jharkhand state of India, 2017, Elsevier, ISSN (Print/Online) 11109823, UGC Indexed No. 13421
- A. P. Kushwaha & **A. C. Pandey** & S. S. Mahto, Assessment of Runoff Pattern and Relationship to Sediment Yield of Bhagirathi–Alaknanda River Basin Using Geospatial Techniques. Analysis (2018) 2:9, 2018, Springer International Publishing, ISSN (Print/Online) 25098810, UGC Indexed No. 62475
- T. Ahmad, **A. C. Pandey** and A. Kumar, Flood hazard vulnerability assessment in Kashmir Valley, India using geospatial approach, 2018, Elsevier, ISSN (Print/Online) 1474-7065 (P); 1873-5193 (E), UGC Indexed No. 30824
- B. Ahammed, K. K., & **A. C. Pandey**, "Geoinformatics based Assessment of Coastal Multi-Hazard Vulnerability along the East Coast of India" 2019, Springer International Publishing, ISSN (Print/Online) 23663294, UGC Indexed No. 63298
- B. Ahammed, K. K., & **A. C. Pandey**, Shoreline morphology changes along the Eastern Coast of India, Andhra Pradesh by using geospatial technology, 2019, Springer International Publishing, ISSN (Print/Online) 14000350, UGC Indexed No. 22015
- S. Ahmad, **A.C. Pandey**, A. Kumar, N. Lele, B. Bhattacharyya, Forest health estimation in Sholayar Reserve Forest, Kerala using AVIRIS-NG hyperspectral data, 2019, Springer International Publishing, ISSN (Print/Online) 23663294, UGC Indexed No. 63298

Publications (Book/Chapters)

- Diksha, A. Kumar, **A. C. Pandey**, and M. L. Khan, Urban Risk and Resilience to Climate Change and Natural Hazards: A Perspective from Million-Plus Cities from Indian Subcontinent, 2019, Wiley
- P. Rana, J. Chockalingam and **A.C. Pandey**, 2017, Space-Time Integrated Landslide Hazard Zonation near Tehri Dam in Uttarakhand, India: Integrated Landslide Hazard Zonation. Studies" 3.ch007, IGI

Awards/Fellowship

- NASA Servir Fellowship In 2013

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Dr. Amit Kumar
Assistant Professor

Qualification

Ph.D. in Technology (Remote Sensing), Birla Institute of Technology, Mesra
Title - Assessment and Comparative Evaluation of Urban Environment of Ranchi Township
M.Sc. in Geoinformatics

Experience - 10 Years

Specialization

Human settlement and Urban planning, Environmental monitoring and modelling, SAR & Hyperspectral Remote Sensing

Research Areas

Urban hazard-risk and resilience, Vegetation analyses including plant invasion, forest productivity, SAR & Hyperspectral Remote Sensing

Research Guidance

- Tauseef Ahmed, "Geoinformatics based Flood Hazard and Risk Assessment in Kashmir Valley, India", 2014
- Diksha, Evaluating Urban Growth, Hazard-Risk and Resilience in Major Urban Centers in Himalayas using Geoinformatics, 2016
- B.S.P.C. Kishore, Mapping and Assessment of Invasive Plant Species in (Mudumalai Forest Region) Tamilnadu, India, 2018

Research Projects

- Monitoring and Mapping of Forest Communities with special reference to Invasive Plant Species using Airborne Visible/Infrared Imaging Spectrometer–Next Generation (AVIRIS–NG) and Sentinel-1 SAR images, Funding Agency - SAC, Ahmedabd, Amount - 20.5 lakh, Duration : 2018-21
- Monitoring spatio-temporal dynamics of above ground biomass of forests ecosystems using airborne L & S band SAR images, Funding Agency - SAC, Ahmedabd, Amount - 22.4 lakh, Duration - 2018-21
- Mapping and Quantitative Assessment of Plant Resources and its Distribution in Madhya Pradesh, Central India, Funding Agency - DBT, New Delhi, Amount - 212.2644



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- laks, Duration - 2017-21,
- Retrieval of biophysical parameters and estimation of gross primary productivity in Indian forests using GISAT, Funding Agency -SAC, Ahmedabd, Govt. of India, Funding Amount - 22.4 lakh
Duration - 2017-20
 - Detailed lithological, structural and geomorphological mapping and modelling for mineral prognostication in parts of Singhbhum Shear Zone, Jharkhand, India using Airborne L& S bands SAR images, Funding Agency -SAC, Ahmedabd, Amount - 25.24 lakhs, Duration - 2017-20
 - Airborne Hyper spectral data forest health and Biomass Estimation in Sholayar RF Kerala, Funding Agency -SAC, Ahmedabd, Amount - 23 lakhs, Duration - 2017-20
 - Flood prognosis and inundation mapping using Airborne SAR (L bands) images, Funding Agency - SAC, Ahmedabd, Amount - 24.03 lakhs, Duration - 2017-20

Publications (Journals)

Total - 32

- P. Tripathy and **A. Kumar**, Monitoring and modelling of spatio-temporal urban growth of Delhi, India using cellular automata and geoinformatics, 2019, Elsevier, ISSN (Print/Online) "0264-2751 (P), 1873-6084(E)", UGC Indexed No. 18676
- **A. Kumar**, B.S.P.C. Kishore, P. Saikia, J. Deka, S. Bharali, L.B. Singha, O.P. Tripathi, and M.L. Khan, Tree diversity assessment and above ground forests Biomass estimation using SAR Remote Sensing: A case study of Higher Altitude vegetation of North-East Himalaya, India, 2019, Elsevier, ISSN (Print/Online) "1474-7065 (P); 1873-5193 (E)", UGC Indexed No. 30824
- T. Ahmad, A. C. Pandey and **A. Kumar**, Flood hazard vulnerability assessment in Kashmir Valley, India using geospatial approach, 2018, Elsevier, ISSN (Print/Online) 1474-7065 (P); 1873-5193 (E), UGC Indexed No. 30824
- Diksha and **A. Kumar**, Analysing urban sprawl and land consumption patterns in major capital cities in the Himalayan region using Geoinformatics, 2017, Elsevier, ISSN (Print/Online) 0143-6228 (P), 1873-7730 €, UGC Indexed No. 15955
- P. Saikia, J. Deka, S. Bharali, **A. Kumar**, O.P. Tripathi, L.B. Singha, S. Dayanandan and M.L. Khan, Plant diversity patterns and conservation status of Eastern Himalayan forests in Arunachal Pradesh, Northeast India, 2017, Springer Nature, ISSN (Print/Online) 2197-5620, UGC Indexed No. 43165

Publications (Book/Chapters)

- Diksha, **A. Kumar**, A. C. Pandey, and M. L. Khan, Urban Risk and Resilience to Climate Change and Natural Hazards: A Perspective from Million-Plus Cities from Indian Subcontinent, 2019, Wiley

- R. Kumari, S.K. Shukla, K. Parmar, N. Bordoloi, **A. Kumar** and P. Saikia*, Wetlands conservation and restoration for ecosystem services and halt biodiversity loss: An Indian Perspective, 2019, Springer India, ISBN No. 978-981-13-7664-1
- R. Kumari, A. Banerjee, R. Kumar, **A. Kumar**, P. Saikia* and M.L. Khan, Deforestation in India: Consequences and Sustainable Solutions, 2019, IntechOpen, UK, ISBN No. 978-1-78923-834-1
- **A. Kumar**, Urban Footprints on Environment: A Geoinformatics Approach, 2016, Scientific Publishers, India, ISBN No. 978-93-86102-72-0
- P. Saikia, **A. Kumar** and M.L. Khan, Biodiversity status and climate change scenario in Northeast India, 2016, Springer International Publishing, Switzerland, ISBN No. 978-319-31013-8

Awards/Fellowship

- International Travel Support Scheme from SERB, Gol, New Delhi in September 2017 to participate in GFBI-FECS joint symposium at Beijing Forestry University

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Dr. Bikash Ranjan Parida
Assistant Professor

Qualification

Ph.D. in Natural Sciences
Title - The influence of plant nitrogen availability on the global carbon cycle and N₂O emission
M.Sc. in Geoinformatics
Post Doc in Climate and Vegetation Interactions from University of California, Los Angeles (UCLA), CA, USA
Title - Climate-Vegetation Interactions

Experience - 9 Years

Specialization

Remote Sensing & GIS, Agriculture, Forestry, Climate change & Modelling

Research Areas

Vegetation Remote Sensing & GIS, Extreme Events in Agriculture & Forestry, Biomass Estimation, Land Carbon and Nutrients Cycling Modelling



Research Guidance

- Gaurav Tripathy, Flood characterization and Modelling in Kosi River, Basi, Bihar, 2016
- Somnath Bar, Impact of Forest fire on regional atmospheric Pollution and Forest Degradation in Parts of North Western Himalaya, 2018

Research Projects

- Flood prognosis and inundation mapping using Airborne SAR (L bands) images, Funding Agency - SAC, Ahmedabad, ISRO, Amount - 24.03 Lakhs
Duration - 2017-20
- Modeling terrestrial carbon dynamics using LUE-based model, Funding Agency - UGC-FRP Strup Grant, Amount - 6 Lakhs, Duration - 2018-20,
- Quantifying Climatic and Non-climatic Drivers of Large-scale Ecosystem Change during 1982-2015 over India, Funding Agency - SERB, DST, Young Scientist Scheme, Amount - 16.56 Lakhs, Duration - 2016-19

Publications (Journals)

Total - 20

- A.K. Ranjan and **B.R. Parida**, Paddy Acreage Mapping and Yield Prediction Using Sentinel-based Optical and SAR Data in Sahibganj district, Jharkhand (India), 2019, Springer, ISSN (Print/Online) 2366-3294, UGC Indexed No. 63298
- N. Singh and **B.R. Parida**, Environmental Factors Associated with Seasonal Variations of Night-time Plant Canopy and Soil Respiration Fluxes in Deciduous Conifer Forest, Western Himalaya, India, 2018, Springer, ISSN (Print/Online) 1432-2285, UGC Indexed No. 35040
- **B.R. Parida**, S.N. Behera, B. Oinam, N.R. Patel, and R.N. Sahoo, Investigating the effects of episodic Super-cyclone 1999 and Phailin 2013 on hydro-meteorological parameters and agriculture: An application of remote sensing, 2018, Elsevier, ISSN (Print/Online) 2352-9385, UGC Indexed No. 10236
- **B.R. Parida**, S.N. Behera, B. Oinam, A.C. Pandey and N. Singh, Evaluation of satellite-derived Rainfall Estimates for an Extreme Rainfall Event over Uttarakhand, Western Himalayas, 2017, MDPI, ISSN (Print/Online) 2306-5338, UGC Indexed No. SCOPUS
- W. Buermann, C. Beaulieu, **B.R. Parida**, D. Medvigy, G.J. Collatz, J. Sheffield and J.L. Sarmiento, Climate-driven shifts in continental net primary production implicated as a driver of a recent abrupt increase in the land carbon sink, 2016, Copernicus Gesellschaft MbH, ISSN (Print/Online) 1726-4170, UGC Indexed No. 14659

Publications (Book/Chapters)

- **B.R. Parida** and W. Buermann, Longer Growing Season Decreases Peak Summer Vegetation Productivity In North American Ecosystems, 2016, Springer International

Publishing, ISBN No. 978-3319186627

- **B.R. Parida** and W. Buermann, Peak Summer Vegetation Greenness Decreases Across Northern America", 2014, Excellent Publishing House, ISBN No. 978-9383083657

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Dr. Chandrashekhar Dwivedi

Assistant Professor

Qualification

Ph.D. in Geography

Title - Transformation of Rural Environment in Mahoba District, UP, : A Geographical Appraisal

M.Sc. in Geography

Experience - 3.6 Years

Specialization

Land Information System, Satellite Meteorology, Geomorphology

Research Areas

Rural Transformation, Hydrology, Natural Resource Management

Publications (Journals)

Total - 3

- A. Pandey, **C. S. Dwivedi**, Spatial Variation in Literacy : A Case Study of Sample Village, Ambedkarnagar District, 2016, ISSN (Print/Online) 2347-5153, UGC Indexed No. 47176
- A. Pandey, **C. S. Dwivedi**, Changing pattern of Population Density: A case Study of Sample Village, Ambedkarnagar District, 2016, ISSN (Print/Online) 2347-5153, UGC Indexed No. 45784
- A. Pandey, **C. S. Dwivedi**, Change in landuse Pattern in Sample Village, Ambedkarnagar District, 2016, ISSN (Print/Online) 0975-6795, UGC Indexed No. 46775

Publications (Book/Chapters)

- **C.S. Dwivedi**, J. Husain and S. Shukla, Change Detection Analysis Using Multi-Temporal Satellite Data: A Case study from Seoul & Gyeonggi-Do, South Korea, 2017, Mayank Publication Pvt. Ltd. New Delhi, ISBN No. ISBN 978-93-7831-443-8
- **C.S. Dwivedi**, Transformation of Rural Environment:



DEPARTMENT OF GEOINFORMATICS

A Geographical Appraisal, 2017, Lambert Academic Publishing, Germany, ISBN 978.3.330.00418-4

Awards/Fellowship

- Senior Research Fellowship (UGC), New Delhi
- Junior Research Fellowship (UGC), New Delhi
- Best Paper award by Researcher Association of South Korea (RASK), 2015-16

Contact :

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 Mobile : 7895833364



Dr. Kanhaiya Lal
Assistant Professor

Qualification

Ph.D. in Geography/ Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi
 Master in Geography

Experience - 10 Years

Specialization

Geomorphology, Agriculture, Urbanisation

Research Areas

Land Degradation, Crop Related Issue, Urban Transformation

Publications (Journals)

- **K. Lal**, D. Kumar and A. Kumar, Spatio-temporal landscape modeling of urban growth patterns in Dhanbad Urban Agglomeration, India using geoinformatics techniques, 2017, Elsevier, ISSN (Print/Online) 11109823, UGC Indexed No. 13421

Publications (Book/Chapters)

- **K. Lal**, Weather Disturbances, Part-I, 2012, Kurukshetra University Press, Kurukshetra
- **K. Lal**, Classification of World Climate, Part-II, 2012, Kurukshetra University Press, Kurukshetra
- **K. Lal**, Green Revolution, Its Impacts and Consequences, White Revolution in India, 2012, Kurukshetra University Press, Kurukshetra
- **K. Lal**, Race and Religion, 2012, Kurukshetra University Press, Kurukshetra
- **K. Lal**, Migration including Laws of Migration and Growth, 2012, Kurukshetra University Press, Kurukshetra

Awards/Fellowship

- Senior Research Fellowship (CSIR-UGC)
- Junior Research Fellowship (CSIR-UGC)

Contact :

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 Mobile : 7250517306



Dr. Kiran Jalem
Assistant Professor

Qualification

Ph.D. in Geo-Engineering
 Title - Study on protection of surface water bodies and development of groundwater source in visakhapatnam urban environment
 M.Tech. In Remote Sensing

Experience - 19 Years

Specialization

Disaster Management, Geoinformatics, Civil Engineering

Research Areas

Geoinformatics Applications for Disaster Management, Geo-Engineering, Community Based Disaster Management

Publication (Journal)

- **K. Jalem**, S. K. Singh, Water Harvesting through Inter-basin Transfer Technique for part of Visakhapatnam Urban Area using Geo-Spatial Technology, 2018, Society for Environment & Development, ISSN (Print/Online) "ISSN: 0975-7112 (Print) ISSN: 0975-7120 (Online)", UGC Indexed No. 62805
- **K. Jalem**, V. Rao V, K. Rambabu, Vertical Electrical Sounding for Groundwater Exploration for Part of Visakhapatnam Urban Area, Andhra Pradesh, India, 2017, ISSN: 9763031, UGC Indexed No. 46629
- D. Kumari, **K. Jalem**, Coal Mining Dynamics at Kuju, Bhurkunda and Khalari Coal field areas over Temporal years 1991 to 2016 using Geospatial Technology, 2018, ISSN: 23202882, UGC Indexed No. 49023
- **K. Jalem**, A. K. Singh, Village Information System (VIS) Development of Village Economy through Space Technology, 2010, ISSN: 0973-6700
- **K. Jalem**, Development of Water Resources for Micro Watershed at Chinamushidiwada Village in

Visakhapatnam, Andhra Pradesh, India, 2016, ISSN: 2165-784X

- **K. Jalem**, Opinion on a Case Report of Bero Block, Ranchi, Jharkhand, India, 2018, ISSN: 2575-8950

Publications (Book/Chapters)

- K. Bera, **K. Jalem**, "Internal Changes in South Asia: Challenges and Opportunities", 2017, "Indu Book Services, New Delhi", ISBN No. 978 93 85754 17 2
- M. Ramakrishnan, **K. Jalem**, "Seminar Essays - On Folklore", 2018, "Progress Publication, Calicut, Kerala, India", "ISBN 978 93 84638 69 6"

- **K. Jalem**, Wastewater Reuse and Watershed Management, 2019, CRC Press Taylor & Francis Group, Apple Academic Press, ISBN 978 1771887465

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SCHOOL OF MANAGEMENT SCIENCES

Department of Business Administration



DEPARTMENT OF BUSINESS ADMINISTRATION

The Department of Business Administration (formerly Centre for Business Administration) combines the intellectual rigor and practical experience in carrying out innovative teaching and path breaking research. The MBA Program of the department has various functional specializations with advanced courses. The research of the department is divided into two verticals – Ph D and funded research. The research focus of the department extended in to various business functions such as marketing, finance, Human Resources, Operations and Supply Chain Management in addition to study on Indian economy, fundamentals of various business and non business organizations, public policies and socio-economic challenges. The department carries out innovative path breaking research in the area of Social Media, Stock Market, commodity Market Business Analytics, Artificial Intelligence, and Entrepreneurship. The scope of the research includes organizations belonging to Higher Education, Financial Services, Healthcare, Manufacturing, Hospitality and Tourism and other service industries. The department thrust additionally is towards consultancy and industry institutional interface and entrepreneurial startup. Efforts are in progress in establishing business incubator under the aegis of the department. Consultancy and Industry MOUs are planned for the future.



Dr. Ashoke Kumar Sarkar

Associate Professor

Qualification

Ph.D. in Finance

Title - Profitability And Defaults of State Financial Corporation In The Globalised Era: A Case Study of Bihar State Financial Corporation From 1986-87 To 2002-2003
Master In MBM (Master Of Business Management)

Experience - 37 Years

Specialization

Finance, Operations Research, Derivates and Risk Management

Research Areas

Health Care Industries, Entrepreneurship, Financial Inclusion, Deratives and Risk Management

Research Guidance

- Sadhvi Singh, 2018, Role of financial inclusion for the development of rural area of Jharkhand with special reference to tribal societies.
- Saurabh Sonkar, 2018, Entrepreneurial Challenges for SC/ST in India Vis-à-vis Financial Structure
- Ms Debasmitta Dutta, 2015, Influence of Nonmedical and Financial Factors on Customer's Choice of Hospital

Publications (Journals)

Total - 12

- **A. K. Sarkar**, Industry Concentration Vis-à-vis Sustainable Growth-Case of Some Specific Indian Industries, 2017, Editors- Somarata Chakraborty, Ashoke

Kumar Sarkar, Ranajit Chakrabarty, International Journal of Management Studies, Vol-IV, Issue-1, International Journal of Management Studies, ISSN(Print) 2249-0302, ISSN(Online) 2231-2528, Journal No. UGC List: 44925

- **A. K. Sarkar**, Women Health Policies: A Critical Evaluation of Existing Policies and Future Required Strategies, 2017, Editors - Debasmitta Dutta, Pooja Shukla, Praveen Kumar & A.K.Sarkar , AIM-KINDLER, Volume XVII, Number 2, AIM-KINDLER, ISSN0973-486, Journal No. UGC List: 42831
- **A. K. Sarkar**, Impact of E Word of Mouth Publicity on Destination Selection-A Study of Gwalior, 2017 Editors - A. K. Sarkar & U. Gupta , AIM-KINDLER, Volume XVII, Number 2, AIM-KINDLER, ISSN0973-486, Journal No. UGC List: 42831
- **A. K. Sarkar**, Setting an Enterprise Vis-à-vis Procurement of Job in the Perspective of Indian Professional Students, 2017, Editors - A. K. Sarkar & P. Viswakarma, Kindler, Volume XVII, Number 2, AIM-KINDLER, ISSN0973-486, Journal No. UGC List: 42831
- **A. K. Sarkar**, Impact of Demonetization: A Study on Healthcare and Pharmaceutical Industry Page no. (583 to 594), 2017, Editors - A. K. Sarkar and D. Dutta , International Journal of Engineering & Management Research (IJEMR), Volume-7, Issue-3 International Journal of Engineering & Management Research (IJEMR), ISSN(Online): 2250-0758 andl SSN(Print): 2394-6962

Publications (Book/Chapters)

Total - 7

- **A. K. Sarkar** (First Author and Corresponding Author) and P. Pushpanjali, Human Resources Accounting Concepts and their Applicability and Implications for Employees, Organisations, Donors and Society: A Critical Analysis (page 52 to 75), 2015, Sustainable Development: South Asian Conundrum Published by IIDS Australia-IIMS India-BEN Germany, Editor - Prof. Moazem, Grafiti University,



Australia, Published by IIDS Australia-IIMS India-BEN Germany, ISBN 978 984 33 8819 3

- **A. K. Sarkar**, Solving of Two Person Zero Sum Game By Using LPP Phttps://www.youtube.com/watch?v=WG3gdSFp-6s, 2018, Solving of Two Person Zero Sum Game By Using LPP, Publisher - Youtube

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Dr. Mahendra Singh
Assistant Professor

Qualification

Ph.D. in Management
Title - Business Analytics and Information Technology in Supply Chain Operational Performances: A Study of Indian Plastics Industry
Master of Business Administration

Experience - 8 Years

Specialization

Marketing Management, Operations Management, Supply Chain Management

Research Areas

Supply Chain Management, Production and Operations Management, Marketing Management

Publications (Journals)

Total - 10

- **M. Singh**, R. K. Prabhakar, Business analytics: an application focus by Purba Halady Rao, a book review, 2018, Vilakshan – XIMB journal of management, Volume - 15, Issue - March, Publisher - XIMB-Bhubaneshwar, ISSN - 0973-1954, UGC Indexed No. 48470*
- **M. Singh**, Factor Rating Method: Vendor Evaluation System, 2015, SCMS Journal of Indian Management, Volume - 12, Issue - 1, Publisher - SCMS Cochin School of Business, ISSN - 9733167, UGC Indexed No. 62718
- **M. Singh**, BPR Project for Dramatic Improvements in Direct Tax Collection in India: A Case Study, 2015, ANVESHYA - The Journal of Management, Volume 0 8, Issue - 3, Publisher - IES Management College and Research Centre, ISSN - 9745467, UGC Indexed No. 62588*

- **M. Singh**, Hero Motocorp's Quest for Efficiency and Effectiveness in Supply Chain Management: A Case Study of Direct On-Line Supplies System, 2016, IUP Journal of Operations Management, Volume - 15, Issue - 2, Publisher - I U P Publications, ISSN - 0972-6888, UGC Indexed No. 44062*
- R. K. Prabhakar, **M. Singh**, C. Nagapavan, Ensuring energy security in rural India-a case study on Rajiv Gandhi Gramin LPG Vitrak (RGGLV) Yojana, 2015, SONA Global Management review, Volume - 9, Issue - 3, Publisher - Sona School of Management, ISSN - 0973-9947, UGC Indexed No. 42956*

Publications (Book/Chapters)

- C. Nagapavan, **M. Singh**, Faculty Development as a source of Competitive Advantage for the Management Institution, 2013, Faculty Development in Management Education: Issues, Perspectives, Components and Challenges, Editor - C. Nagapavan, Publisher - MTC Global, ISBN - 978-81-922178
- **M. Singh**, KVIC and Implementation of Prime Ministers Employment Generation programme (PMGEP) Entrepreneurship and Innovation, 2012, Editor - Pushpa Sankla, Shatrunjaya Dhupia, Naveen Kumar Sharma, Publisher - SGC, Ajmer, ISBN - 9788185245997
- **M. Singh**, S. Dixit, Application of Benchmarking process in TQM as tool of continuous improvement, India becoming world leader by 2020, 2013, Editors - D.K. Swami, B. Venkatesh, Shirish Verma, Publisher - Indra publishing, ISBN - 9789382518471

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Dr. Nitesh Bhatia
Assistant Professor

Qualification

Ph.D. in Management
Title - Human Resource Audit: A tool for Organizational Effectiveness
MBA (Human Resource Management and Marketing-Dual Specialization)

Experience - 12 years



DEPARTMENT OF BUSINESS ADMINISTRATION

Specialization

Human Resource Management, Organizational Behaviour, Organizational Development and Change

Research Areas

Human Resource Audit, Entrepreneurship and Family Business, Organizational Behaviour

Research Guidance

- Tanvi Dogra, 2018, Use of AI Technology in Universities for on-boarding of students and their path forward: Bridging academics and Industry (Tentative title)
- Santosh Kashyap, 2018, Integrating Unfolding and Job Embeddedness Model of Voluntary Turnover: A Study in Indian Service Sector” (Tentative Title)

Publications (Journals)

Total - 7

- **N. Bhatia**, S. M. Vipul, Next Gen Entrepreneur: Royal Enfield's Turnaround Saga, 2018, Growth- Journal of MTI, Volume - 46, Issue - 1, Publisher - MTI - SAIL, ISSN - 2249-6394, UGC Indexed No. 43198
- S. M. Vipul, **N. Bhatia**, Challenges and Issues in Digitization of Property/House Tax Collection: A Case of SSPL, Jharkhand, 2018, IUJ - journal of Management, Volume - 6. Issue - 1, UGC Indexed No. 41246
- **N. Bhatia**, T. Dutta, Purchase Decision: Your Nose Matters, 2015, Growth- Journal of MTI, Volume - 43, Issue - 3, Publisher - MTI - SAIL, ISSN - 2249-6394, UGC Indexed No. 43198

Publications (Book/Chapters)

- **N. Bhatia**, People Analytics – Compilation of Recent Trends, 2017, Editors - Piyali Ghosh, Tanusree Dutta, Publisher - Bloomsbury Publishing India Pvt . Ltd., ISBN - 9789387471221
- T. Dutta, **N. Bhatia**, U. Srivastava, S. Kumar, High - Tech People, high - Touch HR, Are We Missing the Humane Touch?, 2013, Editors - Debashis Chatterjee, Manoranjan Dhal, Surya Prakash Pati, Publisher - Bloomsbury Publishing India Pvt . Ltd., ISBN - 9789382951209
- P. Kaur, M. Deb, **N. Bhatia**, The Next Leap – Exploring New Paradigms in Business, 2014, T. Ghoshal and Others, Publisher - Excel India Publishers, ISBN - 9789383842100
- D. Kumar, **N. Bhatia**, B. Singh, Phytoremediation Potential of Bio-energy Plants, 2017, Editors - Kuldeep Baudh, Bhaskar Singh, John Korstad, Publisher - Springer Nature Singapore, ISBN - 9789811030833

Awards/Fellowship

- Best Paper Presented at National Seminar on Cyber Security: emerging Trends, organized by ICFAI University Jharkhand held at IUJ Campus, Ranchi on 29 November 2017.

Contact :

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Dr. Pragyan Pushpanjali

Assistant Professor

Qualification

Ph.D. in Management , PG Department of Commerce and Business Management, Ranchi University, Ranchi
Title - A Study of Human Resource Accounting and Its Socio-Economic Impact on Selected Charitable (Health) Organizations Working in Jharkhand
Post Graduate Diploma in Personnel Management

Experience - 12 years

Specialization

Human Resource Management

Research Areas

Human Resource Accounting, Organizational Behavior, Labour Laws & Soft Skills.

Publications (Journals)

- **P. Pushpanjali**, Contributed a chapter titled “ Intellectual Property rights- A brief overview in the Indian Context” in the Technical Handbook on Intellectual Property Rights in Agricultural Biotechnology, published by ICAR- Indian Institute of Agricultural Biotechnology (Deemed to be University) Namkum, Ranchi – 834010) Pages:1-8, 2016, Technical Handbook on Intellectual Property Rights Publisher - ICAR- indian Institute of Agricultural Biotechnology- Deemed to be University. ICAR- indian Institute of Agricultural Biotechnology- Deemed to be University

Publications (Book/Chapters)

Total - 3

- **P. Pushpanjali**. A single author chapter titled “Valuation, accounting and reporting of Human Resources for enhancing the performance of individuals, Groups and the Organisations – the next paradigm for Accounting and Human Resource Management” was published in an Edited book – “The New Leap”, The New Leap, 2014, Chief Editor - Prof taposh Ghoshal, Publisher - Excel India publishers, ISBN - 978-93-83842-10-0
- A. K. Sarkar and **P. Pushpanjali**, Co-authored a paper titled “Human Resource Accounting Concepts and



their Applicability and Implications for Employees, Organizations, Donors and Society: A Critical Analysis”, 2015, was published in an Edited book “Sustainable Development South Asian Conundrum” Editors - Mazharul M. Islam and Moazzem Hossain, Publisher - IIDS Australia-IIMS India- BEN Germany,

- **P. Pushpanjali**, A paper titled “India – South Korea, Management Lessons for the Next Millenium”, was published in their edited book in 2016. Pages: 66-86, Evolving Indo Korea Relations, 2016, Peer Reviewed, Editor - Sushila Narsimhan, Kim do- Young, Publisher - Manak publications pvt. ltd, ISBN - 978-93-7831-419-3

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Dr. Nagapavan Chintalapati
Assistant Professor

Qualification

Ph D in Management Studies / University of Hyderabad
Title - Social Media and Management Education: A Study of Business School Choice, Learning and Social Capital
Master of Business Administration

Experience - 15 years

Specialization

Marketing Management, Social Media, Strategic Management

Research Areas

Marketing Management, Social Media, Management Education

Research Guidance

- Mr. Gouri Shankhar Sharma, 2018, Not Finalized

Publications (Journals)

Total - 12

- **N. Chintalapati**, V. Srinivas, K. Daruri, Examining the use of YouTube as a learning resource in higher education: scale development and validation of TAM model Telematics and Informatics, 2017, Volume - 34, Issue - 6, Publisher - Elsevier, ISSN - 0736-5853, 24149
- **N. Chintalapati**, Protecting the Competitive Advantage Derived Through HR: Challenges for IT Industry, 2013, The IUP Journal of Management Research, Volume - 12,

Issue - 3, Publisher - IUP, ISSN - 9725342, UGC Indexed No. 46843

- **N. Chintalapati**, Re-engineering the Transport of Motorcycle through Indian Railways to address Service Quality Challenges, 2013, UDAAN: The International Journal of Management Research, Publisher - ICBM - School of Business Excellence, ISSN - 23479256, UGC Indexed No. 45216
- **N. Chintalapati**, S. K. Sinha, Municipal Solid Waste Management: A Challenge for Sustainable Development of Cities, 2014, IUJ Journal of Management, Publisher - ICFAI University, Jharkhand, ISSN - 23475080, UGC Indexed No. 41246
- **N. Chintalapati** and V. S. K. Daruri, Use of Social Media for Communication by Top Business Schools in India, 2017, IUJ Journal of Management, Publisher - ICFAI University, Jharkhand, ISSN - 2347-5080, UGC Indexed No. 41246

Publications (Book/Chapters)

Total - 10

- Editors: **N. Chintalapati**, Faculty Development in Management Education: Issues, Perspectives, Components and Challenges, 2013, Publisher - MTC Global, ISBN No. - 978-81-922178-2-6
- **N. Chintalapati**, Management of Business Schools: A Case Study on contribution of Strategic Leadership to Institution Quality, 2013, India and Indigenous Strategies, Publisher - Excel India Publishers, ISBN - 978-93-82880-36-3

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Dr. Sanhita Sucharita
Assistant Professor

Qualification

Ph.D. in Economics
Title - Role of Fiscal Responsibility and Budget Management in Restoring Fiscal Balance in India
M..A Economics Post Doc in Economics , Sir Ratan Tata Trust (SRTT)
Post Doctoral Fellow, at Assistant Professor level IEG New Delhi



DEPARTMENT OF BUSINESS ADMINISTRATION

Experience - 10 Years

Specialization

Public Finance, Development Economics, Environmental Economics

Research Areas

Fiscal policy Rule, Labour Migration, Sustainable Development of Agriculture

Research Guidance

- Lisma Rout, Role of Seasonal Migration for Economic Upliftment: A Study of Koraput District of Odisha, 2014
- Barun Kumar Barnwal, Role of Public Distribution System to achieve Food Security: A Study of Ranchi district in Jharkhand, 2015
- Khushboo, Impact of Goods and Service tax on Indian economy, 2016

Research Project

- Causes and Impact of Labour Migration: A Study of Jharkhand'

Publications (Journals)

Total - 10

- N. Sethi, P. Bhujabal, D. P. Dash, **S. Sucharita**, An Empirical Insight of Examining Impact of Recent Demonetization on Monetary System: Evidence from India, Iranian Economic Review, (Scopus Indexed), 22 (4), 2018, Faculty of Economics University of Tehran, ISSN (Print/Online) 2588-6096
- **S. Sucharita**, Revenue Expenditure Nexus in India, Journal Indian Taxations, 3 (1), 2016, Journal Press India, New Delhi, ISSN-2347-4475
- N. Sethi, **S. Sucharita**, & H.K. Pradhan, Environmental Implications of Contract Farming, Journal of Economic

Policy Research, Vol. 11 (2), 2016, Institute of Public Enterprise, Hyderabad, ISSN-0975-8577

- N. Sethi, **S. Sucharita**, FDI and Economic Growth: An Empirical Investigation of India and Bangladesh, Journal of Finance & Accounting, Vol. 2 (1), 2015, Journal Press India, New Delhi, ISSN:2347-4467
- S. Sucharita, Factors Affecting Female Labor Force participation in India, Romanian Economics Journal Vol. 16m 2013, The institute of National Economy, Romanian Academy, ISSN 2344-4657

Publications (Book-5, Chapters-6)

- N. Sethi, and **S. Sucharita**, FDI and Economic Growth in India, 2013, Rawat Publication Pvt. Ltd., Jaipur/New Delhi, India, ISBN No. 978-81-316-0590-5)
- **S. Sucharita** and N. Sethi, Fiscal Policy Rules in India, 2016, Heritage Publishers, Pvt. Ltd, New Delhi, India, ISBN 978-81-7026-363-0)
- N. Sethi, **S. Sucharita**, and P. Bhujabal, Agrarian Crisis in Indian Farmers", 2018, Best Publishing House Pvt. Ltd, New Delhi, ISBN 978-81-9311-560-2
- **S. Sucharita**, Fiscal adjustment in india, 2015, McGraw Hill Education, ISBN 93-392-2429-9.
- Research Issues in Applied Economics edited, "Effect of FDI on Economic Growth in Bangladesh and India: An Empirical Investigation", 2015, McGraw Hill Education, ISBN 93-392-2429-9

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SCHOOL OF MASS COMMUNICATION & MEDIA TECHNOLOGIES

Department of Mass Communication



DEPARTMENT OF MASS COMMUNICATION

The Department of Mass Communication is one among the four departments established during inception of the university in 2009. It comes under the School of Mass Communication and Media Technologies. At present, it offers two year Master Degree Program in Mass Communication and Ph.D. in Mass Communication. The department is equipped with basic facilities of media training. i.e. media labs, video camera and digital still cameras etc. The department is in the process of establishing state-of-the-art infrastructure radio-television studio and community radio station. The university has fully Wi-Fi enabled campus with access to the best online journals. Department has a separate dedicated computer laboratory for 30 students with all the necessary software for print and electronic production. The Department is committed to deliver excellence in media education, research and training with special focus on indigenous and regional needs. Department aims at producing media professional with social commitment.



Dr. Dev Vrat Singh
Associate Professor

Qualification

Ph.D. in Mass Communication, Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal

Title - Comparative Study of Indian News Channels (With special reference to Star News, Zee News and Aaj Tak)

Master in Mass Communication, PG Diploma Radio & TV Journalism (IIMC)

Experience - 20 Years

Specialization

New Media, Electronic Media, Broadcast News

Research Areas

New Media, Visual Media, Mobile Communication

Research Guidance

- Nazish Hena Khan, 2013, A Study of Comparative Advertising in Print Magazines: A Cross-Cultural Analysis of India and the United States
- Rupa Kumari, 2013, Empowerment through Social Media Engagement – A Study of Women's Perspective
- Neha Pandey, 2014, Use of New Media for Communicating Political Messages by Two Indian National Parties
- Rajesh Kumar, 2016, Mapping Media Education in Universities of Eastern India
- Vishakha Rajurkar Raj, 2017, Communication Perspectives in Contemporary Indian Theatre: A Study with special reference to the Conceptual Framework of Bharatmuni's Nāṭyaśāstra
- Kunal Anand, 2017, Course Work Ongoing

- Rashmi Verma, 2018, Course Work Ongoing

Research Project

- Major Research Project (MRP) Title - A Study about the Empowerment through Mobile Phones among Oraons of Jharkhand, Funding Agency - Indian Council for Social Science Research (ICSSR), Funding Amount - 6.5 Lakhs, Duration - 2018-19

Publications (Journals)

Total-15

- N. Pandey and **D. Singh**, Functionality and Effectiveness Analysis of BJP and INC Websites, Journal of Advanced Research in Journalism and Mass Communication, Volume 6, Issue 1, 2019, Publisher - ADR Publications, Delhi, ISSN - 2395-3810, UGC Indexed No. 62888*
- **D. Singh**, R. Kumari, Using YouTube for Political Communication in India, Journal of Advanced Research in Journalism and Mass Communication, Volume - 3, Issue - 3, 2016, Publisher - ADR Publications, Delhi, ISSN - 2395-3810, UGC Indexed No. 62888*
- **D. Singh**, Socializing Online: Case Study of 'Media Educators' a Facebook group of media professors in India, Journal of Advanced Research in Journalism and Mass Communication, Volume - 2, Issue - 2015, Publisher - ADR Publications, Delhi, ISSN - 2395-3810, UGC Indexed No. 62888*
- **D. Singh**, Colour Bias in Visual Media – An Unfair Obsession for Lighter Skin in India, Mass Media, Volume - 4, Issue - No. 39, 2015, Publisher - Media Studies Group, Delhi, ISSN - 2277-7369, UGC Indexed No. 45130*
- **D. Singh**, Media Research in India: A Critical Overview', Mass Media, Volume - 3, Issue - 36, 2015, Media Studies Group, Delhi, ISSN - 2277-7369, UGC Indexed No. 45130*

Publication (Books-5/Chapters-10)

- **D. Singh**, Television Production, 2014, Publisher - Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal, ISBN - 978-81-921355-5-7
- **D. Singh**, The Indian Media, Understanding World Media, 2018, Editors - Kumar Kaustubha, Ajitabh and Mudita Agnihotri Sant, K. K. Publications, New Delhi, ISBN - 978-81-7844-326-3



- **D. Singh**, Nirantar Vistaar Path Par Bhartiya Media, Vishwa Media Vimarsh, 2017, Editor - Kumar Kaustubh, Publisher - Kalpna Prakashan, Delhi, ISBN - 978-93-83725-96-0
- **D. Singh**, N. Pandey, Public Service Broadcasting for Sustainable Development: A Case Study of Doordarshan Kendra Ranchi, Media and Communication in Sustainable Development, 2016, Editors - Dr. Vikas Kumar and Dr. Pawan Gupta, Society for Education and Research Development (SERD), Haryana, ISBN - 978-1-943438-84-6

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Dr. Sudarshan Yadav
Assistant Professor

Qualification

Ph.D. in Journalism and Mass Communication, Banaras Hindu University (BHU)
Title - Creation and Management of Traditional Kunds as Community Water Sources: Present Status, Revival Strategy and Role of Communication
M.A. in Mass Communication, (BHU)

Experience - 09 Years

Specialization

Science Communication / Risk Communication/ Development Communication, Film Studies, Media Management

Research Areas -

Science Communication / Risk Communication / Development Communication, Film Studies, New Media

Research Guidance

- Poonam, 2016, Study on the status of science education and communication-teaching-learning practices adopted in the higher secondary schools of Jharkhand
- Nity, 2018, Course Work going on. Broader area: Health Communication

Publications (Journals)

- S. Yadav, Reality Versus Virtuality: Internet, A space beyond Reality yet Real- An Insight to Facebook, 2012, The BHU Journal of Communication Studies, Volume - 1,

Issue - 2, Publisher - Department of Mass Communication, Banaras Hindu University, ISSN - 2231-5578

- **S. Yadav**, Water Management in India: Current Status and Role of Communication, 2016, The Equanimist, Volume - 2, Issue - 2, Publisher - O. I. H. D., Allahabad, ISSN - 2395-7468, UGC Indexed No. 906*
- P. Mishra, S. C. Bose, **S. Yadav**, Status of Child Mortality in the Vidyapeeth Block of Varanasi District of Uttar Pradesh, 2012, The BHU Journal of Communication Studies, Volume - 2, Issue - 1, Publisher - Department of Mass Communication, Banaras Hindu University, ISSN - 2231-5578
- **S. Yadav**, Perspectives on Water Conservation, Community Participation and Role of Communication, IJCR-Interdisciplinary, Journal of Contemporary Research, Volume - 3, Issue - 2, 2016, Department of French, S.K.C. School of English and Foreign Languages, Publisher - Assam University, Silchar, ISSN - 2393-8358

Publications (Book Chapters/e-Content)

- **S. Yadav**, Sexuality Minorities in Indian Society and their portrayal in Bollywood Cinema, Experiments in Film Appreciation, 2014, Editors - Sisir Basu, Alessandro Monti, Carole Rozzonelli, Publisher - Levant Publication (in India), Lulu Press (Europe), ISBN - 978-93-84106-34-8
- **S. Yadav**, Pro-Women Media Activism, Women, Media and Films, 2016, Sisir Basu (Content Reviewer/ Paper Coordinator)/ Sumita Parmar (Principal Investigator), MHRD, also available as e-content on - ePG Pathshala <https://epgp.inflibnet.ac.in/view.php?category=860>
- **S. Yadav**, Actresses and Stardom, Women, Media and Films, 2016, Sisir Basu (Content Reviewer/ Paper Coordinator)/ Sumita Parmar (Principal Investigator), MHRD, also available as e content on - ePG Pathshala <https://epgp.inflibnet.ac.in/view.php?category=860>
- **S. Yadav**, History of Media Education and Training Centres, History of Mass Communication, 2017, Sisir Basu (Content Reviewer/ Paper Coordinator) / Dr. G. Ravindran (Principal Investigator), MHRD, also available as e content on - ePG Pathshala <https://epgp.inflibnet.ac.in/view.php?category=995>

Awards/Fellowship

- Library Fellowship, Centre for Contemporary Studies, Indian Institute of Sciences, Bengaluru, 2013
- Junior Research Fellowship, UGC, 2010

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Mobile : 7739787847



DEPARTMENT OF MASS COMMUNICATION



Rajesh Kumar
Assistant Professor

Qualification

Ph.D. (Pursuing), Central University of Jharkhand
Title - Mapping Media Education in Universities of Eastern India
M.Phil., Master in Mass Communication (GJUS&T, Hisar), PGDJ (IIMC)

Experience - 11 Years

Specialization

Communication Theories & Models, Print Media Communication: Reporting, Editing and Designing, International Communication

Research Areas

Media Education, Print Media Communication, Communication Theories

Publications (Journals)

Total-07

- **R. Kumar**, Mapping The Landscape of Journalism Education in Indian Languages, Communicator-The Journal of Indian Institute of Mass Communication, Vol. 53, Issue-4, 2018, Publisher: Indian Institute of Mass Communication, New Delhi, ISSN: 0588-8093, UGC Indexed No. 41937
- **R. Kumar**, Media Education in North Indian Central Universities: A Study of Teacher-Student Ratio and Research Journal Publication, Communicator-The Journal of Indian Institute of Mass Communication, Vol. 53, Issue-3, 2018, Publisher: Indian Institute of Mass Communication, New Delhi, ISSN: 0588-8093, UGC Indexed No. 41937
- **R. Kumar**, Media Education in North East Indian Central Universities: A Study of Media Programs and its Nomenclature, Journal of Content, Community and Communication, Amity School of Communication, Amity University, Gwalior, Vol. 06, Issue-03, 2018, Scopus Indexed, Publisher: Amity School of Communication, Gwalior, ISSN: 2395-7514, UGC Indexed No. 48485
- **R. Kumar**, Media Education Policy in India: A Historical Perspective, Mass Media: Journal of Media Studies Group, New Delhi, Vol. 4, Issue-38, Publisher: Media Studies Group, ISSN: 2277-7369, UGC Indexed No. 45130

- **R. Kumar**, Media ShikshaNiti: EkEtihasiSandarbhb, Jan Media: Journal of Media Studies Group, New Delhi, Vol. 4, Issue-40, Publisher: Media Studies Group, ISSN: 2277-2847, UGC Indexed No. 41547

Publications (Book Chapters)

- **R. Kumar**, *Peet Patrakarita, Visheshikrit Patrakarita*, Editors: D. Pathak & M. Lal, Publisher: University Publication, New Delhi, 2014, ISBN: 978-81-7555-656-0
- **R. Kumar**, *Media Aur Loktantra, Media Ki Nayee Chunautiyaan*, Editors: A. Saxena, Publisher: Kanishka Publication, New Delhi, 2014, ISBN: 978-81-8457-649-8

Course Content

- **R. Kumar**, Course Content: Newsroom Setup and Functions: Print & Online Media, 2014, Master, Indira Gandhi National Open University (IGNOU), New Delhi, ISBN - In-Press

Newspaper Publication & Production

- Articles/Features: More than 25
- Newspaper Page Make Up: More than 100

Awards/Fellowship

- Best Research Paper Presentation Award 2016: Research paper titled 'Media Education in North India: A Study of Central Universities in All Media Educators Conference 2016 (AIMEC 2016), organized by University of Rajasthan & Amity University, Jaipur.

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Rashmi Verma
Assistant Professor

Qualification

Ph.D. (Pursuing), Central University of Jharkhand
M. Phil., Master in Journalism, Makhnallal Chaturvedi National University of Journalism and Communication

Experience - 09 Years

Specialization

Print Journalism, Corporate Communication, Development Communication

Research Areas

Corporate Communication
Development Communication

Publications (Journals)

- **R. Verma**, New Media as a new platform for human expression, 2012, Issue on Journalistic Ethics and Freedom in the Contemporary Age of Digital Media, Volume - Single, Publisher - University of Calcutta, ISBN 81-86263-02-4
- **R. Verma & N. Pandey** Oraon of Ranchi city under the era of globalization- a socio-cultural perspective, 2012, Ratna-Garbha, Volume - VIII, Publisher - Social Sciences & Humanities Development Association, ISSN - 0996-231X
- **R. Verma**, Vigyan ka prasar aur media ki Sehbhagita, Vigyaan Prashar, 2013, DESIDOC, Defence Research Development Organization (DRDO), ISBN 978-81-86514-45-0

Publications (Book Chapters)

- **R. Verma**, Jan Sanchar, 2014, Visheshkrit Patrakarita, Editors - Dharendra Pathak Manohar Lal, University Publication, Delhi, 978-81-7555-656-0
- **R. Verma**, Ek Ropa Dhan Vritchitra ka Adhyan aur Gramin Parivesh mein Prasangikta', 2014, Media Ki Nayi Chunautiyaan, Editor - Ambrish Saxena, Publisher - Kanishka Publication, Delhi, ISBN 978-81-8457-649-8
- **R. Verma**, Public Relations: An Essential Function of Effective Management, 2015, Human Resource, Institute for Social Development and Research (ISDR), Ranchi, ISBN 978-93-84686-04-8

Newspaper Publications

- Articles/Features: More than 100

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SCHOOL OF LANGUAGES

Department of English Studies

**Department of Far East Languages :
Chinese, Korean, Tibetan**

Department of Hindi



DEPARTMENT OF ENGLISH STUDIES

The Department of English Studies (formerly Centre for English Languages) came into being with the inception of Central University of Jharkhand in 2009 and its first academic program was launched in 2009/2010. The department has emerged as a major Centre for teaching and learning English literature and Language since beginning. It offers M. A., Five-Year Integrated M. A. and Ph.D. programs in English studies. Moreover, the department offers courses in Communicative English to the students of various departments of the University. The Department of English Studies envisions creating a world class teaching & learning environment that may help students to expand their knowledge horizons in various aspects of English studies and deepen their understanding of the ways literature shapes people's perception of life and crystalizes different world views. It is also committed to excellence in imparting quality research skills and capabilities, deeper analytical sensibilities to both post-graduate students & PhD research scholars such that they can duly conduct unique and effective research in diverse areas of literature and other related fields. The department strongly believes that uniqueness of research lies in providing an appropriate academic environment. Therefore, it aspires to immerse its under graduate students, post graduate students and research scholars in various academic activities held in the department or beyond from time to time.



Dr. Shreya Bhattacharji
Associate Professor

Qualification

Ph.D. in English
Title - Race and Gender in Chinua Achebe
M.A. in English

Experience - 17 Years

Specialization

African literature, Postcolonial theory, Gender studies

Research Areas -

Partition literature, Queer and Gender studies, African and Afro-American literature

Research Guidance

- Kiran Kumar Nittali, Awarded, 28 August 2018, Violence, Trauma and Memory: Relocating Women in Select Partition Narratives, 2012
- Neha Kumari, Awarded, 7 September 2018, Bed for a Hundred Flowers: Interrogating the Norms of Sexual and Gender Identities, 2014
- Gargy Ganguly, Submitted, Critiquing Enslavement: Race, Gender and Resistance in Select Women's Slave Autobiography and Fiction, 2014
- Ajit Kumar Jha, Ongoing, Relocating Women in the Cultural Matrices of Mithila, 2015

Publications (Journals)

Total - 14

- **S. Bhattacharji** and G. Ganguly, Locating Gaps in Women Slave Narratives: Memoir of Mrs. Chloe Spear and Memoir of Old Elizabeth, 2018, Middle Flight, ISSN 2319 7684, UGC Indexed No. 64741
- **S. Bhattacharji**, We can be, and frequently are, our

own enemies": Relocating Biafra in Chimamanda Ngozi Adichie's Half of a Yellow Sun, 2018, Vidyasagar University English Teachers' Consortium, ISSN 0976-9064

- **S. Bhattacharji**, Write/Right the Partition in 2016: Shobha Rao's An Unrestored Woman and Other Stories, 2017, Middle Flight, ISSN 2319 7684, UGC Indexed No. 64741
- **S. Bhattacharji** and N. Kumari, Bridging the Gap: A. Revathi's The Truth About Me, 2016, Banaras Hindu University, ISSN 2229-3639
- **S. Bhattacharji**, The Hegemonic Game of 'Exclusion' / 'Inclusion' 'Chaos'/'Cosmos' Exploring the Dynamics of the 'Evil Forest' in Chinua Achebe's World, 2013, Middle Flight, ISSN 2319 7684, UGC Indexed No. 64741

Publications (Book/Chapters)

Total - 13

- **S. Bhattacharji**, Little Histories" of the "Peripheral People" : Re-reading Mamang Dai's The Legends of Pensam, 2019, Aadi Publications, Jaipur, India, ISBN No. 978-93-87799-14-1
- **S. Bhattacharji**, Foregrounding the Margin: Traditional Value Systems of Lepchas of India and Igbos of Nigeria, 2015, Routledge, Taylor & Francis Group, ISBN No. 978-1-138-79599-0
- **S. Bhattacharji**, Cartographic Sport / Throttled Stories: Re-reading 1947 India/Pakistan, 2015, Cambridge Scholars Publishing, UK, ISBN No. (10): 1-4438-7846-4, ISBN (13): 978-1-4438-7846-3
- **S. Bhattacharji**, Lesser Known Worlds of Sycorax: Lepchas of India and Igbos of Nigeria, 2013, Chung-Ang University Press, Seoul, South Korea, ISBN No. 978-89-7207-288-1
- **S. Bhattacharji**, Decoding the Moves of Colonial Chess: Premchand/Satyajit Ray's Shatranj Ke Khiladi, 2012, Oxford University Press, New Delhi, India, ISBN No. 13:978-0-19-807593-6, ISBN-10:0-19-807593-6.

Contact:

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Mobile : 8292694422



Dr. Mayank Ranjan
Assistant Professor

Qualification

Ph.D. in English
Title - Jim Corbett: A Critical Study of His Hunt Stories in India
M.A. In English

Experience - 9 Years

Specialization

American Literature, Linguistics, Hunt Literature

Research Areas

Eco-Criticism, Translation Studies, Media Language

Research Guidance

- Ibrahim Al-Hawri, Diglossia in the Arab Media: A Comparative Study of Arabic Use in Five Arab Satellite Channels, 2013
- Suraj Kr. Shaw, Poets of the South Asian Diaspora: A Study in Travel and Trans-nationality, 2014
- Devina Kumari, From Canon to Peripheral: Analysing Multiple Representation of History in Select Indian English Writers, 2016

Publications (Book/Chapters)

Total - 3

- **M. Ranjan**, A Critical Handbook of English Drama, 2013, Globus Press, New Delhi, ISBN No. 978-93-82074-84-7
- **M. Ranjan**, An Introduction to English Literature, 2013, Globus Press, New Delhi, ISBN No. 978-93-82484-62-5
- **M. Ranjan**, Theory and Practice of Socio Linguistics, 2015, Globus Press, New Delhi, ISBN No. 978-93-82484-15-8

Publications (Journals)

Total -13

Contact:

E-mail : dr.mayankranjan@gmail.com
Mobile : 8002008284



Dr. Ranjit Kumar
Assistant Professor

Qualification

Ph.D. in English Literature
Title - Significance of History, Culture and Migrancy in Amitav Ghosh's Fiction
Master in English Literature

Experience - 10 Years

Specialization

Indian Writing in English, Literary Theory, American Literature

Research Areas

Indian Writing in English, Post Modern Indian Fiction, Post Colonial Writing in English

Research Guidance

- Md. Humayun, Displaced and Misplaced Identity: A Study of Contemporary Bangla Dalit Writings in English Translation, 2014
- Simon Kisku, "Ecopolitical Imaginings and Contemporary Indian English Fiction, 2015
- Annu Priya, ongoing, 2017
- Manu Bharti, Between Two Worlds: Diasporic and Feminist Consciousness in Select Indian Works, 2017

Publications (Journals)

Total - 10

- **R. Kumar**, Study of Gender Discrimination in Dattani's Tara', Pub. in , ISSN No., UGC Serial No. 480, 2017, Society for Indo-Tibetan Buddhist Studies, New Delhi, ISSN (Print/Online) 22311483, UGC Indexed No. 40878
- **R. Kumar**, Gender Issues in Viay Tendulkar's Select Plays, 2017, Society for Indo-Tibetan Buddhist Studies, New Delhi, ISSN (Print/Online) 2277-2723, UGC Indexed No. 40878
- **R. Kumar**, Rewriting History in Amitav Ghosh's The Shadow Lines, 2018, Society for Indo-Tibetan Buddhist Studies, New Delhi, ISSN (Print/Online) 2273-2723, UGC Indexed No. 40792
- **R. Kumar**, Study of Subalternity n Amitav Ghosh's The Circle of Reason, 2018, Suruchi Kala Samiti, Varanasi, ISSN (Print/Online) 0974 7222, UGC Indexed No. 40790
- **R. Kumar**, Interrogating History in Amitav Ghosh's The GlassPalace, 2018, Society for Indo-Tibetan Buddhist Studies, New Delhi, ISSN (Print/Online) 2231 1483, UGC Indexed No. 40878

Publications (Books-2, Chapters-2)

- **R. Kumar**, Encyclopaedic Biographies of World's Great Essayists, 2011, Anmol Publications, ISBN No. 978-93-80836-38-6
- **R. Kumar**, Encyclopaedic Biographies of World's Great Fiction Authors, 2011, Anmol Publications, ISBN No. 978-93-80836-39-3
- **R. Kumar**, Symbolic Significance of Myth in Karnad's 'The Fire and The Rain' , 2013, AMS Publications, ISBN No. 978-81-925776-2-3
- **R. Kumar**, Consequence of Crossing the Threshold in Manju Kapoor's Difficult Daughters, 2009, Sarup Publications PVT. Ltd. , ISBN No. -978-81-7625-900-2

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DEPARTMENT OF FAR EAST LANGUAGES

The Department of Far East Languages (formerly Centre for Far East Languages): Chinese, Korean and Tibetan was established in 2012 with a vision to disseminate the knowledge about China, Korea and Tibetan to the Indian students. In a very short span of time, the Department of Far East Languages: Chinese has introduced Five Year Integrated (Bachelors + Masters). In coming years the department is going to offer three months Short-Term Course for the ITBP officials and Jawans. Department of Far East languages is the second department in India and whole South Asia region to offer Five Year Integrated M.A. program in Korean language and Culture. Six Month Certificate and One year Diploma in Korean language and culture was started in 2012-2013 and 2013-2014 respectively.



Dr. Konchok Tashi

Assistant Professor

Qualification

Ph.D. in Linguistics
(Topic: Polysemy in Ladakhi)
M.A. in Linguistics
M.A. in English Language & Literature

Experience - 9 Years

Specialization

Tibetan Language, Literature & Culture, Tibetan/Ladakhi
Linguistics, Tibetan Studies

Research Areas

Tibetan Semantics, Tibetan Language, Tibetan/Ladakhi
Linguistics

Research Guidance

- Ph.D. Awarded: Mr. Eshey Namgial, 2013 batch, topic: Salient Features of Ladakhi Language: A Critical Study, awarded Ph.D. on 24th April 2019
- Pursuing Ph.D.: Ms. Heena Thakur, 2014 batch, topic: Dakini: Divine Feminine in the Oral Tradition of Lahaul
- Mr. Ugen Lopsang Sherpa, 2016 batch, topic: The Language and Culture of Sherpa: An Ethnic Group of people in the State of Sikkim

Publications (Journals)

Total - 10

- **K. Tashi**, (2012). The Polysemy of the perception verbs Ita 'look' and tshor 'hear' in Ladakhi: a cognitive analysis'. In Anusilana: Research Journal of Indian Culture, Social and Philosophical stream (Refereed journal with ISSN: 0973-8762), Vol. XLIV, pp. 27-34. Banaras Hindu University. UGC approved journal vide journal No. 49319 (under Arts & Humanities).
- **K. Tashi**, (2013). Perception verbs in Ladakhi: a cognitive

approach. In Interdisciplinary Journal of Linguistics (IJL) (Refereed journal with ISSN: 09743421), IJL Vol. (6), pp. 183-200. Dept. of Linguistics, University of Kashmir, Srinagar. UGC approved journal vide journal No. 46974 (under Arts & Humanities).

- **K. Tashi**, (2014). Body part terms in Tibetan language: A cognitive perspective. In Anusilana: Research Journal of Indian Culture, Social and Philosophical stream (Refereed journal with ISSN 0973-8762), Vol. LVI, pp. 37-49. Banaras Hindu University. UGC approved journal vide journal No. 49319 (under Arts & Humanities).
- **K. Tashi**, (2014). Ladakh: A linguistic perspective. In Sheeraza (a special issue on Ladakh), Vol. X, No. 1, January-March 2014, pp. 193-214. Jammu & Kashmir Academy of Art, Culture and Languages, Srinagar. UGC approved journal vide journal No. 41058 (under Arts & Humanities).
- **K. Tashi**, (2014). Polysemy and homonymy in language and linguistics. In Interdisciplinary Journal of Linguistics (IJL) (A Peer-Reviewed Refereed journal with ISSN: 09743421), IJL Vol. (7), pp. 156-169. Dept. of Linguistics, University of Kashmir, Srinagar. UGC approved journal vide journal No. 46974 (under Arts & Humanities).

Publication (Books/Chapters)

- **K. Tashi**, (2014). Ladakhi Language. In Koul, Omkar N. (ed.) PLSI volume on Languages of Jammu & Kashmir, pp. 233-243, (ISBN: 978-81-250-5516-7), Orient Blackswan, New Delhi.
- **K. Tashi**, (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), pp. 99-106, (ISBN: 9789385012006), Sahityayan Publisher, Kanpur.
- **K. Tashi**, (2016). Bhoti: the classical language of the Himalayas. In Tsetan Namgyal (Ed.), A Coper Approach: The Trans Himalayan Tibet: History, Language & Literature (Traditional & Contemporary, pp. 109-117, (ISBN: 978-93-84370-17-6), Mankin Press, New Delhi.
- E. Namgial, & **K. Tashi**, (2017). Advent of Buddhism in Korea. In Narsimhan, Sushila & D-young, Kim (eds.) India-Korean Relations: Forging a Multidimensional Partnership in the 21st Century, pp. 189-203, (ISBN: 978-



93-7831-443-8), Manak Publications Pvt. Ltd., New Delhi

- **K. Tashi**, (2018). His Holiness the Dalai Lama's Visit to Tawang: An overview of India-China Relations. In Bibhuti Bhusan Biswas (Ed.), Internal Changes in South Asia: Challenges and Opportunities, (ISBN: 978-93-86754-17-2), Indu Book Publications, New Delhi.

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Dr. Kalsang Wangmo

Assistant Professor

Qualification

Ph.D. in Bhuddhist Studies

Title - Critical Study of the biographies of the Tsangkhapa Masters in Buddhist Studies : Specialization in Tibetan Language, Literature & Buddhism

Experience - 6 years

Specialization

Tibetan language, Literature & Buddhism) & other compulsory papers include Pali, Sanskrit, Buddhist Philosophy & History)

Research Areas -

(Tibetan language, Literature & Buddhism) including related research area such as; Pali, Sanskrit, Buddhist Philosophy & History)

Research Guidance

- Phuntsog Dolma, Title: Changes in the Socio-Cultural Identity of Ladakh: An Ethno-Historical Study on Post-Colonial Ladakh, Awarded (2019)
- Babuli Chandra Nayak, 2015, Topic : Odisha Buddhist Heritage in Tourism Development: A Case Study of Padmasambhava Mahavihara Tibetan Monastery at Jirang, Gajpati District

Publications (Journals)

Total - 03

- **K. Wangmo**, Middle Path and Universal Responsibility: A Buddhist Perspective in Tibet Journal, LTWA, Dharamsala. Vol. XXXVI No. 4. Winter. 2011, ISSN 0970-5368, 3-15.
- **K. Wangmo**, 14th Century Emergence of Gelug Tradition and its Significance in Revival of Buddhism in Tibetan

Tradition – Quaterly Magazine, DIALOGUE, Volume 14 No. 2, October-December. A journal of Astha Bharathi, New Delhi. 2012, ISSN 0973-0095, 88-96.

- **K. Wangmo**, Buddhism and Globalisation in half yearly magazine, Bodhi-Path, Buddha Education Foundation, Delhi. Vol.-1, January-July, 36, 2011

Publication (Books 2/Chapters 2)

- **K. Wangmo**, Globalisation & Buddhist Non-Religion, 2016, Buddhist World Press, Delhi-52, ISBN No. 9789380852546
- **K. Wangmo**, Position of Women in Thailand-Revisit Early Buddhism, 2016, Buddhist World Press, Delhi-52, ISBN 9789380852560
- **K. Wangmo**, Buddhist Perspective on Mindful Leadership for Sustainable Peace, 2019 Hong Duc Publishing House, Hanoi, Vietnam, ISBN : 978-604-89-79263
- **K. Wangmo**, Understanding Buddhism : An Art of Living and Philosophy of Life. 2018, Central Institute of Higher Tibetan Studies, Sarnath, Varanasi

Awards/Fellowship

- Research fellowship for 13th Annual Mind & Life Summer Research Institute workshop from 11th June, 2016 to 17th June, 2016 at Garrison Institute, Garrison, New York, USA on "People, Place and Practice; Putting Contemplative Studies into Context" sponsored by Mind & Life Institute, VA-22903, USA.
- Presented paper titled 'Demystifying the notion of Reincarnation through the life and legacy of the 14th Dalai lama' at 8th International Conference on Buddhism & Australia at UWA Trinity Colloge Conference Centre, Perth, Australia, 7-9 February 2019
- Presented paper titled 'The Concept of Reincarnation in Tibetan Heritage' The 10th Young Scholar Symposium for the Study of Buddhism & International Conference on the Study of Buddhism at Centre for the Study of Chan Buddhism and Human Civilization, The Chinese University of Hong Kong, Hongkong, 24 – 27 July, 2015

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DEPARTMENT OF FAR EAST LANGUAGES



Sandeep Biswas
Assistant Professor



Sushant Kumar
Assistant Professor

Qualification

Ph.D. (pursuing) in Chinese, M.A in Chinese

Experience - 6 Years

Specialization

Chinese Language, Chinese Culture, Chinese Literature

Research Areas

Gender in Chinese, Chinese Pedagogy, Chinese Script & Gender

Publications (Journals)

- **S. Biswas**, An Exploration & Analysis of the Issues Regarding the Teaching of Chinese in Indian Universities. China & the World Cultural Exchange, 2016, [ISSN: 1004-5015], Vol.211 No. 5, 133-136
- **S. Biswas**, in International Students at ECNU (East China Normal University, Shanghai; 2011). P.39.
- S. Biswas, (Building the Friendship Bridge between India and China) published in China Through the Eye of Indian Youths, 2017.

Awards/Fellowship

- Selected for the 'Visiting Program for Young Sinologist 2015' to Beijing, which was jointly hosted by Ministry of Culture of the People's Republic of China (MOC) and the Chinese Academy of Social Sciences (CASS) from July 5th to 24th, 2015.
- Delivered a speech in the opening ceremony of 'Shanghai Summer School 2016- A Shanghai Municipal Government Scholarship Program' organized by Shanghai International Studies University, Shanghai, China (SISU) from 11th July to 08th August, 2016]

Contact :

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Qualification

Master of Philosophy (M. Phil) in CHINESE STUDIES (Topic: State Policies on promotion of domestic tourism in China, 1992-2014)

Master of Arts (M.A.) in CHINESE LANGUAGE)

Certified Regional Level (Northern Region) Chinese Guide, Indian Institute of Tourism and Travel Management, Ministry of Tourism, Govt. of India

Experience - 1.2 Years (Worked in Cabinet Secretariat as Interpreter, Govt. of India)

Specialization

Chinese Language, Chinese Literature & Translation, China in World Affairs, Chinese Culture.

Research Areas

State Policies on Promotion of Domestic Tourism in China
Chinese language and linguistics
Teaching Chinese as a foreign language
China Foreign Policy.
Chinese Political thought

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Arpana Raj
Assistant Professor

Qualification

Ph.D. (Pursuing), Central University of Jharkhand
M. Phil. In Chinese, JNU, New Delhi
M.A. in Chinese Language, Lit. & Culture

Experience - 6 Years 7 months

Specialization

Chinese Language, Chinese culture and comparative study, China in International Relations

Research Areas

Chinese Language, Chinese Culture, China and International Relations

Research Project

- "China-India Translation Project"

Publications (Journals)

- **A. Raj**, A study on Chinese and Hindi Idiomatic Translation, 2017, GJMS Publications, ISSN (Print/ Online) 2348-0459, UGC Indexed No. 48846

Publications (Book/Chapters)

- **A. Raj**, Book Chapter: "Reflection of Chinese Culture in Chinese Language Text Books for Foreigners", 2014, Paithani Prakashan, Aurangabad, ISBN No. 978-81-924191-3-8
- **A. Raj**, Book Chapter: "Use of Language Propagation as a Tool of Soft Power: Comparison between India and China", 2018, New Delhi, ISBN No. 978-93-86754017-2

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Shashi Kumar Mishra
Assistant Professor

Qualification

Ph. D. (Pursuing) in Korean Language Education
Title- "An Analysis of Korean Tense Education for Korean Language Learners in India."
M.A. in Linguistics

Experience - 7.6 Years

Specialization

Korean Grammar Education, Korean Linguistics, Educational Research Methodology, Educational Measurement and Evaluation, Teaching Korean as a Foreign language, Korean-Hindi Translation.

Research Areas

Korean Language Education in India, Foreign Language Teaching in Multilingual Society, Korean Language and Linguistics, Educational Measurement and Evaluation. Korean-Hindi Translation.

Publications (Journals)

- **S. K. Mishra**, A case study of General Literature Classroom- Does Student Presentation Activate the Community Inquiry?., Korean Journal of General Education, Vo-II, Issue-4, PP-141-173, 2017, [1976-3212]
- **S. K. Mishra** and K. Tashi, (2016) Space for Indian English Teachers in Current Discourse on English Language in South Korea. Literary Cognizance: An International refereed e-Journal of English language, Literature and Criticism, Vo.1, Issue-4, pp 34-38, 2016, [2395-7522]
- **S. K. Mishra** and K. Tashi, (2015). English Language Education in Bihar. Literary Cognizance: An International refereed e-Journal of English language, Literature and Criticism, Vo.1, Issue-3, pp 35-38, 2015, [2395-7522]

Publications (Book/Chapters)

- **S. K. Mishra**, Application of Typological and Morphological Features in Korean Language Classroom in Indian Subcontinent. In: Do Young Kim, ed. (2008). Korean Language Education. Manak Publication. New Delhi. ISBN:
- **S. K. Mishra**, Korea's educational system during the Era of Economic Transition 1966 1996. In: Sushila Narshimhan,



DEPARTMENT OF FAR EAST LANGUAGES

ed. (2008). India and Korea: Bridging the Gaps. Manak Publication. New Delhi. ISBN-10: 8178271982/SBN-13: 9788178271989

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Mukesh Kumar Jaiswal
Assistant Professor

Qualification

Masters in Korean Language Education, Seoul National University, Korea

Experience - 7 Years

Specialization

Korean Language Education : Grammar Teaching, Teaching Composition, Curriculum Development, Korean Linguistic, Translation

Research Areas

Teaching Korean as a foreign language : Grammar Teaching, Teaching Composition, Curriculum Development, Korean Linguistics, Korean Studies

Publications (Book/Chapters)

- **M. K. Jaiswal**, A Comparative Study on Personal pronouns of Korean, Hindi and English language. In: Samajdar, Neeraj, ed. (2012). Korean Studies in India and South Asia, Vol. 1, 2012, ISBN: 978-93-7831-314-1, Mayank Publication, Delhi
- **M. K. Jaiswal**, Teaching Korean 2nd Person pronouns to Indian Learners. In: Samajdar, Neeraj, ed. (2014). Korean Studies in India and South Asia, Vol. -2, 2014, ISBN: 978-81-7211-333-9, Northern Book Publishers, Delhi
- **M. K. Jaiswal**, Comparative Study of Korean Connective Endings and Hindi Conjunctions. In: Kim, Do-young & Mishra, Ravikesh, ed. (2018). Korean Language Education and Korean Culture in India, 2017, ISBN: 978-93-88141-12-3, Goyal Publishers, Delhi

Awards / Fellowships

- Participated in Invitation Training for Foreign Specialist of Korean Language, 2016 (Korean Language Faculty Workshop, 2016)

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The Department of Hindi was established in the year 2018 with a vision to integrate, develop and inculcate the rich ethos and culture of Indian Language and Literature. Hindi is the most widely spoken language in the Indian Sub-continent and across the globe its speakers are increasing at an alarming rate. The popularity and fame of Hindi in the Indian diaspora undoubtedly presents a beautiful picturesque of India. The department aims to develop and grow its students and scholars with great humanitarian value of literature and society. Besides scholarly knowledge the department mission is to link up the course with day-to-day employment perspective. Literary research, language pedagogy, translation, foreign Hindi teaching, script writing, proof reading, theatre and media studies are few noted areas of our departmental domain.



Dr. Ratnesh Vishvaksen
Associate Professor

Qualification

Ph.D. in Hindi
Title - Vidyanivash Mishra ke Nibandhonka Samajik, Sanskritik Vashistya
M.A. in Hindi

Experience - 11 Years

Specialization

Natya Sahitya, Gadya Sahitya, Kavya

Research Areas

Natya Sahitya, Gadya Sahitya, Kavya

Research Guidance

- Kaushalya Sharma, YashpalKe Upanyasonka Samajik, Rajnitik Darshan, Awarded- Jan 2017
- Shahin Shaba, Stri Asmita Ke Sandarbh Main Mannu Bhandari Evamlsmat Chugtai ki Kahaniyon Ka Tu Inatmak Adhyayan, Submitted: 2018-19
- Shilachi Kumari, 2018, Hindi Kathetar Gadya Sahitya: Chinatanaur Chetna
- Anurag Kumar Chaudhary, 2018, 21vi Sadika Hindi Kavya: Mulya, Asmitaaur Vaichariki
- Ji Bhawani Rajak (Course Work, 2018)
- Neeraj Tiwari (Course Work, 2018)

Publications (Journals)

Total - 39

- **R. Vishavaksen**, 'Yah Sahar Kisi KaNahin', Journal-Banas Jan, Year- 2019, ISSN: 2231-6558, UGC No. 41068
- **R. Vishavaksen**, 'Urver Pathaviyata ki Unnat Drishti', Journal- Banas Jan, Year- 2017, ISSN: 2231-6558, UGC No. 41068
- **R. Vishavaksen**, 'Shamim Ujjain aur Grihasthi Kanamak',

Journal- Samiksha, Year- 2017, ISSN: 2349-9354, UGC No. 40891

- **R. Vishavaksen**, 'Mahatva kankshaki Jid Main', Journal-Banas Jan, Year- 2015, ISSN: 2231-6558, UGC No. 41068
- **R. Vishavaksen**, 'Ek Jakhmi Hiran', Journal- Banas Jan, Year- 2014, ISSN: 2231-6558, UGC No. 41068

Publications (Book)

Total - 03

- **R. Vishavaksen**, 'Alochna Ka Samvad Pratisamvad, Publication- Parikrama, Delhi, Year- 2019, ISBN: 978-93-87002-19-7
- **R. Vishavaksen**, 'Mrityu Ki Marod Se Jiwan Ki Khanroch Tak, Publication- Parikrama, Delhi, Year- 2017, ISBN: 978-81-8021-047-1
- **R. Vishavaksen**, 'Sanskriti Lok; Lalityaaur Vidyanivas Mishra, Publication- Parikrama, Delhi, Year- 2015, ISBN: 978-81-8021-004-4

Publications (Chapters)

Total - 02

- **R. Vishavaksen**, 'Vimarsh, Akal Main Utsav, Publication- Shivana, Madhya Pradesh, Year- 2017, ISBN: 978-93-81520-52-9
- **R. Vishavaksen**, 'Natakak aar Bhartendu Naye Sandarbh: Naye Vimarsh, Publication- Ananya, Madhya Pradesh, Year- 2016, ISBN: 978-93-85450-52-5

E-Content

- Jayshankar Prasad ki Kavitaonka Path Vishleshan, Year: 2015-16, UG, Life Long Learning University of Delhi, ISBN: 978-93-85611-57-5, www.illl.du.ac.in,
- Jayshankar Prasad ka Krititvaaur Vyaktitva, Year: 2015-16, UG, Life Long Learning University of Delhi, ISBN: 978-93-85611-57-5, www.illl.du.ac.in,

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SCHOOL FOR THE STUDY OF CULTURE

Department of Tribal Studies

Department of Tribal & Contemporary Law

Department of Performing Arts

Department of Politics & International Relations



DEPARTMENT OF TRIBAL STUDIES

The Department of Tribal Studies has been established in 2018 after the merging two centres namely Centre for Tribal Folklore, Language and Literature and Centre for Indigenous Culture Studies. The objective of the department is to collect, preserve and document of tribal culture of Jharkhand in particular and India in general. The department is to consolidate study with research, while acquiring new bodies of knowledge for the benefit of the discipline Tribal Studies and thereby supporting over all development. The department of Tribal Studies has established to promote research collaboration with local, national and international body or institutions. It is also to offer lifelong educational opportunities, particularly at the tertiary level, to the public. At present department is offering PhD, two courses in Post graduate on (a) Folklore and (b) Anthropology & Tribal Studies till 2018. From 2019, one more course has been started on PG Diploma in Rural and Tribal Development.



Dr. Rabindranath Sarma
Associate Professor

Qualification

Ph.D. in Folklore Research
Title: A Folkloristic Study on Significance of Dress of the Boro Women in the Changing Social Context
MA (Cultural Studies)
Post-Doctoral Research on Rice Myth of North-East India

Experience - 18 Year

Specialization

Folkloristic, Folklore of Rural and Tribal Development, Folklore Documentation, Folklore Museum and Archiving, Digital Humanities.

Research Areas

Folk Literature, Folklore of tribal communities (including Particularly Vulnerable Tribal Groups), Storytelling, Folk Art and Painting, Indian Folk Cultural Performances, Folklore and Globalization

Research Guidance

- Ria Mukherjee, 2014, The Role of Values within a society as Reflected in Hor Hopon (Santhal) Folktales
- Priyanaka Kumari, 2015, A Structural and Functional Study of Family Folklore with special reference to Oraons of Jharkhand
- R. K. Archana Sada Suman, 2018, Research Ongoing

Research Project

Major Research Project Title: A Study about the Empowerment through Mobile Phones among Oraons in Jharkhand (Co-Project Director), Funding Agency: ICSSR,
Amount- Rs. 6.5 Lakhs,
Duration: 2018-19

Publications (Journals)

Total - 140

- **R. Sarma**, Chhau: A Folk Performace of Eastern India, University News, 51 (5), 2013, ISSN 0566-2257.
- **R. Sarma**, Ngi Ngao Kham- A Mythical Figure of Tai-Ahom people of Assam. Journal of Research in Humanities and Social Sciences, 5 (5), 2017, ISSN 2321-9467.
- **R. Sarma**, Jumai and Its Cultural Significance In Boro Society of Assam. Journal of Current Advanced Research, 6 (6), 2017, ISSN 2319-6515.
- **R. Sarma**, Rice Beer and tribes of Assam. International Journal of Humanities And Social Science, 22 (7), pp 13-16, 2017 ISSN 2279-0837 (e), 2279-0845 (p).
- **R. Sarma**, Folklore of Serpent in North-East India. International Journal of Management and Social Science, 5 (6), 2017, ISSN 2321-1784.

Publications (Book/Chapters)

Total - 10

- **R. Sarma**, M. M. Swamy, & B. Narayanan, (eds.), Indigenous Cultures and Dances of Jharkhand. Chennai: National Folklore Support Centre, 2012. ISBN: 978-93-80431-08-6.
- **R. Sarma**, U. Ray, & S. Dey, Lupungutu: Exploring the Relationship between Tribe and Waterbodies. Tribes in Contemporary India: Orality, Identity and Development. Tata Steel, 2016. ISBN: 978-93-80431-08-6.
- **R. Sarma** & R. Mukherji, Tribal Worldview in Selected Santhal Folktales. Tribes in Contemporary India: Orality, Identity and Development, Tata Steel, 2016. ISBN: 978-93-80431-08-6.
- **R. Sarma** & S. Bordoloi, Cult of Aai: Spirit possession in Kaliabor. In Dr. M. Ramakrishnan (ed.) Seminar Essays on Folklore Calicut: Progress Publication, 2018, ISBN: 978-93-84638-69-6

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Dr. Sucheta Sen Chaudhuri
Associate Professor

Qualification

Ph.D. in Anthropology, M.Sc.in Anthropology

Experience - 20 Years

Specialization

Social and Cultural Anthropology

Research Areas

Women contributions in Society and Culture, Gender issues with special reference to tribes and indigenous people

Research Guidance (Awarded-6, Registered-2)

- Dr. Roselima Kamei Pamei, "Gender and Customary Law among Rongmei of Manipur: AnEthnographic Study" (awarded), 2012
- Dr. Hemant Prakash Minj, "A Study on Response to Climate Change in Relation to the Traditional Knowledge System of Indigenous People of Kanhachatti , Jharkhand" (awarded), 2012
- Anindita Nayak, "Gender and Resourse Management among the Khasi Community of Meghalaya, India" (Pursuing), 2013
- Bhagyasree Sahoo, Pursuing course work and finalazing topic on the PVTG (tentative) 2018

Publications (Journals)

Total - 09

- **S.S. Chaudhuri**, "Sustainable Livelihood and Artisan Women in Post-colonial India" in Journal of Gender Equality and Sensitivity,Vol. 11:1, (2016-17), pp.1-12, ISSN 0973-7790
- **S.S. Chaudhuri**, " Pasighat : Post –Colonial Geography and History in Interface" in Glocal Colloquies, Vol.1:1, ISSN NO. 2454
- **S.S. Chaudhuri** and S.K. Chaudhuri. "Textile of Northeast India: Oraloty, Textuality and Beyond" in Art Varta, Vols 6&7 (2&1), 2016, ISSN 0974-7060
- **S.S. Chaudhuri**, "Socio- Political Movements and Women's Empowerment in the Bodo Community" in Jr. of Indian Anthropological Society, Volume, 36 (145-158), 2002-3, ISSN0091-4387
- **S.S. Chaudhuri**, "Social Context or Wancho Design: Towards An alternative Paradigm" in the Jr. of

Anthropological Survey of India, Special Volume on Creativity and Excellence, vol. 51(2:103-120), 2001, ISSN, 0970-3411

Publications (Books-2, Joint Editor of books-3, Chapters-15)

- **S.S. Chaudhuri**, The Bodo Movement and Women's Participation, Pub.by Mittal, New Delhi, 2004, ISBN 81-7099-910-3
- **S.K. Chaudhuri**, and S.S. Chaudhuri. Beads of Arunachal Pradesh, Niyogi Books, New Delhi, 2016, ISBN: 978-93-85285-31-8
- **S.K. Chaudhuri**, and S.S. Chaudhuri (Ed). Fieldwork in South Asia: Memories, Moments and Experiences, Pub. By Sage, 2015, ISBN: 978-81-321-1742-1 (HB)

Chapters

- **S.S. Chaudhuri**, "Plural Representations of Democratic Dissenters and Plight of Minority Voices" in A.K. Danda and et al Ed. Plural Representation in a Democratic State, Published By INCAA, 2019
- **S.S. Chaudhuri**, "Traditional Local Governance and Indigenous Cultural Resource-Management Relations" in Danda and et al Ed. Society State and Governance, 35 INCAA Occasional Papers, Pub. By INCAA, 2015, ISBN 978-93-83088-13-3
- **S.S. Chaudhuri**, "Issues of Modernity, Identity, and Women of Arunachal Pradesh" in Sanjay Pulipaka and et.al Ed. Tradition and Modernity in Arunachal Pradesh, published by Moulana Abul Kalam Azad Asian Institute of Social Studies, Kolkata, 2013, ISBN: 978-81-8364-089-3
- **S.S. Chaudhuri**, "Indigenous Knowledge and the Right to work for Development: A Gender Perspective" in Sarthak Sengupta Ed. Indigenous Knowledge Traditionns, New Delhi, Gyan Publications, 2012, ISBN: 978-81-212-1156-7
- **S.S. Chaudhuri**, "Women, Environment and Indigenous Culture", (In Bengali), in BasabiChakraborty Ed. World of Women: Multiple Voices, Kolkata: Urbee Prakashan, pp. 397-410, 2011, ISBN: 978-93-80648-10-1

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DEPARTMENT OF TRIBAL STUDIES



Dr. Seema Mamta Minz
Assistant Professor



Dr. Rajanikant Pandey
Assistant Professor

Qualification

Ph.D. in Archaeology
Title- Archaeology of Jharkhand with special reference to Hazaribagh
M. A. in Ancient Indian History, Culture & Archaeology

Experience - 10 Years

Specialization

Ancient Indian History, Indian Culture, Tribal culture, Tribal archaeology, tribal history, Ethno-archaeology.

Research Areas

Tribal material culture, Heritage and conservation, History and archaeology

Research Project

Archival, non archival and oral sources-based compilation and analysis of Bir Budhu Bhagat and revolt of 1831-32, funding agency TRI Ranchi

Consultancy

- Monumental documentation at Bundar, Chhatarpur, MP. Funding agency Rio Tinto, Australia
- Social Impact Assessment, Funded by Department of Land Acquisition and Revenue, Govt of Jharkhand

Publications (Journals)

- **S. M. Minz**, "Hazaribagh" The Treasure Place of Pala Art, Journal of Historical Research
- **S. M. Minz**, Jain Art of Jharkhand, Srijit (Journal of Heritage Association of India) Vol.-1 ISSN No. 2320-0766
- **S. M. Minz**, Temple Architecture of Ancient Jharkhand with special reference to Khakhoarta Temple, Pragma Bharti (Journal of K.P. Jaiswal Research Institute, Patna, Bihar)
- S. M. Minz, The Early Farming Community of Jharkhand, Journal of Historical Research, Vol. 51-52
- S. M. Minz, Discovery of religious petroglyphs from Datri; Central Jharkhand, Purakala (Journal of Rock Art Society of India) Vol.20-21, ISSN No. 0971-2143
- **S. M. Minz**, Chapter in edited book Jain iconography of Jharkhand, in book name Art, Architecture and Archaeology of India, Avon publication

Qualification

Ph.D. in Anthropology- University of Delhi
Title: Iron Mining and Corporate Environmentalism
M.Phil in Anthropology -University of Delhi
Title: Business and Development
M.Sc. in Anthropology (Gold Medalist) - Lucknow University

Experience - 9 Years

Specialization

Environmental Anthropology, Business and Organisational Ethnography, Anthropological Theory and Methods

Research Areas

Mining Industry, People and Environment; Corporate Social and Environmental Management; STs, PVTGs, Ho people, Ethnographic Methods

Research Project

Ethnographic Study of PVTGs of Jharkhand
Funding Agency - Dr. Ram Dayal Munda Tribal Research Institute, Ranchi, Funding Amount- 40 lakhs (Co-PI), Duration-2019-21

Publications (Journals)

Total - 04

- **R. Pandey**, Ethnographies of Mining in Late-Industrialism. 2015. Indian Anthropologist. ISSN: 09700927 (Print/Online), UGC Indexed - 20683
- **R. Pandey**, Book Review of Enacting the Corporation.2016. Indian Anthropologists.ISSN: 0970-0927 (Print/Online), UGC Indexed - 20683
- R. Pandey, Demystifying 'Green' in Iron Mining: An Ethnographic Study among the Ho of Jharkhand. 2018. Jharkhand Journal of Development and Management Studies. ISSN 0973-8444 (Print/Online), UGC Indexed- 48435
- **R. Pandey**, & I. Mukherji, Towards Anthropology of Corporate Social Responsibility in India.2018. Oriental Anthropologist. ISSN: 0972-558X(Print) e-ISSN: 0976-3430(online), UGC Indexed- 36629

Publications (Book/Chapters)

- **R. Pandey**, Mine Man Multinational Complex: Towards a Political Ecology of Corporate Profit Sharing in India.2014. Wisdom Publication: Delhi, ISBN No: 978-938-15-0588-5



- **R. Pandey**, Mining and Anthropology in Indian Industrialism. 2019. Singapore: Springer Publication e-ISBN 978-981-13-8090-7/ Print ISBN 978-981-13-8089-1

Publications (e-Contents): **Total 05**

- **R. Pandey**, Module 30 Globalization Theory in Course Theories and Methods in Social-Cultural Anthropology, 2016. UGC ePGPathsala
- **R. Pandey**, Module 29 Postcolonial Theory in Course Theories and Methods in Social-Cultural Anthropology, 2016. UGC ePGPathsala
- **R. Pandey**, Chapter 33 Industrialization and Tribe in Course Tribal Culture of India, 2016. UGC ePGPathsala
- **R. Pandey**, Engaging with Mining in Anthropocene, 2019. MHRD-ARPIT Course for National Resource Centre in Anthropology, UGC-HRDC Utkal University
- **R. Pandey**, Anthropology of Science, Technology and Society 2019. MHRD-ARPIT Course for National Resource Centre in Anthropology, UGC-HRDC Utkal University

Awards/Fellowship

- Chancellor Medal for Being Best Post Graduate Student in all Faculty of Lucknow University
- Gold medal for Best Fieldwork during Masters in Anthropology
- UGC Junior Research Fellowship

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Dr. Tulsi Das Manjhi
Assistant Professor

Qualification

Ph.D. in Linguistics, Jawaharlal Nehru University, New Delhi
 Title: Descriptive Odia Morphology in the Paninian Model
 M.A. in Linguistics

Experience - 7 Years

Specialization

Morphology, Endangered Languages, Theoretical Linguistics

Research Areas -

Morphology, Endangered Languages Documentation, Multilingualism

Research Guidance

- Udaya Nath Murmu, 2018, Research Ongoing.

Publications (Translation Work)

- Translated a text entitled "Semiotics" into Hindi for School of Translation Studies and Training, IGNOU, 2013.
- Translated a text entitled 'Semiotics and Translation' into Hindi for School of Translation Studies and Training, IGNOU, 2014.

Contact

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 Mobile : 8294867644



Dr. T. Neishoning Koireng
Assistant Professor

Qualification

Ph.D. in Folklore "Folk Narratives of the Koireng (Korean) Community of Manipur : A Study"

Experience - 06 Years

Specialization - Oral Narratives

Research Areas -

Urban Folklore, Interdisciplinary Studies on Folklore and Creative Expression, Material Culture and Children Folklore

Research Guidance -

- Hemant Tigga, 2018, Research Ongoing.

Publication (Journal)

- **T. N. Koireng**, Interpretations of the Koirengs Folk Tale of Manipur on the Ngaitai Tale, GNOSIS An International Refereed Journal of English Language and Literature, Yking Books, Jaipur, Vol. 3, No. 3, April 2017, ISSN 2394-0131, Impact Factor: 4.147

Publication (Book/Chapters)

- **T. N. Koireng**, People's Linguistic Survey of India. Volume Eighteen, Part II, The Languages of Manipur, Editors: G. N. Devy, and K. Mao, Nipuni Publisher: Orient Black Swan, 2016, ISBN 978-81-250-6443-5

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DEPARTMENT OF TRIBAL STUDIES



Dr M. Ramakrishnan
Assistant Professor



Sudhanshu Shekhar
Assistant Professor

Qualification

Ph.D. in Folklore/Semiotics
Title - Conceptualization and Configuration of Body, Emotion and Knowledge in Narrative Discourse with Special Reference to Tamil Ballads
M.A. in Folklore
Post Doctoral in Classical Tamil, MHRD, CIIL-CECT, Mysore
Title - Language, Culture and Society: Postmodern Perspective on Tolkappiyam

Experience - 16 Years

Specialization

Folklore, Classical Tamil, Semiotics

Research Areas

Oral Literature, Semiotics Studies, Sustainability Studies

Research Guidance

- Niraj Kumar, Ethnography Study of Folk Performances of Bihar, 2015
- Subhashree Sahoo, Course work, 2018

Research Project

- Minor - Research Project
Funding Agency - MHRD, CICT Chennai
Funding Amount - 2.45 Lakh
Duration - 2015-16
- UGC Research Award
Funding Agency - UGC
Duration - 2016-18

Publication (Journal)

- Dr M. Ramakrishnan, Relevance and Significance of Oral Traditions and Cultural Heritage, 2017, ISDR, ISSN (Print/Online) 2320 - 9283

Publications (Book/Chapters)

- **M. Ramakrishnan**, Concept of Friendship, 2018, Progress Publication, ISBN No. 978-93-84638-69-6
- M. Ramakrishnan, A Note on Sarna Worship, 2016, VISN College, ISBN No. 978-93-81723-74-6
- **M. Ramakrishnan**, Folklore and Human Rights, 2017, ISDR, ISBN No. 978-93-84686-53-6

Contact

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Mobile : 9199140340

Qualification

Ph.D. (To be submitted)
Title: Investigating Multilingual Competence with Special Reference to Discourse Features, Phonological Features and Pedagogical Implications.
M.A (Linguistics), JNU, New Delhi

Experience - 6 Years

Specialization

Linguistics

Research Areas

Multilingualism, Language Endangerment, Phonetics and Phonology, Sociolinguistics

Publications (Journal)

Total - 04

- **S. Shekhar**, 'Exploring the Indian Theory of Meaning: The Sphota Theory and Shabada Tatvaa' The Literary Pearls Vol II 7 B.N College, Patna University, 2014, ISSN 2319-8001.
- **S. Shekhar** & B. Singh, 'Peering into the Question of Tribal and Gender: An Ethnographic and Historical Manifestation through Fiction' The Literary Pearls Vol III 8 B. N. College, Patna University, 2015, ISSN 2319-8001.
- **S. Shekhar**, 'Vanishing Tongues and Folklores' Assonance No.16 16 2016 Department of Russian and Comparative Literature, University of Calicut, Kerala, 2016, ISSN 2394-7893.
- **S. Shekhar**, A dictionary of Lesser-known language 'Nyishi' Language in India, May 2019, 2019, ISSN 1930-2940.

Awards

UCG NET JRF

Contact

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sudhanshu.shekhar@cuja.ac.in
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Dr. Sujit Kumar Choudhary
Assistant Professor

Qualification

Ph.D. in Sociology, M.Phil. & MA, JNU, New Delhi

Experience - 10 Years

Specialization

Sociology of Education, Sociology of Development, Sociological Theories, Sociology of Marginalized Communities

Research Areas

Sociology of Education, Sociology of Development, Sociology of Tribal Life

Research Guidance

- Dipanjali Goswami, "Role of Sarva Shiksha Abhiyan in Elementary Education: A Comparative Study on Parhaiya Tribe in Two Districts of Jharkhand", enrolled in 2014, and the Thesis is likely to be submitted by May, 2019
- Govind Kumar Rohit, 2018
- Mr. Subal Tandi, 2018

Publications (Journals)

Total - 21

- **S.K. Choudhary**, Has the Right to Education Been Realised in Jharkhand, Economic and Political Weekly, Vol. 53, Issue No. 5, 03 Feb, 2018, ISSN (Online): 2349-8846 (UGC Indexed No.-12473). (URL: <https://www.epw.in/engage/article/has-right-to-education-been-realised-Jharkhand>).
- **S.K. Choudhary**, Policies and Programmes on ECCE in India: An Evaluation, Journal of Indian Education. Vol. XXXVII, No. 4, February 2012, NCERT, New Delhi, Pp. 104-113. ISSN: 0972-5628 (UGC Indexed No.-46719). (URL: http://www.ncert.nic.in/publication/journals/pdf_files/JIE_FEB2012.pdf)
- **S.K. Choudhary**, NGOs, Education and Tribes: An Empirical Study of Jharkhand, India, Educational Quest: An International Journal of Education and Applied Social Science, Vol. 8, No. 3, August 2017, Pp. 553-563, ISSN: 0976-7258 (UGC Indexed No.-12616). (URL <https://ndpublisher.in/admin/issues/EQv8n3p.pdf>).
- **S.K. Choudhary**, Higher Education in India: a Socio-historical Journey from Ancient Period to 2006-07, Journal of Educational Enquiry, Issue 8, No.1, University of South

Australia, July 2008, Pp. 50-72. ISSN: 1444-5530 (UGC Indexed No.-7233). (URL: <https://www.ojs.unisa.edu.au/index.php/EDEQ/article/view/484/352>)

- **S.K. Choudhary**, Understanding Ethnography, Social Action, Vol. 59, No. 2, April – June, 2009, New Delhi, Pp. 213-226. ISSN: 0037-7627 (UGC Indexed No.-41612)

Publications (Book/Chapters)

Total - 14

- Education, NGOs and Social Capital: A Micro Study of Tribals, Satyam Books, New Delhi, 2012. ISBN: 978-81-902883-8-5, page nos. xxvii+207.
- Thinkers and Theories in Sociology: From Comte to Giddens, Gagandeep Publications, New Delhi, 2006. ISBN: 81-88865-25-7, page nos.xx+388.
- "Education and Society: A Comparative Study of South Korea and India", in Evolving Indo-Korea Relations: Perspectives on South Asia, edited by Sushila Narsimhan and Kim Do-Young, Manak Publications, Delhi, 2016, Pp. 129-159. ISBN: 978-93-7831-419-3.
- "Analyzing Tribal Education Initiatives: An Empirical Study of Jharkhand", in Development and Discontent in Contemporary Tribal India, edited by Yatindra Singh Sisodia and Tapas Kumar Dalapati, Rawat Publications, Jaipur & New Delhi, 2015, Pp. 219-232. ISBN: 978-81-316-0731-2.
- "Medium of Instruction in Schooling among Tribes in India", in Democratic Governance and Human Development in India, edited by Yatindra Singh Sisodia, Rawat Publications, Jaipur & New Delhi, 2012. pp. 222-232, ISBN: 978-81-316-0559-2.

Contact :

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DEPARTMENT OF TRIBAL & CONTEMPORARY LAW

The Department of Tribal & Contemporary Law (formerly Centre for Tribal & Customary Law) came into being in 2013 with the launching of M.A., LL.M. and Ph.D. programs. The mission of the department is to intricacies and insight about the culture of tribal people(s), their philosophy of life and prevailing customary practices and to instruct about laws and regulation concerning and impacting tribal peoples, either directly or indirectly. It also fosters critical analytical skills for understanding and representation of tribal people(s), both in India and well as outside the nation and to develop an interdisciplinary perspective on the study of tribal people(s) by introducing concepts and debates on governance, development and administration within the national and global framework, emanating from the disciplines of anthropology, sociology, political science, public administration, economics and law. The department is committed to train students for multifaceted research in issues concerning tribal / indigenous people(s). The thrust areas of the departments are Indigenous Peoples and Human Rights, Human Trafficking, Workplace Harassment, Tribal Unrest, Tribal Customary Laws, International Law and Indigenous Peoples, Tribal Governance and Administration, Tribal Welfare and Development, Land Laws, Folk Songs and Ethnography of Primitive Tribal Groups.



Dr. Debendra Kumar Biswal
Assistant Professor

Qualification

Ph.D. in Anthropology / University of Delhi
Title - Ecology and Health: A comparative study of Kutia Kondhs and Gonds in Orissa
M.Sc. Anthropology

Experience - 13 Years

Specialization

Social Anthropology, Customary Law, Environment & Health

Research Areas

Tribal unrest, Customary law and Adivasis, Child and Mother Health

Research Guidance

- Manoj Kumar, Utilization of Common Property Resources for Sustainable Tribal Development : A Study among the Oraons of Jharkhand, 2014
- Ramchandra Oraon, Natural Resource Exploitation and Conflict in West Singhbhum, Jharkhand : A Socio-Legal Study, 2014
- Shalini Saboo, Customary Law and Challenges to Governance in the Context of Land Inheritance of Tribal Women : A Socio-Legal Study of Mundas in Jharkhand, 2015

Research Project

- Study on Particularly Vulnerable Tribal Groups of Jharkhand, Funding Agency - Tribal Research Institute,

Ranchi, Funding Amount - 40 Lakhs, Duration - 2019-21

Publications (Book/Chapters)

Total 12

- **D. K. Biswal**, Environment and health Research: Beyond the School of Biomedicines, 2014, SK. Book Agency, New Delhi, ISBN No. ISBN 978-93-8315-828-7
- **D. K. Biswal**, Socio-economic Factors and Child Mortality: An exploratory analysis of tribal groups, 2014, SSDN Publishers, ISBN No. ISBN 978-93-8183-918-8
- **D. K. Biswal**, Public Policy And Migration: A Lost Paradigm In Jharkhand, 2015, ISRD Publication, ISBN No. ISBN 978-93-84686-04-8
- **D. K. Biswal**, Green economy for inclusive sustainable development: a case study of tribal areas in Odisha, 2016, Bookwell Publishers, New Delhi, ISBN No. ISBN: 978-93-80574-92-9
- **D. K. Biswal**, Children in-between: State, Children and Naxalite Movement in India, 2017, XISS, Ranchi, ISBN No. ISBN: 81-904112-0-9

Contact

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Dr. Rashwet Shrinkhal
Assistant Professor

Qualification

Ph.D., Jawaharlal Nehru University, Delhi
Title - Rights of Indigenous People under International Law : A Critique



M.Phil., Jawaharlal Nehru University, Delhi
LL.M., Banaras Hindu University, Varanasi

Experience - 6.5 Years

Specialization

International Law, Legal Theory, Tribal Rights, Human Rights

Research Areas

Indigenous Peoples Rights and International Law, Tribal Rights under Domestic Legal System, Tribal Customary Laws, Science and Law

Research Guidance

- Sadanand Pandit, 2018, Research Ongoing.

Research Project

- Social Impact Assessment of Medium Irrigation Scheme, Funding Agency - Government of Jharkhand, Funding Amount - 495000, Duration - 6 Months, 2017
- Social Impact Assessment of ISBT, Kanke, Funding Agency - Government of Jharkhand, Funding Amount - 821934, Duration - 6 Months, 2017-18
- SIA of Ranchi Ring Road Pariyojna, Funding Agency - Government of Jharkhand, Funding Amount - 1239844, Duration - 6 Months, 2017-18
- Study on Particularly Vulnerable Tribal Groups of Jharkhand, Funding Agency - Tribal Research Institute, Ranchi, Funding Amount - 40 Lakhs, Duration - 2019-21

Publications (Journals)

Total - 05

- **R. Shrinkal**, Climate Change: Issues of Climate Justice and Ethics published in Indian Journal of International Law, vol.51, no. 4, 2011, pp.550-565, Springer and ISIL, UGC No: 41358.
- **R. Shrinkal**, Problems in Defining 'Indigenous Peoples' under International Law" published in Chotanagpur Law Journal, vol.7, no.7, 2013-2014, pp.187-195, UGC No. :41352.
- **R. Shrinkal**, "Free Prior Informed Consent" as a Right of Indigenous Peoples, published in Journal of National Law University Delhi, Vol. 2, 2014, pp. 54-65, Sage, UGC No.UGC : 41098.
- **R. Shrinkal** & N. Mandal, Relationship Between NGOs and the UN: A Historical Perspective", published in Chotanagpur Law Journal, vol.9, no.9, 2014-2015, pp.34-61, UGC No. 41352.
- **R. Shrinkal**, Tribes as 'Indigenous Peoples': Revisiting Indigeneity Debate in India" in the Oriental Anthropologist 17(2), 2017, Sage, UGC No. 36629.

Publication (Book/Chapters)

- "Coupling Phytoremediation Appositeness with Bioenergy Plants: A Socio Legal Perspective" IN (KuldeepBaudhdh et al. 2016) [Springer: Singapore]
- "Economics, Technology and Environmental Protection: A

Critical Analysis of Phytomanagement Technologies" IN [Vimal Chandra Pandey et al. 2018] [Elsevier]

Contact :

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Mobile : 9939983029



Shamsheer Alam
Assistant Professor

Qualification

Ph.D. (Pursuing), Indian Institute of Technology (IIT) Patna
Title: Tribal Communities at the Crossroad : A Study of Witchcraft and Witch-Hunting in Ranchi (Jharkhand)
Master in Anthropology - Gold Medalist (with Distinction)

Experience - 6.5 Years

Specialization - Tribal Governance and Administration, Tribal Welfare and Development, Research Ethics

Research Areas -

Witch Hunting Among Tribals, Medical Anthropology, Issues and Concerns in Tribal Governance

Research Project

- Ethnographic Study of PVTGs of Jharkhand
Funding Agency - Dr. Ram Dayal Munda Tribal Research Institute, Ranchi
Funding Amount - 40 Lakhs
Duration : 2019-20
- Short Term Consultant for Social Development in South Asian Region
Funding Agency - World Bank, Washington, USA
Funding Amount - 3.9 lakhs
Duration - 30 days 2019

Publications (Journal)

- **S. Alam** & A. Raj, The Academic Journey of Witchcraft Studies in India, Man in India, Volume - 97, Issue - 21, Page : 123-138, 2017, UGC No. 5791
- M. Kumari & S. Alam, Research Reinforcement, Volume - 05, Issue - 01, Page: 118-126, 2017, UGC No. 64785
- **S. Alam** & M. Kumari, Tribal Heritage Conservation in Jharkhand from an Anthropological Viewpoint, Indian Journal of Social Research, Volume - 58, Issue - 06, Page: 913 - 924, (2017). UGC No. 20882



DEPARTMENT OF TRIBAL & CONTEMPORARY LAW

- A. Alam, M. Kumari, & **S. Alam**, Seventh Pay Revision vis-à-vis Higher Education in India, Indian Journal of Social Research, Volume – 59, Issue - 05, Page : 719-733, 2018, UGC No. 20882
- S. Kumar, M. Kumari & **S. Alam**, Ground Realities and Inhibitions in Execution of MGNREGA in Jharkhand, Asian Journal of Research in Social Sciences and Humanities, Volume - 08, Issue - 01, Page : 74 – 93, 2018, UGC No. 1262

Publication (Book/Chapters)

- S. Alam & A. Raj, Witchcraft and Witch Hunting in India : An Assessment, Emerging Challenges of Violence Against Women, Odisha State Women Commission, Bhubaneswar, (pp. 21-25), 2018.

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shamsher.alam@cuja.ac.in
Mobile : 9334230506



Dr. Walter Beck
Assistant Professor

Qualification

Ph.D. in Anthropology, Ranchi University, Ranchi
Title - The Lohra: A Monographic Study of An Artisan Tribe of Chotanagpur, Jharkhand
Master in Anthropology

Experience - 7 Years

Specialization

Socio-Cultural Anthropology, Tribal Development, Customary Laws

Research Areas

Folk Songs, Ethnography, PVTGs

Research Guidance

- Meena Kumari, Witchcraft and Women: A Socio-Legal Study of the Tribal Communities of Ranchi, India, 2013
- Farhan Rahman, A Study of the Problems of Drop-out among Scheduled Tribe Students Pursuing Higher Education in Universities of Jharkhand, 2013
- Eva Jyoti Lakra, Traditional Tribal Self Governance in the Era of Panchayati Raj System : A Socio-Legal Study in the Scheduled Areas of Jharkhand, 2015

Research Project

- Study on Kol Teli of Jharkhand, Funding Agency - Dr. Ram Dayal Munda Tribal Reserch Institute, Jharkhand, Funding Amount - 1 lakh, Duration - 3 Months, 2019
- Ethnographic Study of PVTGs of Jharkhand, Funding Agency - Dr. Ram Dayal Munda Tribal Reserch Institute, Jharkhand, Funding Amount - 40 Lakhs, Duration - 2019-21

Publications (Journals)

Total 6

- **W. Beck**, A Study on Tribal Folksongs of Jharkhand, India, 2018, Prints Publication Pvt. Ltd., ISSN (Print/Online) - 0972-558X / 0976-3430, UGC Indexed No. - 36629
- **W. Beck**, The Folksongs of Jharkhand : An Intangible Cultural Heritage of Tribal, 2017, International Journal of Humanities of Social Sciences, Vol. 11, ISSN 2517 9411

Publications (Book/Chapters)

Total 3

- **W. Beck**, The Lohra of Jharkhand, 2012, K K Publication, Allahabad, ISBN No. 978-81-87568-96-4
- **W. Beck**, Education and Teachers Training in Jharkhand with reference to Human Resource, 2015, ISDR, Ranchi, ISBN No. 978-93-84686-04-8
- **W. Beck**, Mr. Ram C Oraon, Rights of Domestic Workers: Acritical Analysis, 2015, ISDR, Ranchi, ISBN No. 978-93-84686-04-8



Dr. Ashok Nimesh
Assistant Professor

Qualification

Ph.D. in South East Asian Studies, School of International Studies, Jawaharlal Nehru University
Title - ASEAN's Approach towards Human Rights: A case study of Myanmar
M.Phil in South East Asian Studies, School of International Studies, JNU
Master in Human Rights and Duties (Pondichery University) & MA in Politics (Sp. In International Relations) (JNU), PGDHR, (IIHR, New Delhi)

Experience - 6 Years

Specialization

Human Rights, Women Studies, International Conflicts & Disputes



Research Areas

Gender Studies, Labour, Harassment and Workplace, Homeless People and Human Trafficking

Publications (Journals)

- **A. Nimesh**, Emancipation of Women under the Cultural Matrix, ASCENT INTERNATIONAL JOURNAL FOR RESEARCH ANALYSIS, 2018, Navbharat Memorial Foundation, ISSN (Print/Online)- 2455-5967, UGC Indexed - 63514
- **A. Nimesh**, Locating 'Workplace' In Sexual Harassment Law In India, Inspira- Journal of Modern Management & Entrepreneurship (JMME), 2018, Aakrati Advertisers, Jaipur, Rajasthan, ISSN (Print/Online)- 2231-167X, UGC Indexed - 45138
- **A. Nimesh**, Employer's Reprisal And The Sexual Harassment At Workplace, Inspira- Journal of Modern Management & Entrepreneurship (JMME), 2018, Aakrati Advertisers, Jaipur, Rajasthan, ISSN (Print/Online)- 2231-167X, UGC Indexed - 45138

Publications (Book/Chapters)

- **A. Nimesh**, The Judiciary, 2017, National Institute of Open Schooling

Awards/Fellowship

- ICSSR Award of Ten Days Research Methodology Workshop for Doctoral Scholars in Social Sciences to be conducted by DCTCL, CUJ



Shilpi Hembrom
Assistant Professor

Qualification

- MA in Human Rights

Experience - 6.5 Years

Specialization

Indigenous Peoples and Human Rights, Gender and Human Rights, Children and Human Rights

Research Areas

Tribal Self Governance System, Jharkhand Land Laws, Human Rights Laws

Contact

Mobile : 7033057154





DEPARTMENT OF PERFORMING ARTS

The Department of Performing Arts (formerly Centre for Performing Arts) was established in June 2013 under the School for the Study of Culture. Faculty strength comprises of four Assistant Professors, two from music background and two from theatre. Centre offers following courses, one at UG level i.e., Bachelor in Performing Arts (BPA – Vocal Music/Theatre) and two courses at PG level, i.e., Master in Performing Arts (MPA - Vocal Music) and Master in Performing Arts (MPA - Theatre Arts) along with Ph.D. program in Music. BPA course is unique and one of its kind in whole India because we offer an interdisciplinary approach by combining music and theatre curriculum for first three semesters and then student may opt for specialization in either of the two.



Dr. Deepika Srivastava

Assistant Professor

Qualification

Ph.D. in Music

Title-“ Kavi Guru Ravindra Nath Tagore ki sangeet rachnao mein sangeet tatva tatha aadhunik drishtikon”, Sangeet Prabhakar, Sangeet Praveen

Masters in Vocal music

Experience - 12 Years

Specialization

Hindustani Vocal Music

Research Areas

Vocal music, Rabindra Sangeet, Folk music, Theatre music.

Research Guidance

- Lopamudra Majumdar, 2016, Popular use of Percussion Instructions in Nagpur Folk Music And Dance
- Sumit Kumar, 2017, Gwalior gharane ki gayaki ka vartmaan swaroop
- Ashok Bairagi, 2018, Swatantrayottar Natya Nirdesh ko ke Natya Pradarshno mein Raang sangeet : Parampara aur prayog

Publications (Books/Chapters)

Total 08

- **D. Srivastava**, Rabindra sangeet aur taal, Parisheelan, 2009, ISSN: 0974-7222
- **D. Srivastava**, Rabindra sangeet mein shastriya sangeet ka prabhav, Aanvishiki, July-August 2008, ISSN: 0973-9777
- **D. Srivastava**, Veena par swar sthapan ke vividh ayam, NAGARI Pracharini Patrika, 2009, ISSN: UGC List No.-41616
- **D. Srivastava**, Rabindra sangeet: eak shodhparak

addhyan, Sangeet Galaxy, Vol. 2, No.1/January 2013, ISSN: 2319-9695

- **D. Srivastava**, Bangal ke lookgeet, Chaumasa, 91/ March-June 2013, ISSN: 2249-5479

Publications (Journal)

- **D. Srivastava**, Rabindra Sangeet Mein Sangeetik Tatva, 2012, ISBN- 978-81-7453-403-3

Awards/Fellowship

- Adarsh Vidhya Saraswati Rashtriya Puraskar, National Award for Excellence and Best Teacher Award, Global Management Council, 2019
- Chancellor Silver Medal, University of Allahabad, 2004
- National Scholarship, Ministry of Culture, Govt. of India, 2005-2007
- Bhojpuriya Suro Ke Ustaad, 2010

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Mobile : 9839807835



Dr. Jaya Shahi

Assistant Professor

Qualification

Ph.D. in Music

Title - Dhrupad evam Khyal gayan hetu kantha sanskar: Ek vishleshanatmak adhyayan

Master in Vocal Music

Experience - 6 Year

Specialization

Hindustani Vocal Music - Khyaal



Research Areas

Voice Culture, Folk Music, Hindustani Music, Gharana

Research Guidance

- Manish Kumar, 2017, Research Ongoing

Publications (Journal)

- **J. Shahi**, Sangeetopayogik kantha dhwani ki utpatti ka vaigyanik adhaar. Shashvat, Vol. 1, 30-32, 2014, ISSN: 2348-1957
- **J. Shahi**, Vocal execution Techniques and Characteristics of popular Khyal Gharanas, Interdisciplinary Journal of contemporary Research. Vol.2, No. 3, 9-12, 2015, ISSN: 2393-8358
- **J. Shahi**, Ikkisavi shatabdi mein prachalit raag gayan shailiyon mein lokpriya khyal shaili ke badalte swarop par ek drishti. Sodh Drishti Vol.6, No.6, 11-14, 2015, ISSN: 0976-6650
- **J. Shahi**, Swarotpatti par hone wale manovaigyanik evam adhyatmik prabhavon ki tatvik vivechana, Sthapatyam, Vol. 2, Issue. 10, 31-35, 2016, ISSN: 2349-2368.
- **J. Shahi**, Folk operatic theatre Performance, Nautanki : An overview, Anuranjani No. 2, 66-69, 2017, ISSN: 2321-9785

Contact:

E-mail : jaya.shahi@uj.ac.in
Mobile : 9792426262



Shakir Tasnim
Assistant Professor

Qualification

Ph. D. pursuing in Theatre Arts
Title- "Performative Study of 'Urs' of Sheikh Sharfuddin Ahmad YahyaManeri at Biharsharif".
Masters in Theatre Arts, M.A. (Urdu Literature),
M. Phil.,

Experience - 6 Years

Specialization

Direction, Acting, Dramatic Literature

Research Areas -

Performance Studies, Directorial Methods, Film and Theatre Acting

Publication (Book/Chapters)

- Tasnim, Shakir (2013). Salam Bin Razzaque Apne Afsano Ke Aayiye Mein. Maktaba e Sadaf. ISBN: 81-92726-35-5

Directorial Works

Total - 9

- Directed a full length play "Dus Din Ka Anshan", performed at IINRG, Namkum, 2013-14
- Directed a full length play "CourtMartial", performed at different National Festivals i.e. Audrey House (Ranchi), Kalidas Rangalay (Patna) and Bapatla (Andhra Pradesh), 2016-17
- Directed a full length play "SaariRaati", performed at CUJ, 2016-17
- Directed a full length play "Waiting for Godot" performed at Sani Parab organized by Govt. of Jharkhand (Ministry of Youth Affairs), Audrey House(Ranchi), 2017-18
- Directed a full length play "DoosraAdhyay" performed at National Festival organized by Little Thespian, Kolkata, 2018-19

Awards/Fellowship

- Got Scholarship from Denmark to attend "Odin Week Festival" in 2018
- M. Phil topper award by Urdu Academy, Government of Delhi.

Contact:

E-mail : shakir.tasnim@uj.ac.in
Mobile : 08538979428



Venkata Naresh Burla
Assistant Professor

Qualification

Ph.D. (Thesis Submitted), University of Hyderabad.
Title: Experiments with Tradition: A Study of Post-Colonial Indian Theatre
MAIPR (MA in International Performance Research with Erasmus Mundus Scholarship) University of Tampere, Finland and University of Amsterdam, Netherlands
M.P.A (Theatre Arts) – University of Hyderabad

Experience - 9 Years

Specialization

Applied Theatre, Lighting Design, Set Design, Direction



DEPARTMENT OF PERFORMING ARTS

Research Areas

Performance Research, Theatre Criticism, Experimental Theatre, Post-Modern Theatre

Directorial Work

Total 12

- Macbeth (2015, 2017): Performed from 26th-28th November 2015 at Central University of Jharkhand. Same play has been invited for National Theatre Festival, organized by Viveka Service Society, Bapatla, on 26th March 2017.
- Transformation (2015): Performed in the month of April 2015 at Central University of Jharkhand.
- Exploration (2016): Performed on 25th April 2016 at Central University of Jharkhand.
- Gopal Ki Duniya (2014): Performed on the occasion of World Theatre Day on 27th March 2014 at Central University of Jharkhand. Same play has been invited by Asirwad Rangamandal, Begusarai, and presented on 21st September 2014 at Town Hall, Begusarai, Bihar.

- Rajugoru (2013): Performed on 30th March, 2013, on the occasion of Patanjali Festival, organized by Theatre Outreach Unit, University of Hyderabad at Hyderabad.

Publications (Journals)

- **V. N. Burla**, Experiments with Tradition: A case study of Gopal Ki Duniya play, Ayan: An International multidisciplinary journal, ISSN: 2347-4491, Vol. 6, No.3. 325-320, 2018, UGC No. : 49095

Publications (Book/Chapters)

- **V. N. Burla**, Burla, Venkata Naresh, Transforming Stratification in Theatre: A study of contemporary Theatre, 2018, Seminar Proceedings: Essays on Performing Arts. Ed. Dr. M. Ramakrishnan, Venkata Naresh Burla, Publisher CISDR, Tenkasi, ISBN: 978-93-5291-043-5),





The Department of Politics and International Relations has been established in the year of 2019. Since its inception it was offering 5 Years Integrated M.A in International Relations. In the year of 2015 Department has started Ph.D Programme (Full-time) and since the Academic Year of 2017-18 the Department started two years Master Programme. The establishment of the Department of Politics and International Relations provides a new institutional focus at Central University of Jharkhand for teaching and research on political science and international relations in all its dimensions; international and comparative, theoretical and empirical, abstract and practical.



Dr. B. B. Biswas
Assistant Professor

Qualification

Post-Doctoral: Southern Asia Studies
Ph. D. Politics and International Studies
Title: Politico Strategic Dimensions of US-Bangladesh Relations
M. Phil. in Political Science
M.A. Politics and International Studies

Experience - 9.2Years

Specialization

India's Foreign Policy, South Asia, Bangladesh Foreign Policy

Research Areas

Southern Asia, National Security, Foreign Policy, Boarder Studies

Research Guidance

- Neha Kumari Murai, 2015, Title: "Role of World Health Organisation in Global Health: A Case Study of India" 2015 onwards
- Arpana Raj, 2017, Title: "China's Soft Power in Chinese and Non-Chinese Discourses: Higher Education and Chinese Language Learning as Tools" 2017 onwards

Publications (Journals)

Total 05

- **B. B. Biswas**, "India and Nuclear Disarmament: The Relevance of Rajiv Gandhi's Disarmament Action Plan in 21st Century," Indian Journal of Political Science (Meerut), vol. LXXII, no.1, January-March 2011, pp. 293-301, (ISBN: 0019-5510);
- **B. B. Biswas**, "Indo-Russian Partnership: Emerging Dynamics," International Journal of Bangladesh Institute of International Strategic Studies (Dhaka), vol. 32, no. 3, July-2011, pp. 252-68 (ISSN: 1010-9536); with Abu Salha

Md. Yousu

- **B. B. Biswas**, "Problems of Democracy and Nation Building in Pakistan," Social Science in Perspective, C. Achutha Menon (Study Centre & Library) Foundation, Thiruvanthapuram, Kerala, vol. 4, no.1, pp. 28-46 (ISBN:0975-5497)
- **B. B. Biswas**, "India-Bangladesh Relations: Issues, Problems and Recent Development" Politico, vol.1, no.1, November 2013, New Delhi, pp. 43-56 (ISBN No. 2322-0686).
- **B. B. Biswas**, "Factors in 2014 India's Lok Sabha Election" Foreign Affairs Insights and Reviews (FAIR), vol.2, no.2, published by Bangladesh Institute of International Strategic Studies (Dhaka), March- May 2014, pp.2-5 (ISSN: 2311-6286)

Publications (Books/Chapters)

Total-05

- **B. B. Biswas**, "US-Bangladesh Relations: From Initial Hostility to Enduring Partnership," in M. Saleem Kidwai, ed., US Policy towards the Muslim World: Focus on Post 9/11 Period (New York: University Press of America, 2010), pp. 237-48 (ISSN/ISBN No. 0761851577, 9780761851578) with N K Jha;
- **B. B. Biswas**, "China-Bangladesh Relations: Implications for India," in Sudhir Singh, ed., India in Emerging Asia (New Delhi: Pentagon Publishers, 2015) ISBN: 978-81-8274-806-4
- **B. B. Biswas**, "India-Bangladesh Bilateral Agreements: A New Opportunity," in N N Jha and Sudhir Singh, eds., Modi's Foreign Policy: Challenges and Opportunities (New Delhi: Pentagon Publishers, 2016) ISBN-978-81-8274-873-6
- **B. B. Biswas**, "Cultural Linkage in India-Bangladesh Relations," in Satish Kumar and Bibhuti Bhusan Biswas, eds., Modi's Cultural Diplomacy and Soft Power: Issue and Challenges (New Delhi: Ansh Book International, 2016), pp. 49-57.
- **B. B. Biswas**, "Internal Changes in South Asia: Challenges and Opportunities—An Overview," in Bibhuti Bhusan Biswas, ed., Internal Changes in South Asia: Challenges and Opportunities (New Delhi: Ansh Book International, 2018), pp. 1-18, ISBN 978-93-85754-17-2.

Edited Book

Total-05

- **B. B. Biswas**, Modi's Cultural Diplomacy and Soft



DEPARTMENT OF POLITICS & INTERNATIONAL RELATIONS

Power: Issues and Challenges (New Delhi: Ansh Book International, 2016), pp. 1-203 (Co-editor Satish Kumar)

- **B. B. Biswas**, Internal Changes in South Asia: Challenges and Opportunities (New Delhi: Ansh Book International, 2018), pp. 1-341. (ISBN: 978-93-85754-17-2)
- **B. B. Biswas**, Indian Democracy at 70: Challenges Ahead (New Delhi: Mark Books Publication, 2019), pp.1-290 (Co-editor Parshuram Sial), ISBN: 978-93-83131-86-0.

Contact

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Dr. Subhash Kumar Baitha
Assistant Professor

Qualification

Ph.D. in International Relations
Title: "Foreign Policy of Mongolia and its approach Towards Multilateral Engagement, 1991-2013".
M. Phil, NET-UGC Qualified in Political Science, Human Rights And Duties, and International and Area Studies.
M.A in Politics (Spl. in International Relations),

Experience - 2 years

Specialization

India's Foreign Policy, International Relations, Foreign Policy of Mongolia, Inner Asian Studies.

Research Areas

Mongolia's foreign Policy, Area Studies, Foreign Policy.

Research Guidance

- Aman Raj, Pursuing Course Work, 2018

Publications (Journals)

Total - 07

- "Emergence of 'Multi-Pillar' Foreign Policy and its Implications in Mongolia" in Knowledge News: An International Journal of Ideas, January 2013, Vol. 3, No.1, p 240-246, ISSN No: 2231-0150.
- "Changing Dynamics of Mongolia's Foreign Policy" in Knowledge News: An International Journal of Ideas, January 2013, Vol. 3, No.1, p 247-255, ISSN No: 2231-0150.
- "The Economic situation of Central Asia and its relation with India in the 19th century" in Knowledge News: An

International Journal of Ideas, July 2013, Vol. 3, No. 2, p 228-236, ISSN No: 2231-0150.

- "India-Kyrgyzstan Relations: Future Prospects And Challenges" in International Journal of Applied Social Science, September & October 2015, Vol. 2, No. 9&10, p 313-320,ISSN: 2394-1405.
- "India Mongolia Relation's and the Strategic Environment in North- East Asia" in The International Journal of Social Sciences and Humanities, August 2015,Vol.4, No. 8, p 61-80, ISSN: 2320 4702.

Publications (Book 1/Chapters 2)

- **S. K. Baitha**, (2014), "Mongolia's Approach Towards Inner Asian security" GenNext Publication a group of publication Gyan Book Pvt Ltd, ISSN NO-978-93-5128-8022-236-3. New Delhi.
- Book Chapter "Prospective on Mongolia's foreign policy" in the "Mongolia Today" edited by Prof. Sharad K. Soni, Pentagon Press: New Delhi. pp132-145.
- Book review titled "Caste: Oxford India short introductions", (New Delhi, Oxford University Press, 2012), by Surinder S. Jodhka, Asian Ethnicity, Routledge, vol. 16,issue 1,2015.

Contact :

Email : subhgnu@gmail.com
Mobile : 9102145055



Dr. Aprana
Assistant Professor

Qualification

Ph. D, NET/JRF

Experience - 06 Years

Specialization - International Relations

Research Areas -

South Asian Studies, Indian Foreign Policy, Gandhian Studies

Publications (Journals)

Total- 05

- 'भारत के पड़ोस में बदलते समीकरण : एक विश्लेषण', World Focus (in Hindi), Number- 74, May 2018, New Delhi, ISSN No. 2231-0185.
- "Shifting Equations in India's Neighbourhood: An Analysis", World Focus, Special Issue, Number- 459, March 2018, New Delhi, ISSN No. 2230-8458, US Library



of Congress No. 80910345.

- “Emerging SAARC: Role of SAU”, World Focus, Volume XXXIII, Number- 3, March 2012, New Delhi, ISSN No. 2230- 8458.
- “Nepal in China’s Foreign Policy”, World Focus, Volume XXXIII, Number- 5, May 2012, New Delhi, ISSN No. 2230-8458.
- “उभरता सार्क : साउथ एशियन यूनिवर्सिटी”, (in Hindi), World Focus, Number- 11, November 2012, New Delhi. ISSN No. 2231-0185.

Publications (Books/Chapters)

Total- 06

- “Forward Looking SAARC”, an ICWA Outreach Series, edited by Saurabh & B C Upreti, Volume 1, ISBN No.- 9788182745834, Pentagon Press, New Delhi, 2012.
- “Buddhism: Religion as a Component of Soft Power in Foreign Policy Strategy”, edited by Satish Kumar & Bibhuti Bhushan Biswas, ISBN No.- 9788192932743, Ansh Book International, New Delhi, 2016.
- “SAARC: Exploring New Vistas of Cooperation”, edited by Vinod Kumar Bhardwaj & Nandkumar Sawant, ISBN No.- 9789383930432, G. B. Books, New Delhi, 2017.
- “Rapprochement of Indo- Nepal Relations Since 2015”, edited by Pramod Jaiswal, ISBN No: 9789383930692, G.B. Books, New Delhi, 2017.
- “Myanmar and India’s Act East Policy”, edited by Om Prasad Gadde & Amit Kumar Gupta, ISBN No.- 8183248241, Mittal Publications, New Delhi, 2017.
- “PM Modi’s Nepal Visit: Opening New Vistas of Co-operation” edited by B. C. Uperati, ISBN No.- 9789383930678, G.B. Books, New Delhi, 2017.

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 Mobile : 8002042763



Dr. Ranvijay
Assistant Professor

Qualification

Ph.D. in International Politics, Jawaharlal Nehru University, New Delhi
 MPhil in International Politics, Jawaharlal Nehru University, New Delhi
 M.A. in Politics (with specialization in IR), Jawaharlal Nehru University, New Delhi

Experience - 10 Years

Specialization

International Relations Theory, Political Theory, Environmental Conflict,

Research Areas

Environmental Conflict

Research Guidance

- Pratima Sharma, Gitesh Kumar, Research Topic- India’s Foreign Policy in Central Asia: A Case Study of Uzbekistan in Post-Cold war, 2017.
- Pawan Kumar, Research Topic- India-Bhutan Cooperation on Water Resources: A Case Study of Hydropower Projects, 2015

Publications (Journals)

Total - 30

- **Ranvijay.** (2018). State, Environment and Conflict: A Conceptual Framework. Shodh Bharti, 6(2) 278-285.
- **Ranvijay.** (2017) Media and Terrorism: Curriculum for Peace Studies. Annals of Multi-Disciplinary Research, 7(4) 143-146.
- **Ranvijay.** (2017) India and Nepal Relations: Water Perspective. JIGYASA, 10(4) 147-153.
- **Ranvijay.** (2017), Media, War and International Relations. Vaichariki, 7(4) 120-123.
- **Ranvijay.** (2017), Research on Environment Scarcity and Conflict. Research Discourse, 7(25) 49-52.

Publication (Book/Chapters)

- State Environment and Violent Conflict in Chittagong Hill Tracts and the Gaza Strip, ISBN No. 978-93-7831-344-8, 2013

Contact :

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 Mobile : 8521413803





SCHOOL OF EDUCATION

Department of Education



DEPARTMENT OF EDUCATION

The Department of Education was established by the university in the academic year 2013-14 by offering 4 Years Integrated B.A. B.Ed. and B.Sc. B.Ed. programme. Later on the department also offered 2 Year B.Ed. and Ph. D. in Education programme in the year 2015- 16 and 2018-19 respectively. The department conduct its programmes and activities through excellence to make quality education accessible and affordable. The curriculum of all courses includes variety of value added programmes to prepare professional and competent educationists. The department believes that true excellence in education requires a commitment to equity and social justice. Thus, the main aim of the department is to prepare creative, culturally competent and critically reflective teachers who possess deep knowledge in their fields and work collaboratively to achieve high quality education for all.



Dr. Vimal Kishor
Associate Professor

Qualification

Ph. D. in Education,
Title- "Internal Assessment Component at Bachelor of Education Level in Himachal Pradesh University: An Evaluative Study
M. Phil., M.A. (English, Sociology), M.Ed.

Experience - 11.5 Years

Specialization

Educational Research Methodology, Sociology of Education, Educational Measurement and Evaluation, Teacher Education

Research Areas -

Teacher Education, Psychology of Education, Educational Measurement and Evaluation

Research Guidance

- Uttam Kumar, 2018, Research Ongoing
- Lavina Saluja, 2018, Research Ongoing.

Publications (Journals)

Total 36

- **V. Kishor** & A. P. Wangmo, Internal Evaluation Pattern in Sikkim University: An Appraisal. Pedagogy of Learning, 4 (1), 44-48, 2018, ISSN 2395-7344.
- **V. Kishor**, Attitude of college students towards voluntary HIV/AIDS Testing. Educational Quest: An International Journal of Education and Applied Social Sciences, Vo. 8, Special Issue, June, 2017, 371-374, ISSN 0976-7258 (P), 2230-7311 (O).
- **V. Kishor**, & S. Barman, Perception of Prospective Teachers towards Teacher Eligibility Test (TET). EDUCATE: Journal of Educational Research, Vol. 2, No. 1, 31-35, 2016 ISSN: 2394-9422.
- **V. Kishor**, Development of Emotional Maturity among

Students. International Journal of Reviews and Research in Social Sciences (IJRSS)-An International, Peer-reviewed Journal of Humanities and Social Sciences (INDEXED), Vol. 3, Issue. 3, July-September 2015, 106-110, ISSN: 2347-5145.

- **V. Kishor** & P. S. Bhadwal, Innovating Education: Promoting Edutainment through Films as Teaching Aid. Contemporary Research in India (A Peer-Reviewed Multi-Disciplinary International Journal, Vol. 4, Issue 2, 16-19, 2014, ISSN: 2231-2137.

Publications (Book/Chapters)

Total 16

- **V. Kishor**, Competency-Based Teacher Education- A Step towards Quality Education. In: M. Rajendra Nath Babu, ed. (2019). Quality Teacher Education, ISBN: 978-93-5279-473-7.
- **V. Kishor**, Internal Assessment: An Overview. New Delhi: New Delhi Publishers, 2017, ISBN: 978-93-85503-51-1.
- **V. Kishor**, Impact of Teaching of Science through Visual Aids on Academic Achievement. In: T. Manichander, ed. (2016). Emerging Trends in Digital Era through Educational Technology. United States: Lulu Publication, pp. 121-123, ISBN: 978-1-365-18260-0.
- **V. Kishor**, Inspiring Thoughts of Great Educational Thinkers. Pune: Amitesh Publishers & Company, 2015, ISBN: 978-1-329-54655-4.
- **V. Kishor**, Role of Different Accreditation Bodies in Quality Enhancement. In: Santosh Kumar Behera & Pranab Barman, eds., 2015, Higher Education in India: An Overview. New Delhi Publishers, New Delhi, pp. 109-116, ISBN: 978-93-85503-25-2.

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Acknowledgement

Entire CUJ Family





