

Annual Report 2013-14

Central University of Bihar



CENTRAL UNIVERSITY OF BIHAR

(Established under Central Universities Act, 2009)



Visitor

Shri Pranab Mukherjee
The President of India



Chancellor

Smt. Meira Kumar



Vice-Chancellor

Prof. Debdas Banerjee



Registrar

Prof. Mohammad Nehal



Table of Contents

Preface

1. Background
 2. Objective
 3. A March Onward
 4. Schools and Centres / Departments
 - School of Mathematics, Statistics and Computer Science
 - School of Earth, Biological and Environmental Sciences
 - School of Social Sciences and Policy
 - School of Languages and Literature
 - School of Human Sciences
 - School of Media, Arts & Aesthetics
 - School of Law & Governance
 - School of Education
 5. New Academic Programmes
 6. Students Statistics
 7. Salient Features of the Academic Programmes
 8. Facilities for Students /Staff
 9. Statutory Authorities of the University
 10. Meeting of the Authorities
 11. Academic Activities
 12. Celebration of Important Events
 13. Appointments
 14. Publications & Participation in Academic/Administrative Activities
- Annual Accounts**
- (A) Separate Audit Report
 - (B) Balance Sheet for 2013-14



PREFACE

I am happy to present the Annual Report for the year 2013-14 of the Central University of Bihar incorporating various academic, co-curricular and developmental activities. Central University of Bihar (CUB) has completed five years of vibrant and steady growth under the dynamic leadership of the First Vice-Chancellor, Professor Janak Pandey. The University was established with the aims and purposes such as promoting advanced learning and research; building the capabilities to reasoning; imparting employment skills; promoting culture of high integrity in various aspects of life in the society; and, serving local and regional communities in Bihar, in particular, as well as national interests at home and abroad. The University by now finds a place in the academic atlas of the country by virtue of its policies regarding appointment of faculty, admission of students, teaching and evaluation methods, research and, of course, social outreach. The structured and formalised interactions with the external experts in respective fields of education, and concerned citizens, in general, in order to updating the course curriculum and to identify emerging frontiers of knowledge have enabled CUB to consolidate and grow in a systematic manner.

The Government of India has transferred 300 acres of land recently located at Panchanpur, near Gaya, to help building the campus of CUB. The Foundation Stone of the campus was laid by the Hon'ble Chancellor Smt. Meira Kumar, Speaker of the Lok Sabha, in the gracious presence of the First Vice-Chancellor Prof. Janak Pandey, and the distinguished guest, among others, Shri P. K. Shahi, Hon'ble Education Minister, Government of Bihar, on 27 February, 2014. The University now looks forward to unhindered but judicious expansion in terms of academic plans and programmes in its new campus, a part of which is to take shape before long.

The current postgraduate programmes in CUB cover basic and applied sciences; social sciences; human sciences; besides, five-year Integrated BA.LLB. (Hons.), and BSc.LLB. (Hons.); and four-year Integrated Dual Degree BA.BEd and BSc.BEd for 10+2 students. The University has also launched the Integrated MPhil-PhD programme hosted by several departments/centres. Of the academic plans in the offing, the graduate degree programme in Arts and Crafts under the School of Vocational Studies holds priority. Another marked priority of CUB is to building the University-industry linkages.

(Prof. Debdas Banerjee)

Vice-Chancellor

1. Background

The Central University of Bihar is a body corporate set up by an Act of the Parliament called the Central Universities Act, 2009 (25 of 2009). The Act, available on the University website <www.cub.ac.in> provides a legal framework for the University including its academic and administrative functioning. The University is presently located in Patna (BIT Campus, P.O.: B. V. College, Patna - 800014) and Gaya (H.No. 16/13, Ward No. 9 A, New 38 Area, Bisar, Gaya - 823001).

2. Objectives

As stated in the Section 5 of the Act, the objective of the Central University of Bihar is:

“... to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provisions for integrated courses in humanities, social sciences, and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.”

To achieve these objectives, some immediate goals of regional and national relevance have been identified by the University. One may visit the website at <www.cub.ac.in> for information. The University continuously endeavours to evolve policies and programmes which will make it a distinct addition to the national resources for promotion of higher education and research.

3. March Onward

The President of India in her capacity as Visitor of the University constituted various statutory bodies like the First Executive Council, the First Academic Council and the First Finance Committee consisting of eminent academics and administrators of the nation. As a result, we succeeded in shaping the academic architecture of the University which led to the statutory establishment of 14 Schools representing a range of knowledge areas such as : Mathematics, Statistics & Computer Science; Physical and Chemical Sciences; Earth, Biological & Environmental Sciences; Technology; Health Sciences; Social Sciences and Policy; Human Sciences; Languages and Literature; Media, Art & Aesthetics; Management; Education; Vocational Studies; Law and Governance; Agriculture and Development.

Our consultation with experts and other reputed international institutions continued facilitating the identification and launching of new academic programmes in a short span of four years. Strategic decisions to expand academic programmes were also guided by the necessity to create an academic base of a new University, relevance of disciplines and availability of the minimum infrastructure required.

We followed the diktat of a strong faith that a new University must not delay academic activities under the pretext of planning or other constraints because no planning would be realistic without testing it at the level of teacher-student interactions, class room discussions and research activities.

Thus, with a modest beginning in 2009 with Master Programme in Development Studies, we added five Masters Programmes in 2010 namely Biotechnology, Computer Science, Environmental Science, Mathematics and Statistics; three Masters Programmes in 2011 namely Bioinformatics, Communication & Media Studies and Psychology followed by seven new Master Programmes namely Life Science, Economics, English, Hindi, Political Science & International Relations, Sociology and M.Tech. Computer Science in 2012, making a total of 16 Master Programmes. In the last Academic Year 2013-14, Five year Integrated Law-Degree Programmes BA.LLB (Hons) and BSc.LLB (Hons) and Four Year Integrated Dual Degree Programmes BA.BEd and BSc.BEd were started. Integrated M.Phil – PhD programme is being offered in the following Departments/Centres . Computer Science, Mathematics, Statistics, Biotechnology, Life Science, Bioinformatics, Environmental Science, Development Studies, Economics, Political Science & International Relations, and Hindi.

4. Schools and Centres/Departments

The President of India in her capacity as the Visitor, in exercise of the powers vested in her under Sec. 27(3) of the Act, 2009 has been pleased to assent to the amendment to Statute 15 of the University (vide letter no. F. 42-26/2009-Desk (U) dated 28th July, 2010). The following 14 schools are approved and entered in the Statutes:

1. School of Mathematics, Statistics and Computer Science,
2. School of Physical and Chemical Sciences,
3. School of Earth, Biological and Environmental Sciences,
4. School of Technology,
5. School of Health Sciences,
6. School of Social Sciences and Policy,
7. School of Human Sciences,
8. School of Languages and Literature,
9. School of Media, Arts & Aesthetics,
10. School of Management,
11. School of Education,
12. School of Vocational Studies,
13. School of Law and Governance, and
14. School of Agriculture and Development.

At present out of 14 schools eight schools are functional namely, (i) School of Mathematics, Statistics and Computer Science, (ii) School of Earth, Biological and Environmental Sciences, (iii) School of Social Sciences and Policy (iv) School of Human Sciences, (v) School of Languages and Literature, and (vi) School of Media, Arts & Aesthetics are operational with Master's and Integrate M.Phil-PhD programmes, and (vii) School of Law and Governance and (viii) School of Education are operation with Integrated Undergraduate programmes. The University intends to academically link different schools and centres / departments for inter and intra disciplinary studies. Presently the University is offering the following courses under Schools, Centres/Departments: -

4.1 School of Mathematics, Statistics and Computer Science

Mathematics, Statistics and Computer Science have played a very important role in building up modern civilization by perfecting all sciences. The vision of the School is to provide quality education and to undertake and support the interdisciplinary research through interaction between Mathematics, Statistics and Computer Science and also with other domains of knowledge. It consists of three departments namely, the Department of Mathematics, the Department of Statistics and the Department of Computer Science. Setting a novel trend of interdisciplinarity, the three departments under the School are not only educating and training their respective students but also help other disciplines in their regular as well as special courses by providing relevant skill to solve academic and technical issues.

4.1.1 Department of Mathematics

The department of Mathematics (DMTH) was started with the objective of producing trained manpower for undertaking research and teaching in mathematics and allied branches of basic and applied sciences. The Department is committed to impart high quality education in Mathematics and currently offers a Master's programme, Integrated MPhil-PhD programme and a 4-year Integrated BSc.BEd dual degree programme in Mathematics. The Department also supports other departments by offering core and advanced courses in Mathematics. The department has a computer laboratory and all necessary computation facility needed for Mathematics.

Integrated MPhil-PhD Programme in Mathematics

The aim of the PhD programme is to produce students with high quality research capability and independent thinking in various areas of Mathematics. The MPhil programme is a three semester programme from which the students would upgrade to doctoral programme after successful completion of the MPhil course work. The course work of MPhil-PhD programme is designed to develop understanding of foundational topics of Mathematics and a thorough understanding of one major field of interest.

M.Sc. Mathematics

The two year (four semesters) Post Graduate programme is aimed to train the student in all the basic fields of Mathematics so as to develop skill & creative thinking, understanding fundamental concepts on the subject and problem solving to achieve professional competence in Mathematics. The courses have been designed in such a way that the student will be able to learn the subject in a systematic and methodical manner under the able guidance of the faculty and general environment of the university. There are numerous avenues

available to the student after the successful completion of the course. With the wide spectrum of elective courses in the 3rd and 4th semesters, a student can opt for a career in research/teaching/industry. The programme has the following features:

- A balanced blend of foundational, core and specialized courses.
- Ample scope for enhanced interactive teaching in view of the relatively small student - teacher ratio.
- Extensive choice of electives enabling the student to specialize in various existing and emerging streams of Pure and Applied Mathematics.
- Option to choose some of the open elective courses offered by sister departments such as Statistics and Computer Science.

Mathematical and Statistical Laboratory

The computer lab is well equipped with the entire infrastructure needed for computational requirements for the Master's program in Mathematics and Statistics. The students work in Linux and Windows environments. The computer systems are installed with the latest versions of MATLAB, PASW and R. Students are trained in advance numerical methods and analysis of large scale sample surveys using these softwares. They are further exposed to develop programming skills in C/C++ for Mathematical and Statistical applications. Rigorous training in handling and analyzing very large data sets is an essential part of the curriculum.

Faculty

1. Dr. Rajesh Pratap Singh, PhD Mathematics, IIT Guwahati, Assistant Professor
2. Dr. Vivek Kumar Jain, DPhil Mathematics, University of Allahabad, Assistant Professor
3. Dr. Jitendra Singh, M.Phil – PhD Mathematics, IIT–BHU, Assistant Professor
4. Dr. Roushan Kumar, PhD Generalized Thermoelasticity, IIT –BHU, Assistant Professor
5. Dr. Pankaj Mishra, PhD Mathematics, IIT –BHU, Assistant Professor
6. Dr. Shubh Narayan Singh, PhD Mathematics, IIT- Guwahati, Assistant Professor

Publication and Participation in Academic Activities

Dr. Rajesh Pratap Singh

Participation in Conferences/ Seminar / Workshop / Symposia

1. Dr. Rajesh Pratap Singh attended the Orientation programme organised by UGC academic Staff College, Patna University during November 23 – December 20, 2013.

Dr. Vivek Kumar Jain

Papers Published

1. Vivek K. Jain, Pradeep K. Rai, and Manoj K. Yadav, on Finite p-Groups with Abelian Automorphism Group, International Journal of Algebra and Computation, 2014, Vol. 23, No.05: pp. 1063-1077

Participation in Conferences/ Seminar / Workshop / Symposia

1. A series of Lectures delivered on Group Theory in an 'Instructional School-2013' from December 17, 2013 to January 6, 2014 in the Center of Applied Mathematics, Central University of Jharkhand, Ranchi.

Academic Activities

1. Tutorial taken in 'Instructional School on Schur Multiplier and Related Topics' during March 1-8, 2014 in School of Mathematics, Harish Chandra Research Institute, Allahabad.
2. Visited Department of Mathematics, IISER Mohali during Dec7-13, 2013 for research collaboration under the support of Start-up grant.

Research Project

1. Start-up Grant (No. F. 20-2(20)/2012(BSR): Study of odd ordered Nilpotent groups with class two.
2. Member of Indo-Russian Project.

Dr. Roushan Kumar

Papers Published

1. **Roushan Kumar**, S Mukhopadhyay and Anil Kumar, An investigation on thermoelastic interactions under two-temperature thermoelasticity with two relaxation parameters, Mathematics and Mechanics of Solids(2014)(In press)

Participation in Conferences/ Seminar / Workshop / Symposia

1. 'Nonlinear functional analysis and its application', University of Kashmir, Srinagar during October 21-29, 2013.

Research Project

1. Start-up grant Wave propagation in Generalized thermoelasticity, project No: 20- 7(20)/2012(BSR).

Dr. Jitendra Singh

Workshop Attended

1. 'Advanced workshop on Computational Methods for Integral Equations & Applications' held at IIT Kanpur during January 13-17, 2014.

Academic Activities

1. Attended 65th Orientation Programme during 23 Nov. - 20 Dec. 2013 held at UGC Academic Staff College, Patna University, Patna.

Research Project

1. A UGC Funded project is running on the topic of 'Moving boundary problem arising in Controlled Drug Delivery'.

Dr. Pankaj Mishra

Conference Attended

1. Dr Pankaj Mishra et al., participated and presented a paper entitled, "Influence of Rotation on fingering Instabilities in a porous medium with cross diffusion effect: A thermal non-equilibrium approach" in International Conference on Mathematical modelling and Numerical Solution, held at BBAU, Lucknow during July 01-03, 2013.

4.1.2 Department of Statistics

The Department of Statistics (DSTS) is committed to provide a vibrant and creative learning environment to students willing to make a career in the field of core and interdisciplinary statistics. The academic activities of the Department emphasize deep understanding of fundamental concepts and

development of the analytical ability to solve problems which are interdisciplinary in nature. It also encourages its students to engage in extra-curricular and co-curricular activities, essential for development, nurturing of team spirit and developing organizational skills.

Classroom teaching of the Department is supported by tutorials and continuous evaluation system is followed to assess the progress of the students. Small teacher - student ratio ensures individual attention to each student. There is a well-equipped computer laboratory with high speed Internet connection and softwares SPSS/R/MATLAB to work with. There are as many as 50 computer terminals to facilitate the computational requirements. Both Windows and Linux OS are available. After successful completion of the course, the students can move forward for a career in research / teaching / industry.

Integrated MPhil - PhD Programme in Statistics

The Integrated MPhil-PhD programme of the Department of Statistics aims at imparting training as well as arousing interest of students to undertake the development of statistical theory and methods, and to find out new applications of the available statistical techniques to solve real problems of interest. While doing PhD related work, they are required to contribute to statistical knowledge that includes both theoretical developments as well as analytical competence. They are supposed to develop the computational capability to handle large data sets. After completion of the degree, they are expected to serve Government and non-Government organizations, academic institutions, etc. where they could use their improved statistical knowledge to take better decisions based on analytical investigations.

M.Sc. Statistics

The two year (four semesters) Post Graduate programme aimed at training students in theoretical and applied aspects of statistics with due emphasis on the computational aspects. The students undergoing the programme are trained in the applied fields like Biostatistics, Econometrics and Financial Statistics. A student undergoing this programme may also opt for electives offered by the sister departments namely, Department of Mathematics and Department of Computer Science depending upon his/her interest and aptitude.

The present era is referred to as the quantification age where large data sets are available in almost all areas of interest and these are analysed to draw information to arrive at a decision. This kind of work could be performed only by those who are well-trained in statistical methods and analytical skills. In area of business too, business analytics stresses on developing new insights and understanding of business performance based on data and statistical methods. In fact, this area makes extensive use of data, statistical and quantitative analysis, explanatory and predictive modelling to develop decision making. Keeping in view of these scenarios a new elective paper entitled as “Business Analytics” has been added.

Faculty

1. Dr. Arun Kumar Sinha, PhD Statistics, Patna University, Professor
2. Dr. Amit Kumar Misra, PhD Statistics, IIT Kanpur, Assistant Professor
3. Dr. Richa Vatsa, PhD Statistics, TCD (Ireland), Assistant Professor
4. Dr. Mukesh Kumar, PhD Statistics, BHU (Varanasi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Amit Kumar Misra

Academic Activities

1. Successfully completed the Orientation Program organized by UGC Academic Staff College, Patna University from 23rd November 2013 to 20th December 2013.

2. Invited as a resource person by BIT Patna in ‘Ten Days Capacity Development Program for Social Sciences on Research Methodology’ and to deliver a lecture on Jan 15, 2014.

4.1.3 Department of Computer Science

The Department of Computer Science (DCS) is offering two Master Programmes namely M.Sc. (Computer Science) & M. Tech. (Computer Science). It aims at providing opportunities for global excellence and local relevance in research, teaching and technology development. The department also offers several attractive training and workshop programmes along with industry tie-ups according to the market need.

Integrated MPhil-PhD in Computer Science

The Department of Computer Science also offers integrated MPhil-PhD programme in Computer Science. The thrust of research includes Software Engineering, Operating Systems, Image Processing and Computational Intelligence. The Department has also expertise in the field of data mining, computer networks, speech processing, social networks, etc.

M. Tech. Computer Science

The two year (four semesters) M. Tech. programme in Computer Science is planned to meet the need of industry as well as research and academics. The M. Tech. programme lets students do a number of specialized courses as well as lets them explore their research and development skills through project work. Course design of M. Tech. in Computer Science balances core courses, electives and a dissertation, catering to both CS and non-CS background students.

M. Tech. Computer Science trains the students to grow into highly sought-after trained personnel for industry jobs as well as motivates them to take up research as a career in Computer Science. Workshop and expert lectures are conducted to enhance the research skills as well as soft skills of the students.

M.Sc. Computer Science

The two year (four semesters) Post Graduate programme lays emphasis on the theoretical concepts as well as on practical experience and industry interaction. The exercises/assignments/projects given to them help the students to become independent quality professionals and researchers. The programme has the following salient features:

- Designed to take students through rigorous ground-work for taking up research or coming out industry ready.
- Sound foundation in the fundamentals of Computing, Mathematical and Statistical sciences.
- Ample technology orientation via laboratory-intensive courses.
- Rich (open) elective course basket providing plenty of space for inter-disciplinarity required by several emerging areas.

Computer Science Laboratory

Department of Computer Science is having well equipped air-conditioned lab with high end computers with all required software including servers to provide computing facilities to the students. The department has a dedicated network printer for providing printing and scanning facility as well. The department has Tablets and Android mobile phones for development of android based applications.

Faculty

1. Dr. R. Rajesh, PhD Computer Science, University of Kerala, Associate Professor
2. Dr. Prabhat Ranjan, MTech & PhD Computer Science, MNNIT Allahabad, Assistant Professor

3. Mr. Nemi Chandra Rathor, MTech Information Technology, Indian Institute of Information Technology (Allahabad), Assistant Professor
4. Ms. Smita Roy, MTech Computer Sciences and Engineering, NIT Durgapur, Assistant Professor
5. Mr. Jainath Yadav, MTech Computer Science, IIT Kharagpur, Assistant Professor
6. Mr. Tarok Pramanik, MTech Computer System and Technology, Dr. B.C. Roy Engineering College, (Durgapur), Assistant Professor

Publication and Participation in Academic Activities

Dr. R. Rajesh

Participation in Conferences/Seminar/Workshop/Symposia

1. Participated as a reviewer of the IEEE Conference on Clean Energy and Technology (CEAT 2013) during 18- 20 Nov. 2013 in Malaysia.
2. Participated as a reviewer of the IEEE International Symposium on Business, Engineering & Industrial Application, during 22-25 Sept. 2013 in Malaysia.
3. Participated as Technical Committee member of the Annual International Conference on Emerging Research Areas (AICERA), Amal Jyothi College of Engineering, during 4-6 June 2013.
4. Delivered an invited talk titled “Design of fuzzy logic system and genetic algorithms”, Short Term Faculty Development Programme on Soft Computing, College of Engineering, Karunagappally on 28th Sept. 2013.

Dr. Prabhat Ranjan

Participation in Conferences/Seminar/Workshop/Symposia

1. Participated in International Conference on Computer and Communication Technology (ICCCT 2013) at MNNIT Allahabad, UP, during Sept. 20-22, 2013.
2. Acted as Technical Programme Committee member of the International Conference on Information Systems and Computer Networks (ISCON 2014), GLA University, Mathura, during March 1-2, 2014.

Mr. Nemi Chandra Rathore

Papers Published

1. Published a journal entitled Improved Clustering Protocol for Delay Minimization, **Nemi Chandra Rathore**, Priyank Gour, Bhagwan Sahay Meena, Vishal Jain & Neeraj Jain, International Journal of Computer Networking, Wireless and Mobile Communications, ISSN(P): 2250-1568; ISSN(E): 2278 – 9448, Vol. 3, Issue 5, Dec 2013, 41-48.
2. Divya Kumari and **Nemi Chandra Rathore**, Inference Attacks in OSNs: A Survey, International Conference on Recent Trends in Computer Science & Engineering 2014.
3. Shashi Kant Tiwari and Nemi Chandra Rathore, Survey on VANET Privacy Preserving Protocols, International Conference on Recent Trends in Computer Science & Engineering 2014.

Participation in Conference/Seminar/Workshop/Symposia

1. Attended a half – day free seminar organized by Mathworks named as “MATLAB and Simulink for Engineering Education” on August 2013 in Patna.

Mr. Jainath Yadav

Papers Published

1. **Jainath Yadav**, K. Sreenivasa Rao, 'Detection of vowel offset point from speech signal', IEEE Signal Processing Letters, Vol. 20, No. 4, pp. 299-302, 2013.
2. **Jainath Yadav** and K. S. Rao, 'Analysis of Detection of Vowel Offset Point for Coded Speech', International Conference on Contemporary Computing (IC3-2013), Noida, India.
3. Ravi Kumar, **Jainath Yadav** and K. Sreenivasa Rao, 'Emotional-speech synthesis from neutral- speech using prosody imposition', International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE3-2013) organized by Dept of Computer Science, CUB in Patna.

Participation in Conferences/Seminar/Workshop/Symposia

1. Presented a paper entitled 'Analysis of Detection of Vowel Offset Point for Coded Speech', 2013, Noida in IC3 (Springer LNCS conference).

Activities Organised by Department

1. Organised FOSS workshop on PHP for M.Sc. Computer Science and Bio-informatics on 20th April, 2013.
2. Organised Summer training program on PHP and .NET, from 10th June 2013 to 13th July 2013.
3. Organised Expert lecture on "Computational Modeling, Unix and Open Source" by Dr. P.K. Mishra (Director, School of Computer Science, Indraprastha University, New Delhi) on 13th August 2013.
4. Organised Placement Training by Astric Solutions, during 5th-6th September, 2013.
5. Organised Faculty development program on Latex with the support of IIT Bombay Spoken Tutorial Project on 10th September 2013.
6. Organised Expert Lecture on 'Emotional Intelligence' by Mr. Sushil Chandra (Scientist F, Institute of Nuclear Medicines and allied sciences, New Delhi) on 11th September 2013.
7. Organised Placement Training by Astric Solutions during 12th-13th September, 2013.
8. Organised Mock interview session by HPIndia along with Astric Solutions on 18th September 2013.
9. Organised FOSS workshop on Linux by IIT Mumbai on 26th September 2013.
10. Organised Workshop on Understanding the needs and Emerging Trends in Industries and Research, organized by Dr. Prabhat Ranjan during 22-23 November 2013.
11. International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE) - 2014, organized by Dr. R. Rajesh and Dr. Prabhat Ranjan during 8th-9th February 2014.

4.2 School of Earth, Biological and Environmental Sciences

Reflecting a proud tradition of excellence and embracing the challenges and opportunities of the 21st century, the School of Earth, Biological and Environmental Sciences provides a unique platform of

comprehensive training and research in both Biotic and Abiotic components of life and nature. Students, fellows and faculty in the School get exposed to the forefront of these fields to tackle today's challenges in human health and the environment and to meet the demands of the growing industries in the areas from drug discovery to biofuels, stem cells to next generation genome sequencing and emerging diseases to environmental problems and their solutions. It has very diverse faculty, graduated and trained from premier institutes of India and abroad with strong research and teaching backgrounds.

The course structure of different programmes under the school is a good blend of basic and advanced, classical and applied fields of studies. The summer training, project work, field work and dissertation work provide students ample exposure to various research laboratories as well as industries. Two centres namely, Centre for Biological Sciences and Centre for Environmental Sciences are presently functioning under the school.

4.2.1 Centre for Biological Sciences

The Centre for Biological Sciences (CBS) is currently offering three different Master level Programmes - M. Sc. Life Science, M. Sc. Biotechnology and M. Sc. Bioinformatics. These Programmes include well-designed theory and practical courses. Innovation-based training is the key to train students with a special emphasis on understanding the basic as well as modern concepts in biological processes for pursuing research in frontier areas of Biological Sciences. Each of these three Programmes equip students with deep theoretical as well as practical understanding of different aspects of Biological processes and promote them to take on an integrative approach for their studies and research.

The discipline of Life Science covers several areas of Biological Sciences including Biochemistry, Microbiology, Molecular Biology and Environmental Science related to "Life in Diversity". It has a good balance of animal and plant sciences which broaden the students knowledge and capabilities and they have diverse options to choose for their future studies and research. Vaccine, various drugs, high yielding and stress tolerant varieties of crops and easily available clinical tests are few examples of impact of life sciences on the society. This Programme promises to enable the students for innovative solutions to fundamental challenges related to medicine, food, agriculture and environment.

Biotechnology has emerged as a major thrust in the field of science and technology having potential to boost the economy of several countries including India. The voice of global Biotechnology in 21st century is to transfer the bio-based technology from "Lab to Land and from Bench to Business" to bring the cost of bio-based commodities within the reach of common man. The courses in Biotechnology Programme are mainly related to recent and emerging trends in Biology but the students are also taught Biostatistics which enables them to analyse their data, draw meaningful conclusions and publish in reputed journals. The Programme equally gives emphasis on integrated approaches in human health, recombinant DNA technology, transgenic development, bioremediation and informatics. Students work directly with faculty on real-world projects, gaining hands-on skills necessary to solve emerging problems.

The post-genomic era has seen Biology grow from a 'soft' discipline to a 'hard' one. This has initiated a scientific revolution driven by Genomics and Bioinformatics. Bioinformatics is a rapidly growing field of study that centers around at the interface of Biology and Information Technology. The Bioinformatics Programme consists of a good amalgamation of courses like Biology, Computer Science, Statistics, Mathematics and Physics. The students are trained for both dry and wet-lab techniques enabling them to better suit for different research laboratories and industries which look for personnel well-taught in programming languages,

can do molecular modelling and also have abilities to work on bench producing raw data to analyse further using various Bioinformatics tools.

Centre for Biological Sciences is equipped with state-of-the-art technology and equipment that provide a stimulating environment for teaching and research.

Integrated MPhil - PhD Programme in Biological Sciences

The Centre for Biological Sciences (CBS) is currently offering integrated MPhil-PhD in Biotechnology, Life Science and Bioinformatics with diverse field of specializations including Stem Cell technology, Plant Molecular biology, Immunotechnology, Neurobiology, Protein chemistry, Structural Biology, Cancer and Infection Biology, Molecular Modelling & Simulation, Drug Designing, Computational Biology, Biological Database etc.

The syllabus was framed with a great care so that the theory, practical and tutorials would meet the requirement of such a challenging and demanding field. Innovation-based training is the key to train students with a special emphasis on understanding the basic as well as modern concepts in biological processes for pursuing research in frontier areas of Biological Sciences.

Each of these three Programmes equip researchers with deep theoretical as well as practical understanding of different aspects of Biological processes and promote them to take on an integrative approach for their studies and research. In bioinformatics, students are well trained for both dry and wet-lab techniques enabling them to better suit for different research laboratories and industries which look for personnel well-taught in programming languages, can do molecular modelling and also have abilities to work on bench producing raw data to analyse further using various Bioinformatics tools.

Centre for Biological Sciences is equipped with state-of-the-art technology and equipment that provide a stimulating environment for teaching and research. CBSs is actively involved in research by having the distinction of running more than 10 externally funded R & D projects sanctioned from various Government agencies.

M.Sc. Life Science

Department offers Master's programme in Life Science. The MSc Life Science is designed to give opportunity to learn modern biological techniques and provide an environment to understand various fields of basic and applied biology e.g. genetic greening, immunology, recombinant DNA technology, protein crystallography, neurobiology, microbiology, cancer, malaria etc. This platform nurtures student's thinking to observe, analyze, interpret and utilize the biological techniques and phenomena in basic as well as applied fields. Different modes of teaching are adopted to train students. Presentations, assignments, experimental proof of theories, field observation, data analysis and computer applications in biology are few methodologies which are being applied for teaching. To engage students' mind in the course a continuous evaluation methods has been followed. Credits have been given to summer internship to utilize vacations and provide them a laboratory exposure.

Life Science Laboratory

A laboratory is being established for the students of Life Science for the purpose of teaching and research. The Life Science laboratory is planned to establish various facilities of modern biology including Animal and Plant tissue culture, Proteomics, Hybridoma, Recombinant DNA technology, various types of Microscopy etc. The laboratory going to be equipped with Automated shakers, Inverted and Upright Microscopes, Fluorescence Microscope, Incubators, Laminar flow hoods, UV-Visible spectrophotometer, Autoclave, Refrigerated centrifuge, -80°C Deep Fridge, Cryocan, Millipore water purification system, PCR, Real time PCR, FPLC system and 2D electrophoresis system. The laboratory will focus on various field of

basic and applied biology like Crop improvement, Development of immunoassays, Stress physiology of plants, Parasite biology, Physiology/Endocrinology etc.

Faculty:

1. Dr. Gautam Kumar, MPhil, PhD Plant Molecular Biology, JNU (New Delhi), Assistant Professor
2. Dr. Amrita Srivastava, PhD Bio Science, BHU (Varanasi), Assistant Professor
3. Dr. Tara Kashav, PhD Structural Biology, JNU (New Delhi), Assistant Professor
4. Dr. Mandavi Kumari, PhD Life Science, JNU (New Delhi), Assistant Professor
5. Dr. Amit Ranjan, PhD Life Science, JNU (New Delhi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Gautam Kumar

Participation in Conference / Seminar / Workshop / Symposia

1. Attended an international conference entitled 'Preparing Future Rice Plant Towards Saline Areas: Engineering SOS Pathway' on Frontier Discoveries and Emerging Opportunities in Life Sciences, H.S. Gour Central University, Sagar, during 13 -15 February, 2014.

Funded Research Grants

Name	Amount	From	Sanction letter No.	Status
Dr. Gautam Kumar (PI)	6 Lakhs	UGC	F.20-13(20)/2012 (BSR)	Ongoing
Dr. Gautam Kumar (Co-PI)	23 Lakhs	BARC	35/14/14/2014-BRNS	Ongoing

Dr. Amrita Srivastava

Papers Published

1. **Amrita Srivastava** and Arun K. Mishra (2014) Regulation of nitrogen metabolism in salt tolerant and salt sensitive Frankia strains. Indian Journal of Experimental Botany. Vol. 52: 352-358.
2. **Amrita Srivastava**, Satya S. Singh and Arun K. Mishra (2014) Modulation in fatty acid composition influences salinity stress tolerance in Frankia strains. Annals of Microbiology. (DOI: 10.1007/s13213-013-0775-x)

Dr. Amit Ranjan

Papers Published

1. **Ranjan A**, Behari J and Mallick BN (2014) published a paper – Cytomorphometric changes in hippocampal CA1 neurons exposed to simulated microgravity using rats as model. Front. Neurol. 5:77. doi: 10.3389/fneur.2014.00077

Awards / Recognition

1. PhD awarded on 11 December, 2014.

M.Sc. Biotechnology

The two year (four semesters) Post-Graduate Programme has an interdisciplinary approach with participation of faculty/researchers across the University. Hands-on training with professional and management

skills are keys to our teaching pedagogy. This Programme focuses on responsibility building and ethics in research and policy. We are equally giving emphasis on integrated approaches in human health, transgenic crop development, environmental sciences and informatics. The course also comprises of project dissertation, presentation and comprehensive viva-voce as part of evaluation system. Students also visit major research institutes in the form of educational tour and Biotechnology industries to learn various aspects of product developments. One of the major goals of the Biotechnology Programme is to engage students by actively involving them in cutting-edge research. Currently, departmental research is mainly focussed in the areas of Cancer Biology, Auto-immune Diseases, Fungal Diseases, Lung Physiology, Neuroethology, Immunology, Genetic Engineering, Stem Cell Therapy, Proteomics, Molecular Biology, Signal Transduction, Interferon (IFNs) Transcription Factors, Neuroimaging, Electrophysiology, Biochemistry of Fungal Pathogens and Genesis of Secondary Metabolites as well as Genetic manipulations of Plants which include Plant Tissue Culture and Molecular Marker Developments. Apart from the above advantages, M.Sc. Biotechnology Programme prepares the students to be leaders in research, policy and business.

Biotechnology Laboratory

Biotechnology Laboratory is equipped with state of the art technology and equipment that provide a stimulating environment for teaching and research. The list includes multiple Biosafety Cabinets, Laminar Air Flow, Autoclave, Water bath with wide temperature ranges, Dry Block Heater (Heating Block), Rotatory Shaker, Stackable Incubator Shaker, Cell Sonicator, Many types of Microscopes (Fluorescence, Inverted, Compound and Normal), various types of refrigerated Centrifuges, Nano Drop UV/VIS Spectrophotometer, ELISA Plate Reader, Spectrophotometer, Gradient Thermal Cycler, Real-Time PCR, UV/VIS Transilluminator, Gel Documentation Systems, Electrophoresis units (Horizontal and Vertical), Blot Transfer System, Deep Freezers (-200 C and -860 C), Ice-Flakes Machine, Cryo- Can, Lyophilizer, Complete Milli-Q Water System etc. Facilities for animal, plant and microbial culture work are also available.

Faculty

1. Dr. Rizwanul Haque, PhD Immunotoxicology, Jamia Hamdard University (New Delhi), Associate Professor & Head
2. Dr. Nitish Kumar, PhD Botany, CSIR-Central Salt and Marine Chemicals, Research Institute, (Bhavnagar), Assistant Professor
3. Dr. Krishna Prakash, PhD Molecular Biology, JNU (New Delhi), Assistant Professor
4. Dr. Jawaid Ahsan, PhD Neurobiology, NCBS, TIFR, Bangalore, Assistant Professor
5. Dr. Antresh Kumar, PhD Membrane Biology, JNU (New Delhi), Assistant Professor
6. Dr. Lokendra Kumar Sharma, PhD Biochemistry, CSIR-NBRI & Lucknow University, Assistant Professor

Publication and Participation in Academic Activities

Dr. Rizwanul Haque

Papers Published

1. Lei F, Song J, **Rizwanul Haque**, Xiong X, Fang D, Wu Y, Lens SM, Croft M, Song J. Transgenic expression of survivin compensates for OX40-deficiency in driving Th2 development and allergic inflammation. *Eur J Immunol*. 2013 Jul;43(7):1914-24.
2. Lei F, Song J, **Rizwanul Haque**, Haque M, Xiong X, Fang D, Croft M, Song J. Regulation of A1 by OX40 Contributes to CD8(+) T Cell Survival and Anti-Tumor Activity. *PLoS One*. 2013 Aug 1;8(8)

3. Mehboob Ali, Sagheer Ahmed Khan, Peter S Chang, **Rizwanul Haque**, Kanchan Bhatia and Saif Ahmad. Habb-e-Asgand, polyherbal Unani formulation protects liver and antioxidative enzymes against paracetamol induced hepatotoxicity. Accepted for Publication in Pharmaceutical Biology, 2014 Jan 6.

Participation in Conference/Seminar/Workshop/Symposia

1. Delivered an invited lecture entitled “Cellular Immunity, Cytokines, Chemokines and Inflammatory response” for CME programme in order to promote immunology subject during 18-19 October 2013 at RMRIMS, Patna.

Dr. Nitish Kumar

Papers Published

1. **Nitish Kumar**, Bhattacharya A , Saini U, Joshi R, Kaur D, Pal AK, Gulati A, Mohanpuria P, Kumar S, Kumar S, Ahuja PS (2014) Osmotin expressing transgenic tea plants have improved stress tolerance and quality parameters. Transgenic Research 23:211-23 (Springer Publishing).
2. **Nitish Kumar**, Kumar A, Prakash K, Sinha RK (2013) In vitro plant propagation of *Catharanthus roseus* and assessment of genetic fidelity of micropropagated plants by RAPD marker assay. Applied Biochemistry and Biotechnology. 169: 894-900 (Springer Publishing).
3. **Nitish Kumar**, Bhattacharya A, Gulati A (2013) L-glutamine and L-glutamic acid facilitate the establishment of cell-cell contact between *Agrobacterium* and recalcitrant leaves of important tea cultivars. Applied Biochemistry and Biotechnology.70:1649-64 (Springer Publishing). Sequence submitted to NCBI: 8 (Accession No. KM029957 to KM029964)

Participation in Conference/Seminar/Workshop/Symposia

1. Attained training course on ‘Application of Nanotechnology in Agriculture’ organized under World Bank Funded NAIP-ICAR project at Central Arid zone Research Institute, Jodhpur from March 10 to 19, 2014.

Research Projects

1. Project entitled “Molecular Characterization of Molecular Diversity in Makhana (*Euryale ferox*)” sanctioned from SERB-DST, Govt. of India under Young Scientist Scheme of budget Rs. 23 lakhs.

Dr. Antresh Kumar

Participation in Conference/Seminar/Workshop/Symposia

1. Vandana Kumari, **Antresh Kumar** presented poster on “Epigenetic regulation of Echinocandin B production in *Aspergillus nidulans*” Biosparks-2013 during 15 -16 February 2014 held at JNU, New Delhi.
2. Vandana Kumari, **Arvind Kumar Verma**, **Antresh Kumar** presented poster on “Effects of nitrogenous sources on antifungal secondary metabolite production by *Aspergillus nidulans*” in Current trends in Life Sciences workshop held on 1st November, 2013.
3. Kanak Raj Kanak, **Antresh Kumar** presented poster on “Elucidation of genetic network involved in the development of ethanol tolerant yeast” in Current trends in Life Sciences workshop held on 1st November, 2013.
4. Attended 6th Foundation day lecture on “Peptide bond- the Forth fluorescent molecule of the Protein” at NIPER, Haripur on 26th November 2013.

5. Attended MHRD sponsored workshop on “National Mission on Education through Information and Communication Technology (NMEICT)” conducted by NIT, Patna, during 06- 07th June 2013.

Research Projects

1. Received a grant of Rs 12.0 lakh for research on “*Screening and characterization of antimicrobial activity of fungal secondary metabolites to combat multidrug resistance in Staphylococcus aureus*” from the DST under the scheme of *Empowerment and Equity Opportunities for Excellence in Science* in September 2013.

Activities Organised by the Centre

1. Two days hands-on training programme on “BASIC BIOINFORMATICS” during February 17th-18th, 2014 organised at Central University of Bihar, Patna.
2. Weekly seminar series organized by Centre for Biological Studies.

M.Sc. Bioinformatics

The two year (four semesters) Post Graduate Programme gears the students towards research, not only providing them with basics understanding of the subject but also inculcates in them the thirst for applied research in the frontiers area like System Biology and non-coding RNA. Analytical techniques and management and analysis of biological databases are also taught since there has been a paradigm shift in theoretical biology from the reductionist approach of molecular biology to an integrative approach of treating the cell as a system.

Bioinformatics Laboratory

Extensive infrastructure facilities have been created in the form of newly constructed computer lab, which is equipped with latest computers of high configuration having IntelI-7 Quad Core processors. All computers are connected with high band-width Internet connection powered by 1Gbps NKN backbone. We also have three HP and Dell work station equipped with Intel Xeon processor with 24GB RAM for high performance computing in Molecular Modelling, Drug design & Molecular Dynamics.

Faculty

1. Dr. Vijay Kumar Singh, PhD Molecular Medicine, University of Turin (Italy), Assistant Professor
2. Dr. Krishna Kumar Ojha, PhD Bioinformatics, BHU (Varanasi), Assistant Professor
3. Dr. Durg Vijay Singh, MTech and PhD Bioinformatics, IIIT Allahabad, Assistant Professor
4. Dr. Anil Kumar, PhD Biotechnology, IIT Guwahati, Assistant Professor

Publication and Participation in Academic Activities

Dr. Vijay Kumar Singh

Papers Published

1. **Vijay Kumar Singh**, Valeria Quarona, Gianluca Zaccarello, Antonella Chillemi, Enrico Brunetti, Enza Ferrero, Ada Furano, Fabio Malavasi (2013). CD38 and CD157: A long journey

from Activation markers to multifunctional molecule. *Cytometry Part B (Clinical Cytometry)*. 2013 Jul-Aug;84(4):207-17.

2. **Vijay Kumar Singh**, Nanaocha Sharma, et al. (2013). Identification of two regions in the p140Cap adaptor protein that retains the ability to suppress tumor cell properties. *American Journal of cancer Research*. 2013 Jun 20;3(3):290-301.

Participation in Conference/Seminar/Workshop/Symposia

1. Delivered a lecture on “Functional Genomics” during two days hands-on training programme on Basic Bioinformatics during February 17-18th, 2014 at Central University of Bihar, Patna.
2. Reviewed abstracts under sub-theme “Bioinformatics and Genome analysis” of International Conference on Health, Environmental and Industrial Biotechnology: BioSangam 2013, organised by Motilal Nehru National Institute of Technology Allahabad.

Dr. Durg Vijay Singh

Papers Published

1. Kesharwani RK, **Singh DV** and Misra K *In Silico* designing of novel antimalarial drugs by using structure based approach by targeting falcipain-3 Vector Borne Disease. *J Vector Borne Dis*. 2013; 50(2):93-102. PMID: 23995310
2. **Singh DV**, Agarwal S, Kesharwani RK, Misra K. 3D QSAR and pharmacophore study of curcuminoids and curcumin analogs: interaction with thioredoxin reductase. *Interdiscip Sci*. 2013 Dec;5(4):286-95. PMID:24402822
3. **Singh DV**, Agarwal S, Singh P, Godbole MM, Misra K. Curcumin conjugates induce apoptosis via a mitochondrion dependent pathway in MCF-7 and MDA-MB-231 cell lines. *Asian Pac J Cancer Prev*. 2013;14(10):5797-804. PMID:24289580.

Participation in Conference/Seminar/Workshop/Symposia

1. **Singh DV**, Misra K Curcuminoids as Inhibitors of Thioredoxin Reductase: A Receptor Based Pharmacophore and QSAR Study The 6th World Cancer Congress during 22-23 May 2013 Xi'an, China.
2. **Singh DV**. Application of bioinformatics in agriculture Dept of Biotechnology National Bioinformatics Infrastructure Facility CBSH GBPUA&T-2013 during 14th- 17th September, 2013.
3. K. Juli, **Singh D.V**. Design and development of herbicide against acetolactate synthase to address resistance problem Symposium on current trends in Life science Nov 2013 CUB, Patna.

Awards / Grants

1. DST Travel Grant (1.85 lack; SB/ITS-Y/00608/2013-2014) for World Cancer Congress held in Xian, China 2013.

Dr. Krishna Kumar Ojha

Participation in Conference/Seminar/Workshop/Symposia

1. Delivered a lecture on “Sequence Analysis” during two days hands-on training programme on Basic Bioinformatics during February 17-18th, 2014 at Central University of Bihar, Patna.
2. Attended workshop on NMR from structure determination to human behavior, December 26 to January 4, 2014 at SGPGI, Lucknow.

Dr. Anil Kumar

Participation in Conferences/Seminar/Symposia

1. Delivered a lecture for Two days hands-on training programme on “BASIC BIOINFORMATICS” during February 17-18, 2014 organised at Central University of Bihar, Patna. The topic of lecture was “Computational Approaches in Drug Discovery”.

4.2.2 Centre for Environmental Sciences

The Centre for Environmental Sciences is presently offering Master’s and Integrated MPhil-PhD programme in Environmental Science which revolves around multidisciplinary and integrated study of the earth, atmospheric, biological and chemical processes and their linkages with developmental perspectives for attaining a more sustainable environment. The focus includes to understand complex interactions between the different components of nature (between and beyond disciplinary boundaries), impact on food security and associated ecosystem services in the immediate and long-term perspectives, besides environmental monitoring and management.

Integrated MPhil-PhD Programme in Environmental Science

The Centre for Environmental Sciences has started Integrated MPhil-PhD Programme in January 2014. The programme has been designed to inculcate among the researchers an in-depth understanding of theoretical perspectives; the ability and competence to do independent quality research; and to develop a comprehensive knowledge of various sub-disciplines of environmental science to disseminate knowledge in the larger interest of both, the individual and the society.

The broad areas of research being offered are Biodiversity and conservation, Ecology and Evolutionary biology, Science of climate change, Biogeochemistry, Hydrogeochemistry, Fresh and marine aquatic ecosystems, Pollution monitoring and control, Ecotoxicology, Earth system modelling and processes.

M.Sc. Environmental Science

The two year (four semesters) Post Graduate Programme is designed to provide necessary knowledge and skills to postgraduate students, so that they can learn to analyse and assess environmental systems and problems; be able to propose sustainable solutions and contribute to the development of policies and strategies for environmental planning. The major thrusts of the programme are:

1. To study issues related to exploitation of natural resources, the impacts of human activities thereon and the implications of environmental degradation on human development.
2. Natural Processes in the Environment, which focus on the natural processes such as the hydrological, atmospheric, Biogeochemical, micro-biological and ecological processes.
3. The Human Dimension of Environmental Change: to understand the determinants of the growth of populations and economies, and how this growth results in demand for natural resources, leading to scarcity, pollution and risks for human health.
4. Analytical Tools in Environmental Science: basic tools for analysing environmental issues, such as data collection and analysis and modelling of air, water, soil and biological systems.

Environmental Science Laboratory

The Environmental Science laboratory houses UV-Vis Spectrophotometer, High Volume Sampler, Microscope, Cultures of Various Microbes, Phytoplankton, Zooplankton etc. the laboratory is equipped with facilities of studying different trophic levels in lacustrine and riverine food webs. Besides, state of the art facilities for Geochemical Analysis, Ion chromatograph, Atomic Adsorption Spectrophotometer (AAS),

Solvent extractor, GC, GCMS, Microwave digestion system, HPC facility, GIS software etc. are being added soon.

Faculty

1. Dr. Pradhan Parth Sarthi, PhD Meteorology, BHU (Varanasi), Associate Professor & Head
2. Dr. Ram Kumar, PhD Zoology, University of Delhi, Associate Professor
3. Dr. Rajesh K Ranjan, PhD Environmental Sciences, JNU (New Delhi), Assistant Professor
4. Dr. Prashant, PhD Environment Management, Vikram University, Assistant Professor
5. Dr. N L Devi, PhD Environmental Science, China Univ. of Geosciences (China), Assistant Professor
6. Dr. Namita Das Saha, PhD Environmental Science, Indian Agricultural Research Institute, Assistant Professor (on lien)

Publication and Participation in Academic Activities

Dr. Pradhan Parth Sarthi

Paper Published

1. **P. Parth Sarthi**, Anubha Agrawal & A. Rana, "Possible Future Changes in Cyclonic Storms (CSs) in Bay of Bengal (BoB) India under Warmer Climate", (International Journal of Climatology, June, 2014 Impact Factor: 3.398)
2. **P. Parth Sarthi**, Soumik Ghosh and Praveen Kumar, "Possible Future Projection of Indian Summer Monsoon Rainfall (ISMR) with the evaluation of model performance in Coupled Model Inter-comparison Project Phase 5 (CMIP5)", (International Journal of Global and Planetary Change, May, 2014, *Under Review*, Impact Factor: 3.707)

Participation in Conference / Seminar / Workshop / Symposia

1. Praveen Kumar, **P. Parth Sarthi** and Soumik Ghosh, "Future Projection of Indian Summer Monsoon Rainfall (ISMR) over the State Bihar, India", paper presentation in National Conference on Climate Change Social Vulnerability Assessment held during 19 – 20 February 2014 at Department of Forestry & Natural Resources, Hemawati Nandan Bahuguna Garhwal University (A Central University, Srinagar – Garhwal Srinagar-Garhwal)
2. Soumik Ghosh, **P. Parth Sarthi** and Praveen Kumar, "Indian Summer Monsoon Rainfall (ISMR) in Historical and Picontrol experiment in Coupled Model Inter-comparison Project Phase 5 (CMIP5) data", paper presentation in National Conference on Climate Change Social Vulnerability Assessment held during 19 – 20 February 2014 at Department of Forestry & Natural Resources, Hemawati Nandan Bahuguna Garhwal University (A Central University, Srinagar – Garhwal Srinagar-Garhwal)
3. Given invited lecture on "Modelling of Climate Change", Department of Science and Technology (Govt of India) funded SERC School on Science of Climate Change at Doon University, Dehradun in August 2013.
4. Given invited lecture on "Projection of Indian Summer Monsoon Rainfall", Department of Science and Technology (Govt of India) funded SERC School on Science of Climate Change, at Doon University, Dehradun in August 2013.
5. Given invited lecture on "Climate Change Impact on Monsoon Rainfall and Snow, Cyclonic Storms and Water Resources in India", 5th Bihar Science Conference, during 16-18 November, 2013 at Arvind Mahila College, Patna, Bihar

6. Given invited lecture on "Science of Weather and Climate" a refresher course in Environmental Science on "Sustainable Environment: A Healthy Life Support System", during 20-22 December, 2013 at Department of Botany, Patna Science College, Patna University, Patna.

Funded Research Project

1. "Modelling Study of Flood and Drought in Eastern Gangatic Plain in India" funded by IBM India under Smarter Planet project.

Dr. Ram Kumar

Papers Published

1. R. Dhanker, **Ram Kumar**, J.-S. Hwang (2013). How effective are Mesocyclops aspericornis (Copepoda: Cyclopoida) in controlling mosquito immatures in the environment with an application of phytochemicals? *Hydrobiologia*. 716:147–162; DOI 10.1007/s10750-013-1559-9
2. S.P. Roy, Richa Roy, A.K. Prabhakar, A. Pandey, **Ram Kumar** (2013). Longitudinal and temporal patterns of zooplankton distribution and community structure in the Vikramshila Gangetic Dolphin Sanctuary, Bihar, India, *Aquatic Ecosystem Health & Management*, 16:4, 374-384; <http://dx.doi.org/10.1080/14634988.2013.857564>
3. R. Dhanker, **Ram Kumar**, Li-Chun Tseng and Jiang-Shiou Hwang (2013). Ciliate (*Euplotes* sp.) predation by *Pseudodiaptomus annandalei* (Copepoda: Calanoida) and the effects of mono-algal and pluri-algal diets. *Zoological Studies* 2013, 52:34 ; <http://www.zoologicalstudies.com/content/52/1/34>.
4. **Ram Kumar**, H. Neseemann, G. Sharma, L.-C. Tseng, A. K. Prabhakar & S. P. Roy (2013). Community structure of macrobenthic invertebrates in the River Ganga in Bihar, India. *Aquatic Ecosystem Health & Management*, 16:4, 385-394; <http://dx.doi.org/10.1080/14634988.2013.846200>
5. L.-C. Tseng , H.-U Dahms , **Ram Kumar** , Q.-C. Chen & J.-S. Hwang (2013): Autumn community structure in the shallow mixed layer of the subtropical South China Sea reveals a peculiar copepod and zooplankton assemblage, *Journal of Natural History*, 47:5-12, 667-683; <http://dx.doi.org/10.1080/00222933.2012.716866>
6. C. H. Wu, L. C. Tseng, **Ram Kumar**, T. Kao, G. -S. Lian, J. S. Hwang (In press). Six years of observations of copepod community structure in a mixed semi-enclosed embayment in the tropical West Pacific. *Marine Biology*
7. Raunak Dhanker, Juan Carlos Molinero, **Ram Kumar**, Li-Chun Tseng, Adriana Ianora and Jiang-Shiou Hwang (*In press*). Responses of the estuarine copepod *Pseudodiaptomus annandalei* to polyunsaturated aldehydes: Reproduction, survival and postembryonic development, *Harmful Algae*.

Participation in Conference/Seminar/Workshop/Symposia

1. Acted as Member, National Advisory Committee of the 20th ISCB International Conference (ISCBC- 2014) on "Chemistry and Medicinal Plants in Translational Medicine for *Healthcare*" organized by Department of Chemistry, University of Delhi and Indian Society of Chemist and Biologists (ISCB, Lucknow) at University of Delhi during 1 - 4 March, 2014.

2. Organized National Conference on “Aquatic Ecosystems and their Management: Recent trends and future perspectives, Centre for Environmental Sciences” during 21-23 March 2014, Central University of Bihar, BIT Campus Patna.
3. Attended and acted as Resource person, during faculty development program held in BIT Patna Campus; July 2013.
4. Acted as Resource person, during Entrepreneurship development program held in BIT Patna Campus; September 2013.
5. Acted as resource person in Refresher course organized by the UGC-Academic Staff College, Ranchi University, on ‘Environmental Studies’ (Thrust Area : Conservation of Natural Resources) on 10-11 March,2014.
6. Acted as resource person in Refresher course organized by the UGC-Academic Staff College, Patna University, on ‘Environmental Studies’ on 19th December, 2013.
7. Presented invited paper and chaired a session in National Seminar on Aquatic Toxicology, Biodiversity and Aquaculture November 15-17, 2013, jointly organized by Central Institute of Freshwater Aquaculture, Bhubaneswar, Department of Zoology and Aquaculture Acharya Nagarjuna University & Society for Advancements in Biological Sciences Bangalore
8. Attended Workshop on Professional Development in Lifelong Learning & Extension in Higher Education: Skill Enhancement & Employability in SAARC Countries. On 7th – 8th September, 2013, organized by Department of Adult, Continuing Education & Extension (Faculty of Social Sciences) University of Delhi, Delhi – 110007.
9. Attended 20th ISCB International Conference (ISCBC- 2014); 20th ISCB International Conference (ISCBC- 2014) on “Chemistry and Medicinal Plants in Translational Medicine for Healthcare” organized by Department of Chemistry, University of Delhi and Indian Society of Chemist and Biologists (ISCB, Lucknow) at University of Delhi on 1st to 4th March, 2014.
10. R. Dhanker, L. C. Tseng, **Ram Kumar**, J. S. Hwang, (2013) Combined Effects of Temperature–Salinity on Demographic Parameters of *Apocyclops royi* (Copepoda: Cyclopoida). 3rd International Congress on Global Warming on Biodiversity of Insects: Management and Conservation Strategies. Bharathiar University Coimbatore Tamil Nadu, India, November 26-28, 2013.
11. **Ram Kumar** (2014). Spatial distribution and colonization macrobenthic invertebrate community as a function of microhabitat types: A time series study pp 38. National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.
12. Suman Kumari, **Ram Kumar** and A. P. Sharma, (2014); Responses of rotifer community structure to temperature: a short term field investigations; 78; National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014
13. Amit Kumar Prasad¹ and **Ram Kumar** (2014), Municipal waste water treatment by “vertical sub surface flow constructed vermifilter” National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.
14. **Ram Kumar**, Raunak, Debadityo Sinha, Yasheshwar, Victor R. Alekseev (2014); Diversity of Quiescent stages in surficial sediments in the wetlands of Delhi pp 48 National Conference on

Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.

15. A. Malika, D. Prakash and **Ram Kumar** (2014); Effects of Acetamenop[hene (Paracetamol) on survival, reproductive potential, and quiescent egg production in *Asplanchna intermedia*, pp 78. National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.
16. D. Prakash, **Ram Kumar** and A. Malika, (2014): Spatial heterogeneity of planktonic microorganisms and mesozooplankton along Patna to Barh stretch of River Ganga in Bihar pp 80 National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.
17. R. Dhanker, **Ram Kumar**, J. S. Hwang, (2014) Reproductive disturbance in copepods by diatom aldehydes. National Conference on Aquatic Ecosystems and their Managements: Recent trends and future perspectives. Central University of Bihar, Bihar, India, March 21-23, 2014.

Editorial Activities

Nominated as Associate editor for the journal "Frontiers in Marine Science (Marine Pollution)"
http://www.frontiersin.org/Marine_Pollution/editorialboard?

Funded Research Projects

1. "Ecophysiological and biochemical studies on quiescence in selected Zooplankton" *Supported by SERB, Department of Science and Technology, Government of India, (SB/SO/ AS /029/2013).*

Collaborative Research projects

1. Cataloguing of rotifer diversity in wetlands of Bihar, in collaboration with *Central Inland Fisheries Research Institute, Barrackpore, Kolkata-700120.*
2. Cataloguing of macrobenthic invertebrate in polluted and unpolluted stretch of River Yamuna, in NCT of Delhi, in collaboration with Yamuna Biodiversity Park, University of Delhi, Delhi 110 007.

Dr. Rajesh Kumar Ranjan

Papers Published

1. **Ranjan RK**, Singh G, Routh J, Ramanathan AL. 2013. Trace metal fractionation in the Pichavaram mangrove- estuarine sediments in southeast India after the tsunami of 2004. *Environmental Monitoring and Assessment*, 185:8197–8213 (Springer, imp. factor: 1.436). (Citation: 02)
2. **Ranjan RK***, Ramanathan AL, Parthasarathy P, Kumar, A., 2013. Hydrochemical characteristics of groundwater in the plains of Phalgu River in Gaya, Bihar, India. *Arabian Journal of Geosciences*, 6:3257– 3267(Springer, imp. factor: 1.141). Citation: 04)

Participation in Conference / Seminar / Workshop / Symposia

1. UGC Academic Staff college Patna- Attended 65th Orientation Programme (23rd November to 20th December 2013), Department of Education, Patna University, Patna.
2. Acted as Resource Person "to develop the training package for laboratory assistants and teacher -in-charge of School laboratories" of Sikkim Government. 10th February to 14th

February, 2014 at North East Regional Institute of Education (NERIE), NCERT Umiam, Ri Bhoi-Meghalaya.

3. Organising secretary, National conference on “Aquatic Ecosystems and their Management: Recent trends and future perspective”(AEM 2014) Centre for Environmental Sciences; Central University of Bihar, Patna 21st March to 23rd March 2014.

Dr. Prashant

Papers Published

1. **Prashant**, S. K. Billore, J. K. Sharma, N. Singh and H. Ram (2013), Treatment of wastewater and restoration of aquatic systems through an eco-technology based constructed treatment wetlands – a successful experience in Central India, *Water Science & Technology*, 68.7, pp1566-1573.
2. **Prashant**, Praveen Prakash and Pankaj Kumar (2013), Primary study of medical waste management in hospitals of patna, In S. Suresh and K. Sudhakar ed. *Global scenario in environment and energy*, BSP BS Publication, ISBN: 978-81-7800-286-6.

Research Project

1. UGC Start Up grant Entitled “Pollution removal from wastewater by application of constructed wetlands treatment technology” Rs. 6 Lakhs.

Industrial Consultancy Project:

- **Company:** Cairn India Limited - Consultancy services for installation of constructed wetlands / reed bed for domestic sewage treatment at operation base Bhagyam, Barmer, Rajasthan. Rate of consultancy @8500/ day for a maximum of 15 days.

Dr. Ningombam Lithoingambi Devi

Papers Published

1. **Devi NL**, Yadav IC, Shihua Qi. 2014. Atmospheric polycyclic aromatic hydrocarbons (PAH) in Manipur of the Northeast India: monitoring on urban, rural and mountain sites. *Polycyclic Aromatic Compounds* 34: 12-343.
2. **Devi NL**, Chakraborty P, Qi Shihua, Gan Zhang. Selected organochlorine pesticides (OCPs) in surface soils from three major states from the northeastern part of India. *Environmental monitoring and assessment* 185 (8), 6667-6676
3. Yadav IC, **Devi NL**, Singh S. 2014. Spatial and Temporal Variation in Arsenic in the Groundwater of Upstream of Ganges River Basin, Nepal. *Environ. Earth Sci.* DOI: 10.1007/s12665-014-3480-6
4. Yadav IC, **Devi NL**, Mohan D, Shihua Qi, Singh S. 2014. Assessment of Groundwater Quality with Special Reference to Arsenic in Nawalparasi District, Nepal using Multivariate Statistical Techniques. *Environ. Earth Sci.* 72, 259-273.

Participation in Conference/Seminar/Workshop/Symposia

1. Attended faculty development programme on research methodology & SPSS during July 20-21, 2013 organized by Birla Institute of Technology Patna Campus.

The School of Social Sciences and Policy embodies cohesiveness of multiple disciplines that instantly seek their relevance in understanding and analysing human behaviour in an integrated framework. The school has four centres namely Centre for Development Studies, Centre for Economic Studies and Policy, Centre for Sociological Studies and Centre for Political studies. It continuously endeavours to blend its teaching engagement with empirical research. Academic programmes based on the emerging debates both in the theoretical and empirical planes in respective disciplines also see their engagement in a continuous search for building- up a new knowledge base relevant to the developing world particularly. For teaching, research and training, the School of Social Sciences and Policy looks forward to learn from the development experiences of the world at large. In the process, it does not exclude the local economy, society and polity. Its agenda and implementation of the same by way of organising Seminars, Workshops, and Development Dialogues embed the essence of the School.

4.3.1 Centre for Development Studies

The Centre for Development Studies was the first academic unit of this university since its very inception and hence offers a special thrust to its intellectual terrain. Its interdisciplinary nature makes it all the more exciting and versatile in a knowledge society like that of ours. Furthermore in 21st century India, Development Studies has emerged as a discipline incorporating gamut of changes in different frontiers like social-economic, political, cultural and human development as such. There are only a few institutions in India that train competent manpower required by national and international agencies engaged in the developmental sector. The demand for development professionals has been increasing with the expansion of the frontier of development interventions in the social sector. The Centre of Development Studies attempts to make unique contributions by training the budding agents for development and change, alongside preparing students who may opt for higher studies and look forward to a career in teaching profession.

Academic thrust and key activities of the Centre

The academic thrust of the Centre for Development Studies (CDS), Central University of Bihar (CUB), aims to explore the issues on development and underdevelopment. The Centre, at present, offers two core academic programmes:

- (a) Two-year Masters Programme;
- (b) Integrated MPhil-PhD Programme

These courses aim to disseminate and advance knowledge by providing instructional and research facilities; to take appropriate measures for promoting innovations in teaching-learning process and interdisciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development. They are encouraged to acquire skills through introspection and praxis while confronting issues in the real world. The students are trained in projects and research -- both theoretical and applied -- through contact hours with teachers in classroom and through field survey. Furthermore, the Centre organizes a series of internal seminars, public lectures and dialogues. It also furthers skill-enhancement of students and faculty up-gradation programmes through workshops like those on statistical analysis of data, qualitative inquiry, project management etc. Since 2011, the Centre has been organizing an annual National Conference titled Development Meet, wherein policy planners, academics, activists, civil society professionals, from across the country, deliberate and debate on a theme of contemporary relevance. Thus in

doing so, the students are encouraged to learn about the various facets of socio-economic-political and cultural development within an institutional paradigm.

Integrated MPhil-PhD Programme in Development Studies

The notable features of the Integrated MPhil-PhD Programme are: (a) its multi-disciplinary orientation in both course design and teaching plan; (b) its distinctiveness when compared to available courses within and outside the University and (c) its coherence as a programme of study with a policy-orientation. The MPhil programme is a three-semester programme of study from which students may upgrade on to the doctoral programme, provided they meet the minimum grade requirements of the University.

M.A. Development Studies

The Centre offers a two-year Masters Programme in Development Studies. It aims to disseminate and advance knowledge by providing instructional and research facilities; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people along with their intellectual, academic and cultural development.

Faculty

1. Prof. Debdas Banerjee, PhD Economics, Calcutta University, Professor
2. Ms. Anju Helen Bara, MPhil Planning and Development, IIT Bombay, Assistant Professor
3. Mr. Aditya Mohanty, MA Sociology, JNU (New Delhi), Assistant Professor
4. Dr. Firdaus Fatima Rizvi, PhD Economics, University of Allahabad, Assistant Professor

Publication and Participation in Academic Activities

Ms. Anju Helen Bara

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper titled, “Clash of Interest between “We” and “Others”: Understanding Indian State’s pursuit for Development and Modernity” in the 55th Annual Conference of Indian Political Science Association (IPSA) held in Hyderabad during 28-30 December, 2013.

Dr. Firdaus Fatima Rizvi

Paper published in journal

1. Pant, S. K, **Rizvi Firdaus F** and Pathak, D.C., ‘Inter-Regional Disparities in India: Threats and Challenges’, in *ACADEMECIA*, Volume 3, Issues 4, April 2013, published by South Asian Academic Research Journals, ISSN 2249-7137.

Participation in Conference/Seminar/Workshop/Symposia

1. National Workshop on Research Methodology, jointly organized by Indian Institute of Dalit Studies, New Delhi with the Centre for Social Exclusion and Inclusive Policy, National Law School, Bangalore, JNU Convention Centre during June 24-26, 2013.

Mr. Aditya Mohanty

Publication

1. Published an article entitled '*From Bhagidari to Mohalla Sabhas: When participation trumps governance!*' in the *Journal Economic and Political Weekly* Volume 49 No.14 (ISSN: 0012-9976)

Participation in Conference/Seminar/Workshop/Symposia

1. '*Seeing through the State: Ethnographic Vignettes from RWAs in Delhi*' in the National Conference on Politics & Governance 2013 held at India International Centre, New Delhi on 5 May 2013.

Awards / Grants

1. Conference Travel Grant by the Research Committee 21 (RC21) of the International Sociology Association, the *International Journal of Urban and Regional Research* (IJURR) and the Foundation for Urban and Regional Studies (FURS) to participate in the Third Summer School on *Comparative Urban Studies*, held at Humboldt University, Berlin from 17 August 2013 to 03 September 2013.

Activities Organised by the Centre

1. Organized '*Development Meet 2014*' on **Institutions, Growth and Development** during February 21-22, 2014, ICAR Patna complex, funded by ICSSR.

Placement of MA Development Studies students, Batch 2012-2014

Sl. No	Name of Student	Placement
1	Abhishek Dwivedi	Qualified UGC JRF and pursuing M.Phil in Sociology at South Asian University, New Delhi
2	Kanchan Lala	Pursuing M.Phil in Science Policy at Central University of Gujarat
3	Swarna Yadav	CARE INDIA
4	Viswesh Kumar	Aga Khan Rural Support Program
5	Md. K. Azam	IDF
6	Kumari Kundwa	IDF
7	Ravi Ranjan Kumar	Pursuing M.Phil at Central University of Gujarat

4.3.2 Centre for Economic Studies and Policy

The Centre for Economic Studies and Policy (CESP) looks at academic engagement with a difference. While the major focus is on teaching of basic principles of Economics, the Centre is in search of new epistemology both in theory and practice. It continues to focus on improving its course curriculum based on the evolving theoretical paradigms being witnessed in the field of Economics by different schools of thought that have ontological bearings. The diverse knowledge base in Economics and its ramifications on society and polity continue to be a primordial source of choice for new directions in research. The Centre nurtures creative impulses of both faculty and students and continuously provides forums for developing critiques of existing theories and practices only to create new space for the latter. While doing so, it contextualises emerging theoretical postulations at all levels including local, sub-regional, national and international. The Centre aspires and attracts students and teachers to the Centre from all over the country

and abroad to develop it as a unique centre of learning and develop collaboration with other institutions for teaching and research.

Objectives of the Centre

- To enlarge the scope for teaching of Economics as propounded by different schools of thought with an edge over both quantitative and qualitative techniques
- To conduct research in both theoretical and empirical planes
- To organise Seminar/Symposium/Dialogue/Workshop/Training Programmes.

Integrated MPhil-PhD Programme in Economics

The programme is conceived primarily with a view to train the students to develop their analytical minds required to explore new horizon of knowledge in the field of Economics. While deep understanding of economic phenomenon, not being independent of the society at large, is a necessity, course of this programme cares about its pedagogy that stimulates creative impulse of the students. The programme offers a large scope to the students to examine efficacy of the existing theoretical paradigms at the backdrop of the empirical research and develop a critique- a step forward to explore new areas.

M.A. Economics

The post graduate programme is designed to train the students on the expanding knowledge base in economics. Students are not only equipped with various techniques for evaluating development programmes and policies but also exposed to deeper understanding of several theoretical paradigms. While the programme endeavours to generate sound and effective interactive process, inclination to deepen the analytical mind of the students is constantly sought. What it visualizes is that the students who are given exposure to the historical process of change both in economic thought and practice are able to respond to any economic event either through pursuing research or professional carrier.

Faculty

1. Mr. Atish Kumar Dash, MPhil Applied Economics, JNU (New Delhi), Assistant Professor
2. Dr. Tophan Patra, PhD Economics, University of Hyderabad, Assistant Professor
3. Dr. Abodh Kumar Dash, PhD Economics, University of Mumbai, Assistant Professor

Publication and Participation in Academic Activities

Mr. Atish Kumar Dash

Participation in Conference/Seminar/Workshop/Symposia

1. Participated in the Roundtable on “Global Economic Outlook and Leading Economic Index for India” held on 27th September, 2013 at FICCI, New Delhi.
2. Acted as a Resource Person for the Capacity Development Programme on Research Methodology at Birla Institute of Technology, Patna Campus held during 8th Jan – 18th Jan 2014.
3. Acted as discussant of the session on “Social Capital and Human Capabilities”, Development Meet, Central University of Bihar, during February 21-22, 2014.

Dr. Tophan Patra

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper entitled '*Impact of Liberalisation and Globalisation on Growth of firms in Indian Automobile Industry*', at Golden Jubilee (50th) Annual Conference of the Indian Econometric Society (TIES) organised by Indira Gandhi Institute of Development Research (IGIDR), Mumbai during 22-24, December, 2013.

4.3.3 Centre for Political Studies

The Centre for Political Studies (CPS) strives to cover all aspects of the discipline in the context of Traditional, Modern and Post-Modern approaches. It emphatically identifies the new problem areas of society and tries to offer a solution through teaching and research. The Centre proposes to put Political Studies into practice to deconstruct the developmental issues related to the study of Political Science and International Relations. In its inter-disciplinary approach, the Centre provides an opportunity to combine both theory and practice. The Centre incorporates the academic programme in Political Science and International Relations to equip the students with the philosophical and theoretical perspectives in the Indian and Western traditions along with their practical applications. It continues to nurture motivation in students for the advancement of political analysis at all levels: regional, national and international.

Integrated MPhil-PhD Programme in Political Science & International Relations

The Centre of Political Studies, with the help of intensive academic programmes and extensive activities, is intended to equip students and researchers with theoretical understanding and practical orientation of Political Science and International Relations, and strives to become a Centre of excellence in the field of Research. With the help of inter-disciplinary approach the Centre incorporates the academic programme in the field to provide the students with in-depth understanding of the Western political tradition and to evolve Indian perspectives on the subject.

M.A. Political Science and International Relations

The two year (four semesters) Post Graduate Programme is designed to equip the students with the philosophical and theoretical perspectives in the Indian and Western traditions along with their practical applications. It also aims to impart critical thinking and methodological skills of academic and action research. The aim is to study a problem in the Indian, comparative, international, regional and local milieus. It also endeavours to inculcate among the students contextually appropriate sensibilities towards traditional, modern and postmodern approaches to the discipline of Political Science.

Faculty

1. Dr. Alok Kr. Gupta, PhD South Asian Studies Division, JNU (New Delhi), Associate Professor & Head
2. Dr. Sumit Kumar Pathak, PhD Political Science, BHU (Varanasi), Assistant Professor
3. Dr. Abhay Kumar, MPhil, PhD International Relations, JNU (New Delhi), Assistant Professor
4. Dr. Prashant Kumar, PhD Political Science, BHU (Varanasi), Assistant Professor
5. Dr. Pranav Kumar, MPhil, PhD International Studies, JNU (New Delhi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Alok Kumar Gupta

Published Chapters in Books

1. Sino-Sri Lanka Relations: Foreign Policy Challenges for India, published in a book titled India in Emerging Asia-Pacific, edited by Dr. Sudhir Singh (Pentagon Press, New Delhi 2014).
2. Tribal Rights and Folk-arts: Imperatives towards Policy Interventions in the Land of Birsa, published in a book titled Emancipation of Tribes & Human Rights in India edited by Dr. Sudhir Singh & Ruchi Ramesh, (Pentagon Press, New Delhi 2013) [Co-authored with Saurabh Bhaumik] [ISBN 978-81-8274-713-5]

Published Articles in Journals

1. “India’s Policy in the Neighborhood: Miscalculations and Potentials for redefining its role in the emerging World Order”, in *World Focus*, September 2014, [ISSN 2230-8458], US Library of Congress No.: 80910345, pp. 35-42.
2. “Recent Political Development in Nepal: Foreign Policy Challenges for India”, in *Politico*, Bi-annual, Vol-1 No-1, 2013. [ISSN 2322-0686], pp.1-12.
3. “Sri Lanka and Maldives: New Pivots of Chinese Geopolitics in South Asia”, in *Politico*, Bi-annual, Vol-2 No-1, 2013. [ISSN 2322-0686], pp.1-12.
4. “India and Crisis of Legitimacy in Bangladesh”, in *Third Concept*, March 2014 [ISSN-0970-7247], pp.17-21.
5. “Focus on Second Constituent Assembly of Nepal”, in *Third Concept*, January 2014 [ISSN-0970-7247], pp.10-14.
6. “Indo-Bangladesh Land-Swap Deal: An Overview”, in *Third Concept*, October 2013 [ISSN-0970-7247], pp.10-14.

Published Article on Think Tank Website

1. “Bangladesh Post Elections 2014: India’s Challenges and Options” Article No. 4266, 20 January 2014, www.ipcs.org [Institute of Peace and Conflict Studies]

Published Article in Newspaper

1. Bhartiya Rajniti ki Nai Karwat”, *Lokmat Samachar*, February 17, 2014, pg.4.

Participation in Conference / Seminar / Workshop / Symposia

1. Participated in the 55th Annual Conference of Indian Political Science Association held at Hyderabad during December 28-30, 2013 and presented a paper on “India’s Foreign Policy Miscalculations: Potentials for Redefining its Role in Emerging World Order” organized by Indian Political Science Association (IPSA).
2. Participated in One-Day Round Table Conference on “Naxalism, Development and Crisis of Governance” organized by Center for Human Rights a Conflict Management at Central University of Jharkhand on March 26, 2014.
3. Chaired one Session on “Social Capital and Human Capabilities” in Development Meet—2014 organized during February 21-22, 2014 by Centre for Development Studies (CDS) at Central University of Bihar (Patna).

Dr. Prashant Kumar

Published Chapters in Books

1. Published a chapter titled *Federalism in Nepal : Madheshi Perspective* in Anjoo Sharan Upadhyaya and Afreen Khan(ed) *State and Society in Nepal*; Palm Leaf Publications, New Delhi, pp-66-75, 2013

Published Articles in Journals

1. Published an article jointly with Bagisha Suman titled “Realist Views on the Realities of the Post-Cold War International System” in the International Journal, *Peaceworks: An Interdisciplinary Journal*, ISSN no. 2320-1750, Volume 3, no. 1. 2013, pp.86-95
2. Published an article titled “Rwandan Conflict and the Process of Identity Formation” in the International Journal, *Peaceworks: An Interdisciplinary Journal*, ISSN no. 2320-1750, Volume 3, no. 1. 2013, pp.55-63
3. Published an article jointly with Bagisha Suman titled “Maoist Politics in Nepal: Ramifications for India” in the International Journal, *Vaichariki*, ISSN no. 2249-8907, vol. 3, no.4, year 2014.

Participation in Conference/Seminar/Workshop/Symposia

1. Delivered a lecture on ‘Changing Dynamics of Indian Politics: Challenges and Prospects’ as part of the Weekly Seminar Series, CUB, February 05, 2014
2. Presented a paper titled “Peace as DoubleSpeak?: Theory & Practice of Gandhian Techniques of Conflict Resolution with Selective Case Studies” in a three day National Seminar on the theme “Gandhi, Peace, Social Harmony and Conflict Prevention and Resolution” organized by the Centre for Conflict Resolution and Social Harmony, Central University of Bihar in collaboration with Centre for Gandhian Studies, GITAM University, Vishakhapatnam February 24-26, 2014.

Dr. Pranav Kumar

Published Articles in Journals

1. **Kumar, Pranav** (2013), “India’s Relationship with Africa: Underestimated and Underachieved,” *The Journal of Interdisciplinary Policy Research and Action*, pp.72-73. Vol. 7, Issue 1-2, Jan-June 2013, pp. 62-71.
2. **Kumar, Pranav** (2013), “Economic Conditions in Mozambique,” *Diplomatist*, vol.I, Issue 3, June 2013, pp 72-73

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper entitled “Asian Maritime Security Constellation and India” in a National Seminar on *Dynamics of Geopolitics and National Security in Asia* organized by Department of Civics and Politics, University of Mumbai during 3- 4 February 2014
2. Presented a paper entitled, “The Churning of Eastern Africa’s Maritime Sphere: Opportunities and Challenges for India” in an International Conventions on *Re-Imaging Global Order: Perspectives from the of Global South* organized by School of International Studies, Jawaharlal Nehru University, New Delhi, in collaboration with six other Universities and Institution during 10-12 December 2013.

Lectures delivered by Faculty members of the Centre

1. Dr. Alok Kumar Gupta delivered a Lecture on Political Scenario in Bangladesh: Implications for India” on January 22, 2014as part of Weekly Seminar Series.

2. Dr. Prashant Kumar delivered a Lecture on “Changing dynamic of Indian Politics: Challenges and Prospects” on February 5, 2014 as part of Weekly Seminar Series
3. Dr. Pranav Kumar delivered a Lecture on “Emerging Geo-politics of Indian Ocean: Imperatives for India” on February 19, 2014 as part of Weekly Seminar Series.

4.3.4 Centre for Sociological Studies

Centre for Sociological Studies (CSS) has been established in 2012 under the aegis of School of Social Sciences and Policy at Central University of Bihar (CUB). The Objectives of the Centre are to engage in teaching as well as in research on theoretical, methodological and applied understanding emphasizing on inter-disciplinary approach. As per the mandate of the CUB, the Centre seeks to explore various issues and problems related to the socio-cultural understanding in the context of national development for knowledge generation. Apart from teaching courses in Sociology, the Centre will accentuate on training students in social sciences methodology and the techniques of social research in both qualitative and quantitative aspects. The Centre encourages students in terms of learning and understanding of the courses through active participation in and outside classroom. Apart from the classroom teaching, students will be evaluated continuously on their active engagement through tutorial, book review, term paper/assignment, presentation, seminar, workshop, etc.

M.A. Sociology

The two year (four semesters) Post Graduate Programme is designed to equip the students with knowledge and skill in the field of Sociology. The courses have been developed consistent with the rapid transformations the world is undergoing in the process of globalisation. It is imperative that we comprehend these changes and development by a theoretical grasp of phenomena and by studying them with some methodological maturity. It primarily includes three aspects of sociological studies - Theory and Social Thought; Methods of Social Research; and Dimensions of Social Life. Interdisciplinary orientation is reflected in the structure as well as in the contents of the courses offered at M.A. level.

Faculty

1. Dr. Jitendra Ram, MPhil, PhD Sociology, JNU (New Delhi), Assistant Professor
2. Dr. Haresh Narayan Pandey, MPhil, PhD Sociology, JNU (New Delhi), Assistant Professor
3. Dr. Ambrish Gautam, PhD Sociology, Ranchi University (Ranchi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Jitendra Ram

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper entitled “ Social Exclusion and Status Formation among Dalits in Bihar” on Dalit Studies: Continuity and Change organised by Dr. Ambedkar Chair, CSSS/SSS, JNU, New Delhi on 20-21 March 2014.

Published Articles in Journals

1. Submitted an article for Indian Journal of Dalit and Tribal Studies on the topic “Understanding Caste Hierarchy and Dalits in Bihar” on 25th March 2014.

Dr. Haresh Narayan Pandey

Published Book

1. A Book entitled “Globalisation and Identity” has been accepted for publication by Rawat Publications, New Delhi in March, 2014.

Participation in Conference/Seminar/Workshop/Symposia

1. A paper entitled “ Public Sphere and Globalisation” has been presented in 39th ISS National Conference on theme “ Inequality, Social Justice and Empowerment” organised by Department of Sociology, Karnataka State Open University, Mysore during 27th-29th December, 2013.
2. A paper entitled “Globalisation, Democracy and Democratic Space” has been presented in an International Conference on theme “Social Institutions: Challenges and Solution” organised by Department of Sociology, Mahatma Gandhi Kashi Vidyapith, Varanasi during 18th – 19th January, 2014.

Lectures delivered by Faculty members of the Centre

1. Dr. Jitendra Ram delivered a Lecture on “Social Exclusion and Status Formation among Dalits” under Weekly Seminar Series on 12th February, 2014 at Gaya Campus.
2. Dr. Haresh N Pandey delivered a Lecture on “Film and Tradition in India” in a Two Days Seminar on theme 100 Years of Indian Cinema, organised by Centre for Foreign Languages on 29th March, 2014, at Conference Hall, Gaya Campus.
3. Dr. Ambrish Gautam delivered a Lecture on “Indian Cinema and Social change In India” in a Two-Days Seminar on theme 100 Years of Indian Cinema, organised by Centre for Foreign Languages on 29th March, 2014, at Conference Hall, Gaya Campus.

4.4 School of Human Sciences

The School of Human Sciences aims to study human beings as a social, cultural and biological species in the context of their experiences, activities, constructs and artifacts. The Human nature is not discipline bound and therefore the School emphasizes interdisciplinary approach to understand it. The school has a mission to pursue quality education and research for greater understanding of human nature and challenges faced by humanity. Disciplines like anthropology, psychology, social work and other social sciences interactively may engage in research leading to knowledge system that serves the development of mankind. The objective of the school is to create advance scientific knowledge in various human sciences through research. The Centre for Psychological Sciences is established under the School of Human Sciences.

4.4.1 Centre for Psychological Sciences

With a vision to spread and create world class knowledge in the field of psychology, the Centre for Psychological Sciences (CPSYS) recognizes the immense potential of psychology, and its utility in improving quality of life of individuals and society. The Mission of the Centre is to educate and train psychologists who can serve the humanity. It is presently offering Master’s programme in Psychology with specialization in Social Psychology, Organizational Behaviour, Clinical Psychology and Counselling Psychology.

M.A. Psychology

The two year (four semesters) Post Graduate Programme is to impart quality education and training for research and practice with sound base in theories, methodology and psychological skills. The objective of the programme is to prepare students for a professional career in academics with equal emphasis on teaching and research and also on practice as psychologist. The course work provides advanced knowledge covering different areas of psychology. A student admitted to the programme will be required to complete 74 Credits of course work, lab work, dissertation, field work, internship etc. as per the requirement of specialization. Students are encouraged to take up internship, field work during vacation/semester break period. The programme seeks to enable students to develop competence in one of the four specialization areas namely, Counselling Psychology, Organizational Behaviour, Social Psychology, and Clinical Psychology.

Psychology Laboratory

The Psychology laboratory under the Centre for Psychological Sciences is established with the objectives to explain the various psychological phenomena and train students on practical aspects of psychological theories and models. Presently laboratory provides three kinds of facilities conducting experiments, psychological testing and qualitative research. The laboratory enables students to carryout computer based experiments and social experiments. The lab also contains numerous psychological tests. These tests include personality tests, intelligence tests, neuropsychological tests and many other important scales. The quantitative and qualitative research is important areas of the psychology lab. The laboratory has the facility of computers and audio-video modes for data collection and its interpretation. The psychology lab is equipped with software such as SPSS, R and QDA to carryout analysis of the research.

Faculty

1. Dr. Narsingh Kumar, PhD Organisational Behaviour, IIT Guwahati, Assistant Professor
2. Ms. Das Ambika Bharti, MA Psychology, BHU (Varanasi), Assistant Professor
3. Dr. Manglesh Kumar Manglam, MPhil, PhD Clinical Psychology, Central Institute of Psychiatry, (Ranchi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Narsingh Kumar

Participation in Conference / Seminar / Workshop / Symposia

1. Delivered an open talk on "Behaviour and Climate Change" on 26th March, 2014 under weekly seminar series, Cluster II (School of Social Sciences & Policy and School of Human Sciences).
2. Delivered an open lecture on Managing Stress at the World Mental Health Day organized by the Centre for Psychological Sciences, Central University of Bihar on 10th October, 2013.

Ms. Das Ambika Bharti

Participation in Conference / Seminar / Workshop / Symposia

1. Kumari, P.& **Bharti, D. A.** (December, 2013). "A differential personality profile of alcohol abusers: Paper Presented at XXIII NAOP Annual Conference held at Department of Humanities and Social Sciences, National Institute of Technology, Rourkela during December13-15, 2013.
2. Attended S. P. Sinha Workshop on "Discovering statistics by MS-Excell and SPSS" organised by DST-Centre for Interdisciplinary Mathematical Sciences, BHU, Varanasi during May 27 - June 4, 2013.

3. Participated in Basic training part-I on Eye Movement Desensitization and Reprocessing (EMDR), from EMDR Association of India with support from Humanitarian Assistance Programme (HAP, USA) in collaboration with Samvedna: Centre for neuropsychological rehabilitation & mental well-being during August 24-26, 2013.
4. Completed 65th Orientation programme at UGC Academic Staff College, Patna University, Patna during November 23 - December 20, 2013.

Workshop organized/conducted

1. Organized a one day workshop on “Behavioural skills for effective living” for the post graduate students of Central University of Bihar on March 08, 2014.

Lecture

1. Delivered a lecture on “Emotional growth with assertiveness” at the World Mental Health Day organized by the Centre for Psychological Sciences, Central University of Bihar on October 10, 2013.

Dr. Manglesh Kumar Manglam

Papers Published

1. **Manglam M.K.**, Sinha V.K., Praharaj S.K., Bhattacharjee D., and Das A. (2013). Personality correlates of accident-proneness in auto-rickshaw drivers in India. *International Journal of Occupational Safety and Ergonomics* 19(2), p. 159-165
2. **Manglam, M. K.**, & Das, A. (2013). Verbal learning and memory and psychopathology in schizophrenia. *Asian Journal of Psychiatry*, 6 (5), p. 417-420.

Participation in Conference/Seminar/Workshop/Symposia

1. Rani, A., & **Manglam, M. K.** (2013). Depression, anxiety, stress and suicidal ideas in adolescent victims of human trafficking and sexual abuse in a sheltered home at Ranchi, India. In XXIIIth Annual Convention of National Academy of Psychology at National Institute of Technology, Rourkela during 13-15th December, 2013.
2. **Manglam, M. K.**, Sinha, V. K., and Das, A. (2014). Personality characteristics of auto-rickshaw drivers of Ranchi, India. In 40th National Annual Conference of Indian Association of Clinical Psychologists, at SRM Medical College, Kattankulathur, Tamilnadu, on 28th February to 2nd March, 2014.

4.5 School of Languages and Literature

Human civilization evolves through innumerable phases of language evolutions. Knowledge too in its resurgent march unfailingly walks hand in hand with languages to streamline learning. Creative endeavours representing human behaviour mould languages to shape literature. As signifier of lingual heritage, literature showcases cultural diversities to promote learning through textual interpretations. The inception of the School of Languages and Literature is grounded in the idea that the ever flowing stream called literature meanders around life to mirror multiple perspectives irrespective of language differences. Interdisciplinary approach as its prime thrust nurtures confidence in learners pertaining to growth in communication and representation skills. The School in its curriculum places 'Translation Studies' as a common academic concern with relative

cultural dimension in context of pluralism in society. At present, the School of Languages and Literature stands as the academic edifice with its Centre for Indian Languages (CIL) and the Centre for Foreign Languages (CFL). The Centre for Indian Languages with its Master programme in Hindi plans to develop programmes for various other Indian languages. As part of its academic endeavours, the Centre for Foreign Languages aims to provide academic programme in Asian, European, African and other languages. The School in its prime objective remains open to incorporate various languages national and international for study and research, as it motivates minds towards the understanding of cultures, contextual correlations and comparative analysis of literature worldwide.

4.5.1 Centre for Foreign Languages

The Centre for Foreign Languages aims to create awareness amongst students to have inter-lingual approach for the proficient understanding of Languages and Literatures irrespective of Language boundaries and Region barriers. In order to continue to be successful with learning tasks in multiple academic relevance students are trained to remain aware of the strategies that can lead to the inculcation of skilful presentation and representation of ideas in oral and written modes. The objective as its prime prerogative simultaneously incorporates strategies for language proficiency as a major tool for cognitive development in varied contexts. Techno-sound strategies have been installed to meet the cotemporary requirements of challenging language tasks as one of the models for language learning. The Centre in its major focus streamlines the methodologies for teaching English as one of the foreign languages both in theory and in practice. The course aims at teaching Language and Literature in English representing historical scope, cultural diversity and various genres in socio-political linguistic contexts. Apart from focusing on British, European, Indian and American Literatures written in English, the course includes new Literatures in English or in its translated versions. It also incorporates the theoretical base work of Literature which goes in the name of theories and criticism.

M.A. English

The two-year (four semesters) Post Graduate Programme is designed to meet the requirements of Language and Literature studies. As a part of language study students will be introduced to the English Language, Linguistic, English in India and English Language teaching etc. and as a part of literary studies a broad stream of canonical and non-canonical texts will be studied in what is generally known as English Studies. Students will be encouraged to study the major traditions spanning the late 16th till 20th century and beyond. The emphasis will not be on a descriptive approach based on conventional periodization, but to look critically at literary development and movements across time and space. Students will develop imaginative skills and critical intelligence while dealing with texts embedded in social and cultural contexts.

Faculty

1. Mr. Suresh Kurapati, PhD English, University of Hyderabad, Assistant Professor
2. Ms. Beauty Yadav, M.Phil, Indian English Dramatics, Patna University, Assistant Professor
3. Mr. Ashish Kumar Pathak, M.A English, University of Allahabad, Assistant Professor
4. Ms Richa, M. A English, Patna University, Assistant Professor
5. Dr. Devaditya Bhattacharya, PhD English, JNU (New Delhi), Assistant Professor

Publication and Participation in Academic Activities

Ms Beauty Yadav

Participation in Conference / Seminar / Workshop / Symposia

1. Attended a workshop on Teacher's Support Programme for Speaking Examiners conducted and Organised by Cambridge English Language Assessment unit of University of Cambridge UK at Birla Institute of Technology, Patna Campus Patna during on February 1-2, 2014.

Mr. Ashish Kumar Pathak

Submitted his doctoral thesis entitled "T. S. Eliot's Later Phase: A Critical Evaluation" in the Department of English, University of Allahabad on 26th August, 2013.

Participation in Conference/Seminar/Workshop/Symposia

1. Participated and contributed as a Resource Person in the National Workshop on Question Repository (English) held at Gandhi Bhavan, VMOU, Kota during January 23-25, 2014.

Lectures

1. Delivered a lecture on Freud and Literature at the Gaya campus under the aegis of Weekly Seminar series on 18th November, 2013.
2. Delivered Repository lectures at EMPC Studio, VMOU, Kota in the discipline of English on two topics: (i) *Plato and Literature* on January 24, 2014 & (ii) *Derrida and Deconstruction* on January 25, 2014.
3. Delivered a lecture as part of the Panel Discussion on '*Indian Cinema: Histories, Traditions and Legacies*' in the Seminar-cum-Film Festival commemorating Hundred Years of Indian Cinema at CUB Gaya Campus during March 28-30, 2014.

Ms. Richa

Submitted her doctoral thesis entitled "Gender and Ecology in the Novels of Amitav Ghosh, Arundhati Roy and Kiran Desai" in the Department of English, Banaras Hindu University on 3rd March, 2014

Papers Published

1. Published a paper on 'Ecotheology and the notion of Multiculturalism in Amitav Ghosh's *The Hungry Tide* and *Sea of Poppies*' in Indian English Novel of the New Millennium, Prabhat K. Singh(editor), Cambridge Scholar Press, 978-1-4438-4951-7
2. Published a paper on 'Portrayal of Ecology in *The God of Small Things* and *The Inheritance of Loss*' in The Literary Pearls, An Annual International Refereed Research Journal of Language and Literature bearing ISSN 2319-8001
3. Published a paper on 'Reinforcing Patriarchy: Interpreting Sights of Violence' in New Fiction Journal (A refereed Journal) edited by Jaydeep Sarangi in summer 2014 .

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper entitled 'The Circle of Reason and The Calcutta Chromosome: A Critique of Eurocentric Anthropocentrism' in an international seminar on Reading/Understanding Fiction in Contemporary Times held during March 5-6, 2014 at Banaras Hindu University.

Lecture

1. Delivered a lecture as part of the Panel Discussion on '*The Item Number: Whose Voices, Whose Words?*' in the Seminar-cum-Film Festival commemorating Hundred Years of Indian Cinema at CUB Gaya Campus during March 28-30, 2014.

4.5.2 भारतीय भाषा केन्द्र

भारतीय भाषा केन्द्र भाषा और साहित्य के अध्ययन-अध्यापन के साथ विद्यार्थियों में उच्चस्तरीय शोध-अभिरुचि विकसित करने के लिए प्रतिबद्ध है। यह भाषा और साहित्य के माध्यम से भारतीय समाज की बहुआयामी सांस्कृतिक विविधताओं का अध्ययन करता है। यह साहित्य और समाज की महान परंपराओं एवं विरासत को अक्षुण्ण रखते हुए रचनाशीलता तथा ज्ञान के नए अनुशासनों के निर्माण एवं उनमें परस्पर संवाद की ओर उन्मुख है। इसके साथ केन्द्र बदलते वैश्विक परिदृश्य में नई तकनीक एवं संचार की दिशा में अग्रसर होते हुए भारतीय भाषाओं को रोजगारपरक बनाने के लिए भी प्रयासरत है।

भविष्य की योजनाएँ :

- शोध पत्रिका का प्रकाशन
- विभागीय ब्लॉग का निर्माण

एम.फिल-पीएच.डी. (हिन्दी) पाठ्यक्रम

मानव सभ्यता का इतिहास उसकी अनुसंधान वृत्ति का इतिहास है। हमारी सांस्कृतिक उन्नति का रहस्य शोध में निहित है। शोध नये सत्यों के अन्वेषण द्वारा अज्ञान के क्षेत्रों को लुप्त कर देता है और वे सत्य हमें कार्य करने की उत्कृष्टतर विधियाँ और श्रेष्ठ परिणाम प्रदान करने हैं। इस प्रकार समाज में शोध का महत्व असंदिग्ध है।

वर्तमान में संचालित एम.फिल.पीएच.डी. पाठ्यक्रम हिन्दी में शोध एवं अनुसंधान को नयी दिशा और तेवर देने के लिए कृत संकल्पित है। शोधार्थियों में गंभीर शोध के प्रति आकर्षण उत्पन्न करना तथा हिन्दी के समक्ष शोध संबंधी चुनौतियों का सामना करने की दक्षता प्रदान करना, इस पाठ्यक्रम का मुख्य ध्येय है।

ज्ञान के विस्तार और विशेषज्ञता प्राप्ति की दृष्टि से यह पाठ्यक्रम शोधार्थियों के लिए अत्यंत उपयोगी है। यह पाठ्यक्रम शिक्षक और शोधार्थी के अन्तःसंबंध, उनकी परस्पर-संदर्भित स्वायत्तता और अंतरानुशासनात्मकता के साथ विशेषज्ञता पर जोर देता है। इस पाठ्यक्रम में अनिवार्य कोर्स के साथ-साथ कई वैकल्पिक कोर्स की व्यवस्था की गई है, जिससे शोधार्थी अपनी अभिरुचि को प्राथमिकता दे सकते हैं। पूरा पाठ्यक्रम यूजीसी के नवीन शोध एक्ट 2009 के अंतर्गत एक-वर्षीय (दो सत्र) अनिवार्य कोर्स वर्क के साथ संयुक्त है।

एम.ए. हिन्दी पाठ्यक्रम

वर्तमान में संचालित द्विवर्षीय (चार सेमेस्टर) स्नातकोत्तर हिन्दी पाठ्यक्रम हिन्दी भाषा और साहित्य में नए एवं मौलिक शोध में रुचि रखनेवालों के साथ-साथ उनके लिए भी उपयोगी है जो अनुवाद, सर्जनात्मक लेखन, अखबार, टेलीविजन, सिनेमा और नए मीडिया में अपनी प्रतिभा का प्रयोग करना चाहते हैं।

यह पाठ्यक्रम अध्यापक और विद्यार्थी के अंतःसंबंध, उनकी परस्पर-संदर्भित स्वायत्तता और अंतरानुशासनात्मकता के साथ विशेषज्ञता पर जोर देता है। इसलिए इस पाठ्यक्रम में अनिवार्य कोर्स के साथ वैकल्पिक विषयों के अध्ययन-अध्यापन का भी प्रावधान किया गया है। इसका उद्देश्य मौखिक एवं लिखित भाषिक दक्षता और विश्लेषण-क्षमता विकसित करने के साथ-साथ हिन्दी साहित्य को हिन्दीतर भारतीय साहित्य, विश्व साहित्य तथा ज्ञान के विभिन्न अनुशासनों के परिप्रेक्ष्य में समझना है। इस पाठ्यक्रम की सहायता से साहित्यास्वाद में विविधता और समृद्धि के साथ आलोचनात्मक विवेक का प्रयोग विश्वासपूर्वक किया जा सकेगा।

संकाय सदस्य

1. डा० कमलानंद झा, सहायक प्राध्यापक, पी०एच०डी हिन्दी (जवाहरलाल नेहरू विश्वविद्यालय)
2. डा० योगेश प्रताप शेखर, सहायक प्राध्यापक, पी०एच०डी हिन्दी (पटना विश्वविद्यालय, बिहार)
3. डा० कर्मानन्द आर्य, सहायक प्राध्यापक, पी०एच०डी हिन्दी (गुरुकुल कांगड़ी विश्वविद्यालय, हरिद्वार)
4. श्री शान्ति भूषण, सहायक प्राध्यापक, एम०ए० हिन्दी (जवाहरलाल नेहरू विश्वविद्यालय)
5. श्री अनुज लुगुन, सहायक प्राध्यापक, एम.ए. हिन्दी (काशी हिंदू विश्वविद्यालय, वाराणसी)

डा. कमलानंद झा

आलेख/समीक्षाएँ

1. अम्बेडकर विश्वविद्यालय, दिल्ली द्वारा आयोजित दो दिवसीय अंतरराष्ट्रीय संगोष्ठी में 'प्रवासी हिंदी साहित्य : उत्पीड़ित अस्मिताओं का संसार' विषय पर आलेख-पाठ, 21-22 जनवरी, 2014

डा. योगेश प्रताप शेखर

संगोष्ठी सहभागिता

1. राष्ट्रीय प्रौद्योगिकी संस्थान, पटना द्वारा आयोजित एवं मानव संसाधन विकास मंत्रालय द्वारा संपोषित 6-7 जून 2013 को दो दिवसीय कार्यशाला में भागीदारी ।
2. काशी हिन्दू विश्वविद्यालय द्वारा आयोजित 'हिंदी आलोचना और महावीरप्रसाद द्विवेदी' विषयक राष्ट्रीय संगोष्ठी में 'महावीरप्रसाद द्विवेदी और हिंदी आलोचना' शीर्षक 4-5 अक्टूबर 2013 को शोध पत्र प्रस्तुत ।
3. मोतीलाल नेहरू महाविद्यालय, दिल्ली विश्वविद्यालय द्वारा आयोजित 25-26 मार्च 2014 को दो दिवसीय 'मध्यकाल और समकालीन प्रश्न' विषयक राष्ट्रीय संगोष्ठी संसाधन.पुरुष के रूप में 'रीतिकाव्य के अध्ययन की दृष्टियाँ' शीर्षक आलेख.पाठ ।

उन्मुखीकरण कार्यक्रम में भागीदारी

1. एकेडेमिक स्टाफ कॉलेज, पटना विश्वविद्यालय, पटना द्वारा 23-11-2013 से 20-12-2013 तक आयोजित 65 वॉ उन्मुखीकरण कार्यक्रम में भागीदारी और 'ग्रेड A' के साथ उत्तीर्णता ।

डा. कर्मानन्द आर्य

आलेख/समीक्षाएँ

1. लोक साहित्य एवं संस्कृति का वर्तमान स्वरूप सम्पादित पुस्तक, वाङ्मय प्रकाशन, अलीगढ़, संपादक डा० अल्पना सिंह), आइएसबीएन 978-93-82485-292 (भोजपुरी लोक और साहित्य का वर्तमान स्वरूप विषय पर एक अध्याय प्रकाशित पृ० 22-29)
2. समकालीन विमर्श मुद्दे और बहस, संपादक-रवि कुमार गौड़, में एक अध्याय – 'समकालीन विमर्श : युवा दृष्टि और

दलित लेखन” वांग्मय प्रकाशन अलीगढ़, प्रकाशित, आइएसबीएन- ९७८-९३-८०८४५-२६-५

3. ‘गजलकार हीरालाल के साहित्य का समीक्षात्मक मूल्यांकन’ संपादक हरिशंकर मिश्र में एक अध्याय ‘अनगढ़ पत्थर : बयान ए हकीकत’ प्रकाशित, वांग्मय प्रकाशन अलीगढ़
4. दोआबा प्रतिष्ठित साहित्यिक पत्रिका संपादक प्रो. जाबिर हुसेन जून जुलाई- २०१३ पटना, वर्ष ७ अंक १५ में बारह कवितायें प्रकाशित
5. तलाश वर्ष १६ अंक तीन में सितम्बर १३ में कविता प्रकाशित – कैसे लिखूं पुलिस सत्ता और महबूबा पर कविता
6. अंगिकालोक-अंक ९-वर्ष १ कविता में घायल देश के सिपाही प्रकाशित, अक्टूबर १३
7. वंचित जनता अंक १९२०- अक्टूबर कविता में २०१३ नवम्बर-गिरनार का भेड़िया प्रकाशित
8. SCANNER पत्रिका वर्ष ८- अंक १-सितम्बर २०१३ में कविता‘ घायल देश के सिपाही प्रकाशित’
9. ‘अन्तिम जन’ महात्मागांधी अन्तराष्ट्रीय प्रतिष्ठान दिल्ली के जुलाई 13 अंक में तीन कवितायें प्रकाशित
10. SCANNER पत्रिका वर्ष १०-अंक ,नवम्बर २०१३ में कविता‘ पिछड़ गए शब्द’ प्रकाशित

सेमीनार/ संगोष्ठी

1. गुजरात केन्द्रीय विश्वविद्यालय के भारतीय भाषा और साहित्य विभाग द्वारा आयोजित राष्ट्रीय संगोष्ठी भारतीय साहित्य और साहित्य : अन्तः संवाद दिनांक ०४-०५ अक्टूबर १३ में हासिये का साहित्य बनाम मुख्यधारा का साहित्य विषय पर शोधपत्र का वाचन
2. दिनांक ३ फरवरी २०१४ को बिहार केन्द्रीय विश्वविद्यालय के भाषा और साहित्य अनुभाग की तरफ से साप्ताहिक श्रृंखला संगोष्ठी के अंतर्गत ‘समकालीन कविता पर बातचीत और कविता पाठ’ संगोष्ठी में शोधपत्र का वाचन

श्री अनुज लुगुन

आलेख / समीक्षाएँ

1. जुलाई 2013 में जवाहरलाल नेहरु विश्वविद्यालय में ‘आदिवासी –साहित्य’ विषय पर आयोजित राष्ट्रीय सेमिनार में “आदिवासी जीवन दर्शन और मुंडारी गीत” शीर्षक से शोध-पत्र की प्रस्तुति।
2. अगस्त 2013 में हैदराबाद केन्द्रीय विश्वविद्यालय में ‘स्वाधीनता आन्दोलन और आदिवासी साहित्य’ विषय पर आयोजित राष्ट्रीय सेमिनार में “स्वाधीनता आन्दोलन और मुंडारी साहित्य” शीर्षक से शोध – पत्र की प्रस्तुति।
3. महात्मा गाँधी अंतराष्ट्रीय हिंदी विश्वविद्यालय ,वर्द्धा में आयोजित ‘कृत्या अंतराष्ट्रीय कविता सम्मलेन- 2013 में भागीदारी एवं कविता पाठ।
4. द पब्लिक एजेंडा,नयी दिल्ली के साहित्य विशेषांक-2013 में कविता ‘धान के खेत’ प्रकाशित।
5. साहित्यिक पत्रिका ‘पहल-94’ के दिसम्बर-2013 के अंक में कवितायें प्रकाशित |
6. ‘मूक आवाज’ पाण्डिचेरी ,से प्रकाशित पत्रिका के अंक जनवरी-मार्च 2014 के अंक में कविता प्रकाशित
7. ‘समावर्तन’ उज्जैन,(मप्र) से प्रकाशित साहित्यिक पत्रिका के मार्च-2014 के अंक में कवितायें प्रकाशित

भारतीय भाषा केंद्र (हिंदी) द्वारा आयोजित सेमिनार

31 जुलाई, 2013	“प्रेमचंद की परंपरा और हिन्दी साहित्य”
9 सितम्बर, 2013	“नवजागरण के अग्रदूत भारतेन्दु”
29 अक्टूबर, 2013	“राजेन्द्र यादव का हिंदी साहित्य एवं पत्रकारिता में अवदान”
20 नवम्बर, 2013	“ओमप्रकाश वाल्मिकी और दलित लेखन सौंदर्यशास्त्र”
16 जनवरी, 2014	“मध्यकाल की पूर्वपीठिका”
23 जनवरी, 2014	“कबीर की भक्ति-भावना”
29 जनवरी, 2014	“बिहारी की काव्य-कला”
05 फरवरी, 2014	“निराला की प्रासंगिकता”
12 फरवरी, 2014	“गोदान: एक पुनर्पाठ”
17 फरवरी, 2014	“हिंदी कहानी में अमरकांत का योगदान”

4.5.3 Centre for Indian Languages (Urdu)

Publication and Participation in Academic Activities

Dr. Kafil Ahmad Naseem

Publications

1. Published an article entitled ‘Professor Nasr Lutfur Rahman that Sheriat’ in Urdu monthly ‘*Suhail*’ Kolkata, Prof. Lutfur Rahman number, November-December 2013.
2. Published a Ghazal entitled ‘Heart to Heart vexation look’ in the Urdu monthly Mktba Jamia, New Delhi - December 2013.

Papers Published

1. Published a paper on ‘Ecotheology and the notion of Multiculturalism in Amitav Ghosh’s *The Hungry Tide* and *Sea of Poppies*’ in Indian English Novel of the New Millennium, Prabhat K. Singh(editor), Cambridge Scholar Press, 978-1-4438-4951-7

Participation in Conference / Seminar / Workshop / Symposia

1. ‘Urdu speaking culture, society and politics’ organised under Seminar Series at CUB Gaya campus on November 25, 2013

Other Activities

1. Written and sung an Urdu Njhm ‘Silulbil-Bunyad the side!’ addressed to founder Vice-Chancellor Professor Janak Pandey, at the Pride Hotel, Gaya on March 12, 2014.

4.6 School of Media, Arts & Aesthetics

Human life is nourished by the elements of arts and aesthetics and the media is the center of human communication. In this respect Media, Arts and Aesthetics are the integral segments of human life. The academic study of these aspects of life is significant so far as the total development of human life is

concerned. To fulfill the academic needs, behavioral patterns and cultivation of futuristic ideas and pattern of life are the mission of teaching, training and research in the school of Media, Arts and Aesthetics of CUB.

The core idea behind School of Media, Arts and Aesthetics in CUB is to develop such Masters level programs which combine various media, culture and arts forms together. India has a long history of arts and aesthetics, it is imperative to develop curricula which give holistic and practical input to the students. Dance, music, theater, painting, films and media are integral part of any society and Indian culture has a long and very robust heritage. The School of Media, Arts and Aesthetics wishes to be interdisciplinary in nature which enlarges students' umbrella of knowledge and understanding. Besides this the School aims to give hands-on practical knowledge of various forms of media, arts and aesthetics with rigorous industrial training modules. At present the School provides MA in Communication and Media Studies under Center for Mass Communication and Media. The program was established in 2011 with an objective to provide extensive media training. There is a dearth of good educated media professionals and academicians; the program has been designed to provide intended human resource to both media industry and academia. The specialization papers in the second year offer in-depth knowledge whereas the first year papers provide stout foundation. The Center for Mass Communication and Media believes in fabricating effective communicator in field of print, electronic, online, films, advertising and public relations etc.

4.6.1 Centre for Mass Communication and Media

Centre for Mass Communication and Media has been established in Central University of Bihar with an aim to promote quality media studies in higher education. Media is witnessing a steep growth country wide and there is an abundant demand of trained media professionals and academicians. The major thrust of the curriculum is to impart theoretical and practical knowledge of various aspects of media. The course is designed in such a way that it gives students an overall understanding of media with specialization in electronic journalism, electronic media production, online journalism and advance print. Industry training, institutional visits, field visits, live projects are integral component of the course. It abets the students in understanding the functioning of various media institutes and acquaints them with demanding media culture.

M.A. Communication & Media Studies

During the last couple of decades the Media in the country has grown by leaps and bounds and is now rated amongst the four biggest Media industry of the world. Remarkable improvements have been observed in the areas of content and their presentation, production techniques, technical quality, transmission of programmes and audience/readers feedback and research. The number of broadcast channels, users of internet/multimedia and circulation of newspapers has increased enormously, thereby, increasing the demand for well-educated and trained media professionals in the fields of online, print and broadcast journalism, fiction and non-fiction programmes for radio and television, media research and allied disciplines. A youth intending to join the media profession today need to attend a very good foundation course to learn the art and craft of media and ability to communicate effectively through state-of-the-art technology and also develop a media specialization in his/her area of interest. This course has been designed keeping in mind the current and future needs of media profession with provision of specializations in print, broadcast (radio and television), online and media research.

Media Laboratory

Centre for Mass Communication and Media has two Labs namely electronic media production lab and computer lab. Electronic media production lab is well equipped with professional cameras (Panasonic), audio

console, video mixer and Apple Mac-Pro editing suite with necessary softwares. Computer lab comprises of a set of ten computers loaded with Quark Express, Adobe Masters Collection CS 5.5 which consists of Photoshop, Indesign, Illustrator, Flash, Dreamweaver, Fireworks, Adobe Premiere, and Adobe Audition. Further, handy cameras, digital still cameras provision of film screening are also available in the lab. In future, the Centre plans to establish highly advance electronic media studio. Besides, Hindi and English newspapers and magazines are available to students to inculcate good reading habits; a television set with digital connection to give practical inputs regarding the latest trends in electronic media.

Faculty

1. Dr. Kinshuk Pathak, PhD Journalism, Makhanlal Chaturvedi Rashtriya Patrakarita Evam Sanchar Vishwavidyalaya, Assistant Professor
2. Mr. Sujeet Kumar, MA Mass Communication, Guru Jambheshwar University), Assistant Professor
3. Dr. Anindya Deb, PhD New Media, Assam University, Silchar, Assistant Professor

Publication and Participation in Academic Activities

Dr. Kinshuk Pathak

Participation in Conference/Seminar/Workshop/Symposia

1. Participated in formation of question bank development workshop as Resoure Person and also delivered a lecture on the topic entitled '*Newspaper Layout – Content and Look*' at the digital repository of the Vardhaman Mahaveer Open University, Kota, Rajasthan during February 13-15, 2014.

Academic Activities

1. Nominated as member of the Board of Studies of the Department of Journalism and Mass Communication of Nalanda Open University (NOU), Patna.

Articles Published

1. Published an article entitled '*Gunwattapurna Uccha Shiksha Ki Chunautiyan*' in Hindi daily Prabhat Khabar on 28th February, 2014.
2. Published an article entitled '*Chunawi Mahotswa Me Naro Ke Kolahal*' in Hindi daily Hindustan on 26th March, 2014.

Activities Organised by the Centre

1. Special lecture on 'Global Television

Mr. Ashok Ogra, former program producer of Discovery Channel visited Centre for Mass Communication and Media on 13th March, 2014 and delivered a special lecture on 'Global Television'. A scholar and academician, Mr. Ashok Ogra emphasized on the current importance of 'Global Television' and narrated its growth and development. Mr. Ogra emphasized the importance of intercultural relationship among countries. Head of the Department Prof. Iftekhhar Ahmed welcomed Mr. Ashok Ogra and presented an account of his works and contribution.

2. Lecture by Tariq Reza Khan

Centre for Mass Communication and Media invited Mr. Tariq Reza Khan an eloquent teacher in the field of modern cinematography on April 10, 2014. He delivered a lecture on cinematography and gave hands on training to students on the uses of lighting in video camera shooting.

4.7 School of Law and Governance

Since liberalizing its markets in 1991, India has emerged as one of the fastest growing economies in the world. Globalization is moulding the legal landscape in emerging economies and blurring the boundaries between global and local. Last century of the last millennium witnessed and generated the promise of improvement and development in the field of science, technology and law. That century also helped us to arrive at new economic, social, ecological and political arrangements all over the world. New horizons were opened in the field of trade and commerce, science & technology and law & jurisprudence. Various new areas in the field of law were opened. Now the world is heading towards rapid progress in all most all fields of knowledge including law and the globalization has changed the entire fabric of polity and society. Globalization and the changing dimension of the Indian economy and polity have thrown up new challenges before us. It has brought a tough competition in educational services sectors. We are facing tough competition not only from within but from outside the country. Internationalization and globalization of the legal education and the probable entry of foreign lawyers into India poses a serious threat to the legal profession in India generally and to the Indian lawyers and law students in particular. It is transforming virtually every sector of the world's economy, and that this transformation has important implications for the rapidly globalizing market for legal services. With the shift of economic powers, India, China and other emerging economies are becoming central powers in this market.

Change is the law of nature and law is the regulator of social change. It is sine qua non for the development of rule of law and a sustainable democratic order. Law is also a social science and it is closely linked with society. A society cannot remain static and therefore, law in order to meet the changing requirements should keep abreast of time. It is not fanciful omnipotence in the sky but a flexible instrument of social order, dependent on the political and other values of the society which it purports to regulate. Thus, through its dynamism it is aspiring to strengthen the foundation of the economic order. In a democratic country like India where rule of law is driving force of the government, legal education assumes great significance. Legal education helps in bringing and establishing socio-economic justice. It is the heart and the very soul of the society for administering rule of law in a democratic country like ours. Therefore, quality legal education is to be imparted to the law students taking into consideration the changing needs of the society and in the changing era of globalization. The traditional views of legal education and research have become relic of the past. Now, a lawyer is expected to serve not only within the country but outside our country. They are also expected to start their carriers with renowned global law firms and global law schools etc. Different opportunities are there before the law students now and these are ever widening e.g. legal actors, legislators, judges, civil servants, policy makers, lawyer in defence services, lawyer of banking and insurance sectors, corporate lawyers, corporate lobbyists, legal academicians and editorial writers, jobs in Legal Process Outsourcing(LPO) and many more. The new notion of law and jurisprudence demands a different attitude to legal studies and research. In the changing liberalized and globalized era it would be blunder for the law students to confine themselves only to mere traditional legal texts. They need to pay proper attention to the other related disciplines of study and to equip themselves as valuable knowledge workers and human resources to keep pace with the changing demand of the time.

However, it is in this national and international spectacle, interdisciplinary studies on the interactive dimensions of law, science and economics are gaining importance slowly but surely. Multidisciplinary

approach to the study of law is gradually emerging as the need of the hour. CUB has adequate infrastructural facilities to provide the perfect ambience for interdisciplinary studies in law, in its true sense. School of law and governance, CUB, is not only imbued with multidisciplinary approach to the legal studies and research but it is making genuine efforts to disseminate such approach to both the privileged and underprivileged learners and researchers of law and jurisprudence. The school is striving towards imparting quality legal education to the students including the students who are from poor, oppressed, downtrodden and backward communities of the society. The mission of the school is to equip the students with critical, analytical and applied skills and also to make both transactional and litigating lawyers.

Five-Year Integrated BA. LLB (Hons.)

The five years (10 semesters) BA.LLB (Hons.) programme is designed to impart quality legal education to the students with subjects like Political Science, Sociology, Economics, Philosophy, Psychology, Legal History along with English. We have total 54 subjects, including 8 Law Hons. Papers, 32 General Law Papers, 2 language papers, and 12 Social Science Papers.

Five-Year Integrated BSc. LLB (Hons.)

The five years (10 semesters) BSc..LLB (Hons.) programme is designed to impart quality legal education to the students with subjects like Physics, Chemistry, Life Science, along with English as compulsory subjects. This programme provides clear understanding of the principle related to science and law. We have total 54 subjects, including 8 Law Hons. Papers, 32 General Law Papers, 2 language papers, and 12 Science Papers.

Faculty

1. Dr. Pradip Kumar Das, PhD Intellectual Property Rights law, University of Burdwan, Assistant Professor
2. Ms. Poonam Kumari, LL.M Human Rights, National Law School of India University (Bangalore), Assistant Professor
3. Mr. Ahsan Rashid, LL.M Jamia Millia Islamia (New Delhi), Assistant Professor

Publication and Participation in Academic Activities

Dr. Pradip Kumar Das

Publications in ISSN Journal & as book Chapter with ISBN Number

1. Legal Protection of Traditional Cultural Expressions in India: A Review; Sent in December, 2013, and Accepted for publication as book chapter with ISBN.
2. Human Rights perspective of Intellectual Property: An Overview: Published in Indian Human Rights Law Review; R.Cambray & Company Private Ltd.; Vol.4, No.-2, Dec.-2013, Page No.-157[ISSN 2230-7036]
3. Legal and regulatory frameworks of corporate governance in USA and India - A comparative study; Published in CALCUTTA LAW TIMES; ISSN- 0971-748X; Vol.2 2014; Part-III; Page no.38-53.
4. Legal Protection of Traditional Cultural Expressions or Folklore in India: An appraisal; Published in SHODH PRERAK in Vol. No. III, Issue 3, July 2013 [a Multidisciplinary Quarterly International Refereed Research Journal], ISSN NO. 2231-413X.

5. FDI in retail sector and legal regulatory framework in India: An appraisal; (Sent and accepted in January, 2014 by Publisher of Law Journal of Jogesh Chandra Chowdhury Law College; Calcutta University; With ISSN);

Ms. Poonam Kumari

Publications in ISSN Journal & as book Chapter with ISBN Number

1. Article entitled, “Disaster Management in India: Role of Law and Applicability” has been sent and accepted in month of March 2014 by the Publisher of Journal of Lucknow University and it is under the process of printing, with ISSN.
2. Book Chapter entitled,” Legal Protection of Traditional Knowledge: A Critical Discourse from International Perspective; Sent and Accepted for publication as Book Chapter in December, 2013. It is under the process of Printing with ISBN.

Mr. Ahsan Rashid

Publications in ISSN Journal & as book Chapter with ISBN Number

1. Speedy Trial As a Part of Fundamental Human Rights in India: Legal Protections”, Published in Orient Journal of Law and Social Sciences, Andhra Pradesh, Volume- VIII, Issue-4, March 2014, ISSN 0973-7480

Activities organized by the School

1. Speedy Trial As a Part of Fundamental Human Rights in India: Legal Protections”, Published in Orient Journal of Law and Social Sciences, Andhra Pradesh, Volume- VIII, Issue-4, March 2014, ISSN 0973-7480
2. A Seminar of the students was organised on the topic, “Crime against Women: Legislative and Judicial Aspects” on 20th January, 2014.
3. A Seminar of Students was organised on the topic, “Rights of Detenue in India: Legal and Constitutional Perspective” on 18th February 2014.
4. Moot Courts had been organised by the School on 7th February, 2014 and on 21st February 2014 etc.

Organised guest lecture by Dr. Arbinda Sahoo, Assistant Professor, National University of Study and Research in Law, Ranchi, Jharkhand, for our B.A.LL.B.(H) & B.SC.LL.B.(H) students in November, 2013 on the topic ‘Legal Fallacy’.

4.8 School of Education

India in the 21st century needs to consolidate in the domain of education for holistic development of the society. And, to accomplish this task, the utmost priority is to prepare professionally qualified teachers. In this direction, the School of Education, Central University of Bihar has gone ahead by launching Four Year Dual Degree Integrated Undergraduate innovative programmes in the two streams namely, BA.BEd and BSc.BEd from the academic session 2013-14. Further, to cater the demand of quality teacher educators and researchers in the field of education, the school is looking forward to start MEd from the academic session 2014-15. Viewing the increasing demand of professionally qualified teachers to deal the children with special

needs in classrooms, the school also wishes to start Special Education programmes in various disability areas very soon.

The goal of the school is to grow as an excellent hub with international identity for quality research and innovations in education by following best practices to bridge the gap between theory and practice in teacher education and to work as nodal centre to spread such best practices in the whole state of Bihar. To achieve its goal, the school possess a team of able and sensitive teachers striving to promote high standards of knowledge, professional skills, cultural understanding, social responsibility and synergistic progress within a truly multicultural educational environment among the prospective teachers. It offers state-of-art curricula incorporating the modern thoughts in the field of teacher education. It also provides sensitization regarding the need, value and place of teaching profession through ample practical experiences. The evaluation of all the programmes in the School is continuous and internal in nature and is based on regular class participation, assignments, presentations, seminars, project, practical laboratory works, mid-semester exams, end-semester exams and especially school/field experience programme/Internship, as designed in the programme structure.

Four-Year Integrated Dual Degree Undergraduate BA BEd and BSc. BEd Programme

BA.BEd and BSc.BEd programmes aim to equip the students with the contextual competency by providing basic knowledge in core subjects and orient them to quality teaching skills. The students are being provided an exposure to education oriented courses in each semester along with efficient training in both languages Hindi and English in first two semesters, as required, for development of better communication skills specially desired for teaching. Special emphasis is given on the development of teaching aptitude and acquisition of ideal values of teaching profession. The students have dual benefit of acquiring Bachelor's degrees in their stream (Arts or Science) as well as in Education on completing the four year integrated dual degree programme (BA.BEd or BSc.BEd). It is hoped that students will develop motivation and professional attitude of teaching by promoting innovations in teaching-learning process and will be ready to get inducted in noble profession of teaching.

BA. BEd

The four-year (eight semesters) BA.BEd programme is a dual degree undergraduate programme, which is designed to develop teaching competence among students with subjects like Political Science, History, Sociology, Economics, Languages (Hindi/English/Urdu) along with language proficiency for better communication skills.

BSc. BEd

The four-year (eight semesters) BSc.BEd programme is a dual degree undergraduate programme, which is designed to develop teaching competence among students with subjects like Physics, Chemistry, Mathematics, Animal Science, Plant Science, Computer Science along with language proficiency for better communication skills.

Faculty

1. Dr. Kaushal Kishore, PhD Education, M.J. P. Rohilkhand University (Bareilly), Associate Professor
2. Dr. Mitanjali Sahoo, PhD Education, Utkal University (Odisha), Assistant Professor
3. Dr. Rinki, PhD Education, Assistant Professor

Publication and Participation in Academic Activities

Dr. Kaushal Kishore

Participation in Conference/Seminar/Workshop/Symposia

1. Participated as Resource Person in Workshop on '*ICT in Education*' organized by Department of Education, Magadh University, Bodhgaya on 21st February, 2014
2. Participated in a National Seminar on '*Gandhi, Peace, Social Harmony and Conflict Prevention and Resolution*' organized by Central University of Bihar, Gaya and GITAM University during February 24-26, 2014.
3. Participated and presented a paper entitled '*Networking of TEIs and Schools for Academic Resource Support*' and chaired a session as Resource Person in an International Seminar of IATE on '*Alternatives in School System and Teacher Education*' organized by Department of Education, Allahabad University, Allahabad during March 08-09, 2014.
4. Participated and presented a paper entitled '*CCE: A Case of Central University of Bihar*' in an International Conference of IPA on '*Measurement and Evaluation in Psychology and Education*' organized by Department of Psychology, Magadh University, Bodhgaya during March 29-31, 2014.

Lectures

1. Delivered two invited lectures on (i) *Research Methodology in Education: An Introduction* and (ii) *Basic Issues in Hypothesis Testing* in 8th Refresher Course in Education organized by D.D.U. Gorakhpur University, Gorakhpur on 20th February, 2014.

Dr. Mitanjali Sahoo

Publications

1. Published a research article on *Anxiety and Adjustment of higher secondary school students with differential levels of Self-concept* in VISION Research Journal of Education, Vol.IV, No.1 ISSN No. 2230-9071, April 2013
2. Published a paper on "*Impact of Mastery Learning approach on Achievement in Mathematics at the primary level*" in proceeding of NAAC sponsored National seminar on 29th & 30th April, 2013
3. Published a research article on *Influence of Academic Preference of secondary school students on their Academic Achievement*, in PRANGNYA with ISSN. No. 2229-4864, June, 2013
4. Published a research article on *Leadership Preference Style of Functioning of the Heads of Secondary Schools as perceived by their teachers*, in Himalayan Journal of Social Sciences, Vol.3, Issue No.2, ISSN No. 2231-6639, October-2013

Participation in Conference/Seminar/Workshop/Symposia

- 1) Presented a paper on "*Human Resource Mobility and Its impact on Sustainable Development in India*" in a ICSSR sponsored International Interdisciplinary Conference- Human Resource Mobility in South Asia during October 18-19, 2013 organised by Department of Geography, Sikkim Govt. College, Tadong, Gangtok, Sikkim.

- 2) Presented a paper on “*Impact of Mastery Learning approach on Achievement in Mathematics at the primary level*” in NAAC sponsored National seminar organised by Harkamaya College of Education on 29th and 30th April, 2013.
- 3) Presented a paper on “*Education of children with General Learning Disability*” in an International Seminar on Alternatives in school system and Teacher Education in Collaboration with Indian Association of Teacher Educators and NIOS during 8-9 March, 2014.
- 4) Presented a paper on “*Portfolios and Rubrics: New Innovations for Assessment of Students’ performance*” in a two days National Seminar on Innovation in Teacher Education: Need of the Hour, organised by Uday Memorial B.Ed. College, Ranchi during 22-23 March, 2014.
- 5) Presented a paper on “*Impact of Indian Cinema on Parenting and Education of Children*” in seminar cum film festival- Hundred Years of Indian Cinema jointly organised by Central University of Bihar, Gaya Campus and BARSAs (Students’ Cultural Group of CUB) during 28th -30th March, 2014.
- 6) Acted as Resource person in the workshop on “*ICT in Education*” held during 17th -22nd February, 2014 by Department of Education in collaboration with Directorate of Distance Education, Magadh University.

Dr. Rinki

Publications

1. Published a paper entitled, “Inhibitions, adjustment and rehabilitations expectations: A case study”, in Proceeding of a national conference - *Counselling and Rehabilitation: Reaching the Unreached*, November 2013, Special Education & HEPSN Cell, Jadavpur University. ISBN 97-881-927525-2-5

Participation in Conference/Seminar/Workshop/Symposia

1. Presented a paper entitled “Open Schooling: Issues and challenges” in an international seminar on ‘Alternatives in School System and Teacher Education’ organised by Department of Education, University of Allahabad in collaboration with IATE and NIOS, MHRD, Govt of India during March 8-9, 2014.
2. Presented a paper entitled “Assessment and evaluation in open schooling” in an International conference on ‘Measurement and Evaluation in Psychology and Education’ organised by Department of Psychology, Magadh University in collaboration with IPA (Indian Psychological Association) during March 29-31, 2014.
3. Presented a paper entitled “Health and Cinema” in a Seminar-Cum-Film Festival on Hundred Years of Indian Cinema organised by CUB, Gaya during March 28th – 30th, 2014.
4. Acted as Resource person in a national workshop on “ICT in Education” organised by Department of Education in collaboration with Directorate of Distance Education, Magadh University, Gaya on February 21, 2014.

Activities Organised by the Centre

1. Two sessions on Educational Guidance were organised by the faculty members of Centre for Education for B.A.B.Ed. and B.Sc. B.Ed. students on 25th October, 2013
2. Guidance and counselling session was organised by the faculty members of B.A.B.Ed and B.Sc. B.Ed. programme for the students on 22nd November, 2013.
3. A lecture entitled “Preparation of Achievement Test” was delivered by Prof. S. B. Bhattacharya, Former Dean, Faculty of Education, Banaras Hindu University on 24.01.2014

4. An Experts Meet in Education was organised during 31st January to 2nd February 2014 to develop syllabus of Education Courses in Integrated BA/BSc.BEd, Course Structure of M.Ed. and Course Structure of Integrated M.Phil.-PhD in Education. In this meet Prof. Anita Rastogi, Head, Department of Educational Studies, Jamia Millia Islamia, New Delhi, Prof. N. N. Pandey, Ex-Dean, Faculty of Education and Allied Sciences, MJP Rohilkhand University, Bareilly, (U.P.), Prof. S. C. Agarwal, Head, Department of Education, CSJM University, Kanpur (U.P), Prof. P. K. Sahoo, Ex-Head, Department of Education, University of Allahabad, Allahabad. (U.P.) and Prof. U. C. Vashishtha, Ex-Head and Dean, Faculty of Education, Lucknow University, Lucknow (U.P.) participated as external experts.
5. A talk on “*Ancient Education System in India*” was delivered by Dr. Sudhanshu Ku. Jha, Assistant Professor (History), CUB under weekly seminar series on 14th February, 2014
6. An Extempore Speech Competition was held for the B.A B.Ed. and B.Sc. B.Ed. students on the theme “ Women in the Present Era” on 13th March, 2014
7. A poster competition was organised for the students of the department on the theme “A Classroom” on 27th March, 2014.

Department of Chemistry

Dr. Amiya Priyam, PhD Chemistry, Jadavpur University (Kolkata), Assitant Professor

Publications

1. Published a paper entitled ‘Citrate-hydrazine hydrogen-bonding driven single-step synthesis of tunable near-IR plasmonic, anisotropic silver nanocrystals: Implications in SERS spectroscopy of inorganic oxoanions’ **Journal** : Dalton Transactions, **Year**: 2013, **Volume**: 42, Page: 10597-10607 (**Impact Factor** : 3.81)
<http://pubs.rsc.org/en/content/articlelanding/2014/dt/c4dt01091d#!divAbstract>
2. Published a paper entitled ‘Facile tuning of plasmon bands in hollow silver nanoshells using mild reductant and mild stabilizer’
<http://pubs.rsc.org/en/content/articlelanding/2013/dt/c3dt50684c#!divAbstract>

Participation in Conference / Seminar / Workshop / Symposia

1. Presented a paper in the international conference, IUMRS-ICA 2013 at IISc Bangalore during Dec 16-20, 2013. Title of the paper: “Supersaturation-enhanced monodispersity, luminescence efficiency and non-linear optical properties of CdTe quantum dots and nanowires”

Lecture

1. Delivered a set of invited lectures on “Nanoscience and Nanotechnology” during January 16-18, 2014 at department of Physics, Assam University, Silchar.

The topics of lectures were as follows:

- i) Nanotechnology: An Introduction
- ii) Chemical Synthesis of Nanomaterials
- iii) Semiconductor Nanocrystals: Synthesis, Growth Kinetics and Applications
- iv) Self-Assembly of Nanomaterials

- ❖ The lecture series was fully sponsored by Assam University and he was felicitated by memento.

Funded Research Projects

1. Received a grant of Rs. 48.4 lakhs for research on “Rational Design of Plasmon-engineered Luminescence Upconversion Nanomaterials for Multimodal Imaging and Therapy” Nano Mission-DST, Govt. of India in the month of March, 2014.
2. Received a grant of Rs. 27 lakhs from DST, Govt. of India under the Fast-Track Scheme for Young Scientists in Feb. 2014.
3. A project under the Collaborative research scheme of UGC-DAE Consortium for Scientific Research, Kolkata Centre has also been sanctioned in Feb 2014.

Dr. Girish Chandra, PhD Chemistry, IIT Bombay, Assitant Professor

Book Chapter Published

1. Published a book chapter in Chemical Synthesis of Nucleosides Analogues, Pedro Merino (Editor), entitled ‘Recent Advances in Synthesis and Biological activity of 4'-Thionucleosides’ Varughese Alexander, Mahesh Satu Majik, Girish Chandra, Lak Shin Jeong.
Publisher: Wiley-VCH, page no: 655, ISBN: 978-1-118-00751-8., 2013.

Article Published in Journal

1. Published an article in the Journal of Medical Chemistry entitled ‘*Synthesis and Anti-Renal Fibrosis Activity of Conformationally Locked Truncated 2-Hexynyl-N6-Substituted-(N)-Methanocarbanucleosides as A3 Adenosine Receptor Antagonists and Partial Agonists*’. Akshata Nayak, Girish Chandra, Inah Hwang, Kyunglim Kim, Xiyan Hou, Hea Kim, Pramod Sahu, , Kuldeep Roy, Jakyung Yoo, Yoonji Lee, Minghua Cui, Sun Choi, Steven Moss, Khai Phan, Zhan-Guo Gao, Hunjoo Ha, Kenneth Jacobson, Lak Shin Jeong. Issue:2014, 57 (4), pp 1344–1354, ISSN: [0022-2623](https://doi.org/10.1022-2623), DOI: [10.1021/jm4015313](https://doi.org/10.1021/jm4015313)<http://pubs.acs.org/doi/pdf/10.1021/jm4015313>

Funded Research Project

1. Received a grant under Fast Track Young Scientist Award scheme. (2014-2017) for research project entitled ‘*New Generation of Fluoro Carbocyclic Nucleoside for the treatment of Hepatitis C*’ from Department of Science and Technology (DST), Govt. of India.

5. New Academic Programmes

Integrated M.Phil – PhD programmes have been launched in 11 subjects namely, Biotechnology, Life Science, Bioinformatics, Environmental Science, Mathematics, Statistics, Computer Science, Development Studies, Political Science and International Relations, Economics and Hindi

6. Students Statistics

Session: PG IVth Semester (2012-14), PG IInd Semester (2013-14), UG 1st Semester,
Integrated MPhil.PhD (Position as on March 31, 2014)

SUBJECT	MALE	FEMALE	TOTAL
M.Sc Bioinformatics IV Sem			
OTHERS	2	1	3
OBC	2	4	6
SC	0	0	0
ST			
PH			
TOTAL	4	5	9
M.Sc Biotechnology IV Sem			
OTHERS	4	7	11
OBC	4	3	7
SC	1	1	2
ST		1	1
PH			
TOTAL	9	12	21
M.Sc Life Science IV Sem			
OTHERS	1	5	6
OBC	0	2	2
SC	0	0	0
ST	0	0	0
PH			
TOTAL	1	7	8
M.Sc Computer Science IV Sem			
OTHERS	11	1	12
OBC	5	0	5
SC	2	1	3
ST			
PH			
TOTAL	18	2	20
M.Tech Computer Science IV Sem			
OTHERS	8	4	12
OBC	2	2	4

SC	2	0	2
ST			
PH			
TOTAL	12	6	18
M.Sc Environmental Science IV Sem			
OTHERS	5	3	8
OBC	7	2	9
SC	1	1	2
ST			
PH			
TOTAL	13	6	19
M.Sc Mathematics IV Sem			
OTHERS	2	3	5
OBC	2	1	3
SC	1	1	2
ST	1	0	1
PH			
TOTAL	6	5	11
M.Sc Statistics IV Sem			
OTHERS	0	1	1
OBC	0	0	0
SC	0	0	0
ST			
PH			
TOTAL	0	1	1
MA Communication & Media IV Sem			
OTHERS	3	5	8
OBC	3	2	5
SC	0	0	0
ST			
PH			
TOTAL	6	7	13
MA Development Studies IV Sem			
OTHERS	5	1	6
OBC	4	2	6
SC	0	0	0

	ST			
	PH			
	TOTAL	9	3	12
MA Economics IV Sem				
	OTHERS	1		1
	OBC	3	1	4
	SC			0
	ST			
	PH			
	TOTAL	4	1	5
MA Psychology IV Sem				
	OTHERS		2	2
	OBC		2	2
	SC			0
	ST			
	PH			
	TOTAL	0	4	4
MA Sociology IV Sem				
	OTHERS		1	1
	OBC			0
	SC			0
	ST			
	PH			
	TOTAL	0	1	1
MA English IV Sem				
	OTHERS	1	1	2
	OBC	0	1	1
	SC			0
	ST			
	PH			
	TOTAL	1	2	3
CONSOLIDATED PG - IV SEMESTER				
	OTHERS	43	35	78
	OBC	32	22	54

SC	7	4	11
ST	1	1	2
PH	0	0	0
TOTAL	83	62	145
SUBJECT	MALE	FEMALE	TOTAL
M.Sc Bioinformatics II Sem			
OTHERS	2	5	7
OBC	4	3	7
SC	2	1	3
ST			0
PH			
TOTAL	8	9	17
M.Sc Biotechnology II Sem			
OTHERS	2	4	6
OBC	5	4	9
SC	3	0	3
ST			0
PH			
TOTAL	10	8	18
M.Sc Life Science II Sem			
OTHERS	7	2	9
OBC	5	2	7
SC	1	0	1
ST	0	0	0
PH			
TOTAL	13	4	17
M.Sc Computer Science II Sem			
OTHERS	6	2	8
OBC	5	4	9
SC	0	0	0
ST	0	0	0
PH			
TOTAL	11	6	17
M.Tech Computer Science II Sem			

OTHERS	4	0	4
OBC	7	2	9
SC	2	0	2
ST			
PH			
TOTAL	13	2	15
M.Sc Environmental Science II Sem			
OTHERS	5	8	13
OBC	2	2	4
SC	0	1	1
ST			0
PH			
TOTAL	7	11	18
M.Sc Mathematics II Sem			
OTHERS	5	6	11
OBC	5	1	6
SC	2	0	2
ST			0
PH			
TOTAL	12	7	19
M.Sc Statistics II Sem			
OTHERS	2	2	4
OBC	0	0	0
SC	0	0	0
ST	0	0	0
PH			
TOTAL	2	2	4
MA Communication & Media II Sem			
OTHERS	5	3	8
OBC	6	4	10
SC	0	0	0
ST	0	0	0
PH			
TOTAL	11	7	18
MA Development Studies II Sem			

OTHERS	5	1	6
OBC	4	1	5
SC	1		1
ST			0
PH			
TOTAL	10	2	12
MA Psychology II Sem			
OTHERS	0	0	0
OBC	0	1	1
SC	0	0	0
ST	0	0	0
PH			
TOTAL	0	1	1
MA Economics II Sem			
OTHERS	3	4	7
OBC	2	2	4
SC	1	0	1
ST			0
PH			
TOTAL	6	6	12
MA Sociology II Sem			
OTHERS	3	2	5
OBC	0	1	1
SC			0
ST			0
PH			
TOTAL	3	3	6
MA Hindi II Sem			
OTHERS	1	0	1
OBC	1	3	4
SC			0
ST			0
PH			
TOTAL	2	3	5

MA English II Sem			
OTHERS	3	2	5
OBC	1		1
SC			0
ST			0
PH			
TOTAL	4	2	6
MA Political Science II Sem			
OTHERS	1	2	3
OBC	0	1	1
SC	0	0	0
ST	0	0	0
PH			
TOTAL	1	3	4
CONSOLIDATED PG - II SEMESTER			
OTHERS	54	43	97
OBC	47	31	78
SC	12	2	14
ST	0	0	0
PH	0	0	0
TOTAL	113	76	189
BA.BEd. I Semester			
OTHERS	9	5	14
OBC	5	6	11
SC	0	1	1
ST	0	0	0
PH			
TOTAL	14	12	26
BSc.BEd I Semester			
OTHERS	7	3	10
OBC	7	5	12
SC	2	1	3
ST	0	0	0
PH			
TOTAL	16	9	25

BA LLB I Semester			
OTHERS	11	5	16
OBC	8	1	9
SC	1	1	2
ST	0	0	0
PH			
TOTAL	20	7	27
BSc.LLB I Semester			
OTHERS	5	4	9
OBC	4	4	8
SC	0	0	0
ST	0	0	0
PH			
TOTAL	9	8	17
CONSOLIDATED UG - I SEMESTER			
OTHERS	32	17	49
OBC	24	16	40
SC	3	3	6
ST	0	0	0
PH	0	0	0
TOTAL	34	36	95
Integrated MPhil.PhD Data - 2014 Session			
OTHERS	3	5	8
OBC	4	0	4
SC	3		3
ST			
PH			
TOTAL	10	5	15

7. Salient Features of the Academic Programme

7.1 Semester System

Semester system is followed for all academic programmes to enlarge curricular space and encourage accelerated learning opportunities. This system further enhances ability to accommodate diverse choices that dynamic and motivated students may like to have. As per requirements of an academic programme; decisions regarding student-faculty contact hours during a semester in different programmes, developing the credit system determining the quantum of learning, time-distribution on class room work, elements of

participatory teaching- learning process, field-work, lab-work and other curricular work are taken by the academic bodies of the University.

7.2. Choice Based Credit System

Choice Based Credit System (CBCS) has some unique features like enhanced learning opportunities, ability to match student's scholastic needs and aspirations, horizontal intra and inter School/ Centre mobility of students, inter-institutional transferability of students, improvement in educational quality and excellence, flexibility for working students to complete the programme over an extended period of time, innovation and comparability of educational programmes across the country. CBCS will facilitate vertical integration of knowledge and holistic development.

7.3. Evaluation System

'Continuous Internal Evaluation' is the central feature of the evaluation system of this University. A teacher who offers the course is the best person to assess performance of the students. However, there is end semester evaluation and to ensure transparency, fair-play and accountability, appropriate mechanisms have been devised.

7.4. Infrastructure and Ambience

All appropriate steps are taken to create and maintain infrastructure for quality teaching and research as per requirements.

7.5 Psychological Counselling and Guidance Services

Like physical health, mental health determines efficiency and productivity. Mental health is critically important for teaching-learning process, creativity and congenial environment in academic institutions. The University adopts a forward looking approach and institutes psychological counselling and guidance services for students, faculty and employees. Innovative programmes like 'Crises Intervention Programmes' and 'Community Mental Health Programme' are planned to be developed. To facilitate learning, the motto of "Learning Together" is encouraged and practiced.

7.6. Governance

The University is evolving dynamic and transparent governance and need based capacity-building system. It is moving towards e-governance and continuous training of the personnel to make the University system "user-friendly". Thus, professional development of educational administrators will be a necessary component for the capacity building of the University administration.

7.7. Planning, Monitoring and Evaluation:

The "Internal Quality Assurance Cell" is to ensure progressive improvement in efficiency of the University administration. The Planning, Development and Monitoring Board (PDMB) with appropriate powers and functions is instituted as per the guidelines of the UGC.

7.8. Admission and National Character:

UGC guidelines are followed in the University admission process. Efforts are made to have students from all over the country and to achieve it, admission test is conducted on an all India basis.

Central Universitie Combined Entrance Test (CUCET) 2013: Seven Central Universities (Bihar, Jammu, Jharkhand, Kashmir, Kerala, Rajasthan and Tamil Nadu) have joined hands and institutionalized “Central Universities Common Entrance Test (CUCET) 2013. Thus, one single application and entrance test (CUCET) provides opportunities for admission in seven Central Universities located nation - wide for the academic programmes offered in 2013-14.

7.9 Summer Internship

Classroom learning transactions combined with field based practical knowledge and hands on practice can make the total learning outcome more robust and holistic. Considering the indispensable role of practice based learning the University has introduced Summer Internship for various programme(s). Internship provides opportunities for students to gain experience in their field, determines interest in a particular career, creates a network of contacts and may gain course credits as well.

1. Summer Internship is generally organised during the intervening period between the close of 2nd and beginning of 3rd semesters and may have duration of up to eight weeks.
2. Students are encouraged to identify approaches and finalize the institution/supervisor (within India only) well in advance of Summer Internship, preferably on the recommendation of the Centre/Department.
3. In view of the University being in formative stage with limited facilities, certain financial assistance, if required, is provided to students coming from economically weak background in form of reimbursement on production of payment receipt etc. upto a maximum of Rs. 5000/- only towards training /course fee and one-time to & fro non-AC sleeper class rail fare by shortest route. However, students availing financial assistance/scholarship under any other scheme for the Internship from any other Organisation/Agency shall not be considered.
4. Student(s) attending Summer Internship are required to abide by the general norms and regulations of the host institution during the period.
5. Prior to leaving for and on coming back from internship student(s) are required to report to the Course Coordinator/Head of the concerned Centre/Department in written.
6. On successful completion of the Internship, student(s) are required to submit a copy of project report to the Course Coordinator/Head of the Centre/Department.
7. Data generated out of the project work during Internship will not be used for any other purpose except academic evaluation as per requirement of the course concerned

7.10 Educational Tours

For educational tours organized as per the course requirements, University may provide financial assistance, if required, to students in the form of one-time to and fro non-AC sleeper class rail fair by the shortest routes. For routes not connected by railways, travel assistance equal to the actual bus fare may be provided.

8. Facilities for Students / Staff

The University is currently located at BIT – Patna Campus adjacent to the JPN International Airport, Patna. The present campus away from city hub provides a serene environment for the students to persue their course of study and a number of academic facilities. Another campus of university is situated in Gaya City, which is easily accessible from Gaya International Airport.

8.1 Library

The University believes that library is the most important element in the facilities of an educational institution and hence the University has developed a well-equipped Library to cater the information requirements of students and faculty members for their academic accomplishments. The library has built a balanced collection of total 18,823 books to support academic curricula, teaching and research in various science and social science subjects. During 2013-2014, library has procured 6,580 books. All the books are barcoded and organized on shelves using Dewey Decimal Classification (DDC) scheme. An Online Public Access Catalogue (OPAC) of library books is made available for students, faculties and officials on every computer in the University premises.

Journals and Databases

The library subscribes to 100 quality print journals and magazines, 376 bound volumes of periodicals and 105 project reports along with more than 8785 full text electronic journals from renowned publishers across the world. Being member of *UGC-Infonet Digital Library Consortium*, the university provides the access of full-text e-journals from publishers like *Springer, Taylor & Francis, Wiley-Blackwell, Oxford University Press, JSTOR, Cambridge University Press*, ten subject collections from Elsevier's *Science Direct*, Annual Reviews, Project Muse, Portland Press, and SIAM Journals. Library also subscribes to e-journals of various internationally acclaimed publishers viz. *IEEE Explore* for Computer Science, ACM Digital Library, *PsycARTICLES* from American Psychological Association (APA) for Psychological Sciences, Nature Biotechnology, Journal of Immunology, The Plant Cell, The Plant Physiology, Transaction of American Mathematical Society, Journal of Biological Chemistry and Cell Stem Cell. Library also subscribes many online databases e.g. *MathSciNet*—a bibliographic database for mathematical sciences; *indastat.com* - socio-economic information about India and its states; *J-Gate*- an electronic gateway to global e-journal literature, *Manupatra*- full text databases for Law.

Library Services

The library is open from 9:00 am to 6:00 pm on all working days. Library services include circulation (issue/return) of books, Inter-Library Loan through DELNET, Current Awareness Service (CAS) for books and journals, photocopy, etc. Nine books are issued to faculty members for a period of thirty days, four books are issued to research scholars for a period of seven working days and three books are issued to students for a period of seven working days. Besides, one book from textbook collection may be issued to faculty members, research scholars and students for overnight. Users can search the availability of books, current status of books, due date of return, reserve book etc. using OPAC. Access to electronic resources is available for students, faculty and officials on their computer within the university premises. Recently, access to these resources has been extended through Virtual Private Network (VPN); faculty members can now access online resources from anywhere. This facility is proposed to be extended, in near future, for students as well.

8.2 Computer Laboratory (CCF)

Computer system facilitates a common computational resource for the academic programs as well as computing resources in the University. The Computer lab is providing a central computing facility to the students, teachers and staffs of the University for their assignments, projects, dissertation and research related works. In computer lab, printing and scanning facilities are provided. Computer lab serves the University for all its IT needs.

Internet & Intranet

Internet connectivity is provided under the scheme of National Mission on Education through Information and Communication Technology (NME-ICT) project of Government of India. All computers are connected with 100 mbps Internet connectivity. In coming months, bandwidth of Internet connection will go up to 1 Gbps. The Intranet network, consisting of gigabyte Ethernet and OFC backbone provides connectivity to departments/Centres, library, class rooms and administration. World class networking product of CISCO has been installed in campus network to provide stable and hassle free computing.

Resources

At present there are 322 high performance computers in the University, including the computer lab with 80 computers. All computers are equipped with latest operating system and application software to cater to the academic needs. Computers are protected by firewall and reliable antivirus software to prevent from computer viruses, malware and unauthorized access. University has licensed copies of software such SPSS, MATLAB, MS-Office 2010, Quick Heal Admin console, KOHA, Windows 7 Professional, Windows Server 2008 R, Red Hat Linux etc. The University has powerful online UPS to protect the computer and other sensitive devices from power fluctuation and surge.

E-Learning Tool (A-View)

Under the NME-ICT scheme, A-VIEW Classroom has been providing connectivity with several Universities together and creates virtual world for students. It also acts as a Knowledge Cafe where students can discuss /chat about the lecture after the live class.

Website

A fully functional Website of the University has been developed. It is maintained and updated regularly. URL of website is www.cub.ac.in.

E-mail Facility

A powerful email system with group mail of student and faculty is functional. Email is provided to each member of the University.

8.3 Hostel and Mess

Limited hostel and mess facilities for students are available at present. However, efforts are on to expand hostels for the students. Separate hostels for Boys and Girls are maintained. A booklet containing rules and regulations regarding discipline and conduct in the University's hostel and mess is given to the students at the time of admission.

8.4 Transport Facility

Transport facility is provided to students on a limited route.

8.5 Health Centre

The University Health Centre provides treatments on a nominal fee for ordinary disorders and ailments under the supervision of resident doctors. The Medical Doctor is available in fixed hours and can be consulted on call basis.

8.6 Vidyarthi Mediclaim Policy

Vidyarthi – Mediclaim for students is a unique policy of National Insurance Company designed to provide Health and Personal accident cover to the students. It also provides for continuation of insured students' education in case of death or permanent total disablement of the guardian due to accident. All the students of the Central University of Bihar are insured under this scheme whereby they are eligible for cashless

treatment in authorised hospitals as well as for reimbursement of cost of treatment in other hospitals within the limit i.e. Rs. 50,000/-.

8.7 Scholarship/Assistantship

The Central University of Bihar has a number of Scholarship/Assistantship schemes which is given below. The same is also available at the website

8.7.1 Merit Scholarship to CUCET/Semester Toppers

Merit Scholarship will be granted for one Semester only. For CUCET Topper(s), it will be for 1st Semester only. Merit scholarship will be granted @ Rs. 1000/- per month for the following period subject to minimum 75% class attendance on monthly basis: Semester 1st – July/August to December (5/6 Months), Semester 2nd – January to June (6 Months), Semester 3rd – July to December (6 Months), and Semester 4th – January to May (5 Months).

Merit Scholarship to Semester Topper

Sl. No	Name of the student	Enrollment No	Programme of Study
1	Asha Sahoo	CUB1303112004	Biotechnology
2	Prem Prakash Singh	CUB1303132010	Life Science
3	Puja Kumari	CUB1302312010	Computer Science
4	Rachana Singh	CUB1303212014	Environmental Science
5	Neha Kumari	CUB1302212001	Statistics
6	Shilpi Sinha	CUB1302212003	Statistics
7	Kumari Sweta Srivastava	CUB1302112010	Mathematics
8	Swadha Parihar	CUB1303122018	Bioinformatics
9	Krishna Megha	CUB1309112009	Comm. and Media Studies
10	Pragati Pallavi	CUB1309112013	Comm.and Media Studies
11	Anand Kashyap	CUB1301112001	Development Studies
12	Durgesh Kumar Keshav	CUB1301212004	Economics
13	Snigdha Kalyani	CUB1301212010	Economics
14	Shalini Kumari	CUB1307112003	Psychology
15	Ambika Kumari	CUB1308212001	Hindi
16	Sooraj HS	CUB1301312006	Sociology
17	Salma Zafar	CUB1301412004	Political Science
18	Annu Priya	CUB1308112003	English
19	Raunak Kumar Singh	CUB1311124022	BA BEd
20	Shubham Anand	CUB1313125024	BSc BEd
21	Dhirendra Kumar	CUB1203212007	Env. Science
22	Anumeha	CUB1203132002	Life Science
23	Rakhi Gauravam	CUB1209112014	Comm. and Media Studies
24	Sucheta Sharma	CUB1202112012	Mathematics
25	Indrajeet Kumar	CUB1201212001	Economics
26	Dipinti Kumari	CUB1203112002	Biotechnology
27	Priyanka Soren	CUB1203112012	Biotechnology

28	Abhishek Dwivedi	CUB1201112001	Development Studies
29	Astha Anupam	CUB1202212003	Statistics
30	Nandan Kumar	CUB1203122004	Bioinformatics
31	Binita Kumari	CUB1208112001	English

8.7.2 Merit cum Means Scholarship

The University encourages and supports meritorious students who are in need of financial assistance to pursue their studies smoothly through merit cum means scholarship. The scholarship is granted in the form of waiver of tuition fee for upto 20% of students in each programme.

First Semester Toppers (July – December 2013)

S No	Name of the Student	Enrolment No.	Department/Centre
1	Abhishek Kumar	CUB1311124002	BA BEd
2	Nandini Raj	CUB1311124017	BA BEd
3	Rishi Kapoor	CUB1311124024	BA BEd
4	Shefali Kumari	CUB1311124026	BA BEd
5	Ravi Kumar	CUB1311124023	BA BEd
6	Ajit Kumar	CUB1311124004	BA BEd
7	Rohit Kumar	CUB1311114026	BSc BEd
8	Ajit Kumar	CUB1311114010	BSc BEd
9	Prabhat Kumar Chaudhary	CUB1313115010	BSc LLB
10	Rohit Sharma	CUB1313115016	BSc LLB
11	Praveen Kumar	CUB1313115016	MA Hindi
12	Abdur Razique	CUB1303132001	M.Sc. Life Science
13	Sneha Kumari	CUB1303132014	M.Sc. Life Science
14	Soumyajoti Ghoshal	CUB1303132015	M.Sc. Life Science
15	Suraj Kumar Jaiswal	CUB1303132017	M.Sc. Life Science
16	Kishan Gupta	CUB1301112007	M.A. Development Studies
17	Rakesh Kumar Roy	CUB1301112012	M.A. Development Studies
18	Dheeraj Kumar	CUB1303212008	M.Sc. Environmental Science
19	Supriya Kumari	CUB1303212018	M.Sc. Environmental Science
20	Santosh Kumar	CUB1309112017	M.A. Comm. & Media Studies
21	Ajeet Kumar	CUB1303112001	M.Sc. Biotechnology
22	Anu Chourasia	CUB1303112002	M.Sc. Biotechnology
23	Asha Sahu	CUB1303112004	M.Sc. Biotechnology
24	Mukesh Kumar	CUB1303112012	M.Sc. Biotechnology
25	Amrendra Kumar	CUB1303122001	M.Sc. Bioinformatics
26	Amrita Kumari	CUB1302312004	M.Sc. Computer Science
27	Kumari Nisha	CUB1302312006	M.Sc. Computer Science
28	Nandita Raj	CUB1302312009	M.Sc. Computer Science
29	Subhash Prasad	CUB1302312014	M.Sc. Computer Science

Third Semester Toppers (July – December 2013)

S No	Name of the Student	Enrolment No.	Department/Centre
1	Anni Kumari	CUB1203132001	M.Sc. Life Science
2	Indrajeet Kumar	CUB1201212001	M.A Economics
3	Soumen Nayak	CUB1202322018	M.Tech Computer Science
4	Vandana Kumari	CUB1203112020	M.Sc. Biotechnology

8.7.3 Merit cum Means Scholarship for Hostellers

The University encourages and supports meritorious students who are in need of financial assistance to pursue their studies smoothly through merit cum means scholarship. The scholarship is awarded @ Rs. 1000/- per month, excluding Rs. 250/- as electricity & Water charges upto 20% resident of hostel.

8.7.4 Earn While You Learn (EWYL) Scheme

A unique scheme of the University aimed to encourage and support students to make them self reliant and also develop better cooperation and leadership skills. Under this scheme, a student may be assigned a task for a maximum of 10 hours per week. This includes assistance in library, computer Lab., laboratory, faculty department/centre, office, placement section, residence halls and other specific jobs identified time to time. Students are also provided with an experience certificate by the University.

Period – July 2013 to June 2014

S No	Name of the Student	Enrolment No.	Department/Centre
1	Hariom Kumar	CUB1309112006	M.A Comm. and Media Studies – 1 st Semester
2	Keshav Kumar	CUB1301112006	M.A Development Studies– 1 st Semester
3	Rakesh Kumar	CUB1303122008	M.Sc Bioinformatics – 1 st Semester
4	Sonu Kumar	CUB1303122015	M.Sc Bioinformatics – 1 st Semester
5	Afsal C.P	CUB1302312001	M.Sc. Computer Science – 1 st Semester
6	Swaraj Roushan	CUB1302312016	M.Sc. Computer Science – 1 st Semester
7	Suman Kumari	CUB1311124029	BA BEd (1 st Sem)
8	Neha Kumari	CUB1311124019	BA BEd (1 st Sem)
9	Vandana Kumari	CUB1311124031	BA BEd (1 st Sem)
10	Kundan Kumar	CUB1311124011	BA BEd (1 st Sem)
11	Anshu Kumari	CUB1311124006	BA BEd (1 st Sem)
12	Ranjeet Kumar	CUB1313125031	BA LLB (H) (1 st Sem)
13	Lokdeep Mourya	CUB1313115008	BSc LLB (H) (1 st Sem)
14	Kunal Kumar	CUB1313115021	BSc LLB (H) (1 st Sem)
15	Kundan Kumar	CUB1313115007	BSc LLB (H) (1 st Sem)
16	Debarata Hazra	CUB1208112002	MA English (3 rd Sem)
17	Binita Kumari	CUB1208112001	MA English (3 rd Sem)
18	Rashmi Kumari	CUB1208112003	MA English (3 rd Sem)

19	Abhishek Kumar	CUB1308112002	MA English (1 st Sem)
20	Priyanka	CUB1308112008	MA English (1 st Sem)
21	Ravi Ranjan	CUB1301412003	MA Political Science & IR (1 st Sem)

8.7.5 Attendance Based Merit Scholarship

The University has an innovative scheme to increase student's attendance. University encourages and supports students who have 100 percent attendance during a semester. All such students are paid a book grant up to Rs. 1000/- at once.

Sl. No.	Name of the student	Enrollment No.	Programme	Semester
1	Anand Kashyap	CUB1301112001	Development Studies	1 st
2	Abhishek Dwivedi	CUB1201112001	Development Studies	3 rd
3	Snigdha Kalyani	CUB1301212010	MA Economics	1 st
4	Ankit Raj	CUB1302112002	MSc Mathematics	1 st
5	Anuradha Sinha	CUB132112003	MSc Mathematics	1 st
6	Aparna Das	CUB1302112004	MSc Mathematics	1 st
7	Kumari Sweta Srivastava	CUB1302112010	MSc Mathematics	1 st
8	Nitish Kumar Guru	CUB1302112011	MSc Mathematics	1 st
9	Sachindra Mohan Mishra	CUB1302112016	MSc Mathematics	1 st
10	Swastika Kumari	CUB1302112018	MSc Mathematics	1 st
11	Vivek Kumar Gupta	CUB1302112020	MSc Mathematics	1 st
12	Deepika Verma	CUB1202112004	MSc Mathematics	3 rd
13	Sucheta Sharma	CUB1202112010	MSc Mathematics	3 rd
14	Ashrita	CUB1301112005	Biotechnology	1 st
15	Manohar Kumar Mishra	CUB1303132007	Life Science	1 st
16	Praveen Kumar	CUB1308212005	Hindi	1 st
17	Binita Kumari	CUB1208112001	English	3 rd
18	Salma Zafar	CUB1301412004	Political Science	1 st
19	Shaily	CUB1301412005	Political Science	1 st
20	Ajay Kumar Das	CUB1301312001	Sociology	1 st
21	Aashutosh Kumar	CUB1202322001	MTech Comp. Science	2 nd

8.8 Co-curricular Activities/Sports

Games and sports help in achieving academic excellence and creativity. Keeping this in mind the University has provisions for both indoor and outdoor games. Besides the regular sports activities, annual sports events help them building and strategic preparations.

Sports Events

The University organized different Sports Events during the month of January 2014. The New Year 2014 began in a quite relaxing yet competitive way for the students as from the second week the University's Games and Sports Committee organised the Annual Sports events featuring games of

cricket, badminton (doubles), chess and carom. The sports events were full of excitement, while *cricket* kept the audience busy with fours, sixes, fall of wickets in beautiful deliveries, and the game of *badminton* too mesmerised the audience with interesting battle between shuttle and racket. The game of chess kept the players engaged in taking clever moves, on the other side *carom* thrilled the audience with its own fervour as well. Winners and runners of the games were given away trophies, cups, souvenirs and medals by Prof. Janak Pandey, Vice Chancellor CUB on the occasion of Republic Day Celebration held at University Guest House in Patna on 26th January, 2014.

Cricket

S. No	Award	Team / Player	Achievement
1	Winner	CUB Challengers, Captain – Rahul Kumar Giri, M. A Communication and Media Studies, IVth Semester	CUB Daredevils scored 124 runs in 20 overs on loss 7 wickets, CUB Challengers scored 125 runs in 17 overs on loss of 7 wickets and won the match by 3 wickets.
2	Runners Up	CUB Daredevils (Captain – Durgesh Kumar Keshav)	
3	Man of the Series	Abhishek Kumar Singh, M.Sc. Environmental Science, 4th Semester	Scored 123 runs and took 6 wickets
4	Man of the Match (Finals)	Rahul Kumar Giri, M.A. CMS, 4th Semester	Scored 35 runs and took 2 wickets
5	Best Bowler of the Tournament	Mohd. Aftab, M.Sc Environmental Science, 2nd Semester	Took 9 wickets in the tournament
6	Best Batsman of the Tournament	Abhishek Kumar Singh, M.Sc. EVS, 4th Semester	Scored 123 runs in the tournament

Badminton Doubles

S. No	Award	Team / Players	Achievement
1	Winner – Men’s Doubles	Amarjeet Kumar, M.Sc Life Science, 2nd Semester & Manish Kumar Tiwari, M.Sc Computer Science, 2nd Semester	Won the match in straight sets 15-09 & 15-05
2	Runner – Men’s Doubles	Manish Kumar, M.Tech Computer Science, 2nd Semester & Randheer Bagi, M. Tech Computer Science, 2nd Semester	Lost by 09-15 and 05-15
3	Winner – Women’s Doubles	Jyoti Kumari and Pragati Pallavi both students M.A. Communication & Media Studies, 2nd Semester	Won the match by 15-10, 10-15 and 15-09
4	Runner – Women’s Doubles	Neha & Sucheta Sharma, both students of M.Sc Mathematics, 4th Semester	Lost by 10-15, 15-10 and 09-15.

Chess

S. No	Award	Team / Players
1	Winner – Boys	Durgesh Kumar Keshav, MA. Economics, 2nd Semester
2	Runner - Boys	Mukesh Kumar, M.Sc. Biotechnology, 2nd Semester
3	Winner – Girls	Ruby, M.Sc. Environmental Science, 4th Semester
4	Runner - Girls	Bhavya Ankita, M.Sc. Environmental Science, 2nd Semester

Carrrom

S. No	Award	Team / Players
1	Winner – Boys	Durgesh Kumar Keshav, MA. Economics, 2nd Semester
2	Runner – Boys	Anni Kumar, M.Sc Life Science, 4th Semester
3	Winner – Girls	Randheer Bagi, M.Tech Computer Science, 2nd Semester
4	Runner - Girls	Swati Sinha, M.Sc. Life Science, 4th Semester

9. Statutory Authorities of the University

9.1 Members of the First Court

1. Smt. Meira Kumar, Chancellor – Chairman
2. Prof. Debdas Banerjee, Vice-Chancellor Central University of Bihar
3. Prof. A. Lakshminath, Vice-Chancellor, Chankaya National Law University, Nyaya Nagar Mithapur, Patna 800001
4. Prof. Ashok De, Director, NIT-Patna
5. Prof. D.M. Diwakar, Director, A.N. Sinha Institute of Social Sciences, Patna
6. Prof. Girish Kr. Singh, Director, AIIMS, Khagaule Patna
7. Dr. Sister Doris D'Souza A.C.Principal, Patna Women's College, Baily Road, Patna
8. Prof. Ajoy Kumar Singh, Retd. Prof. & Head, History Department, Patna University
9. Dr. Shukla Mohanty, Pro-VC, Kolhan University, Tata College Campus, Chaibassa, Jharkhand
10. Dr. Mohammad Zakaria, Principal, Karim City College, Jamshedpur, Jharkhand
11. Prof. Lalan Prasad Singh, Gautam Buddha University, Greater Noida, Uttar Pradesh
12. Prof. Ashok Kumar Singh, Professor and Head, Dept. of Chemistry, University of Allahabad
13. Shri Anand Kumar, Mathematician and Columnist (Super 30 Programme), Ramanujan School of Mathematics, Patna
14. Shri Venkata Siva Prasad Matta, Kakinada, Andhra Pradesh
15. Shri Merajothu Surya Naik, Advocate, Hyderabad, Andhra Pradesh
16. Shri Tapas Kumar Mitra, President, District Bar Association Jamshedpur, Jharkhand
17. Shri Harkara Venugopal Rao, Social Activist, Secunderabad, Andhra Pradesh
18. Shri Brahmadev Anand Paswan, Former Member of Parliament, Kankarbagh, Patna
19. Dr. Imtiaz Ahmad, Director, Khuda Bakhsh Oriental Public Library, Patna
20. Dr. Jandyala Prabhakar Rao, Professor, Centre for Applied Linguistics and Translation Studies, University of Hyderabad
21. Shri Satish Chandra Mishra, Advocate, Supreme Court
22. Mr. Kusha Hansdah, Jamshedpur, Jharkhand
23. Shri Abhayaanand, IPS, Former Director General of Police, Govt. of Bihar
24. Prof. R.P. Shastri, Former Head, Dept. of Music, Banaras Hindu University
25. Prof. Santosh C. Panda, Director, Delhi School of Economics, University of Delhi
26. Padmashri (Smt.) Sharda Sinha, Former Head, Dept. of Music, Women's College, Samastipur, Bihar
27. Prof. P.P. Ghosh, Director, Asian Development Research Institute, Patna
28. Prof. Y.C. Simhadri, Vice-Chancellor, Patna University, Patna
29. Shri Pranav Jha, Bokaro Steel City, Jharkhand
30. Shri Abbireddy Appareddy, East Godavari District, Andhra Pradesh
31. Prof. T.M. Mohapatra, Former Director, Dean, and presently OSD, Institute of Medical Sciences, BHU, Varanasi
32. Prof. M. Nehal, Registrar, CUB, Member Secretary

9.2 Members of Executive Council (as on date)

1. Prof. Debdas Banerjee, Vice-Chancellor, Chairman
2. Shri Satyanarayan Mohanty, Secretary, Dept of Higher Education, MHRD, Govt of India
3. Shri R.K. Mahajan, Principal Secretary, Dept of Education, Government of Bihar

4. Prof. Manas Bihari Verma , (Former Director, Aeronautical Development Agency, Bangalore) Chairman, Board of Governors, National Institute of Technology-Patna
5. Prof. Amita Chatterjee Professor Emerita, School of Cognitive Sciences, Jadavpur University, Kolkata – 700032
6. Prof. V.C. Pande, Professor, Department of Medieval & Modern History, University of Allahabad, Allahabad – 211002
7. Prof. Harish Trivedi , Former Professor and Head, Department of English, University of Delhi. Currently: Advisor, Academic Publication, University of Delhi
8. Dr. D.M. Diwakar, Director, A.N. Sinha Institute of Social Studies, Patna
9. Dr. Ram Kumar, Associate Professor, Centre for Environmental Sciences, Central University of Bihar
10. Dr. Rajesh Kumar Ranjan, Assistant Professor, Centre for Environmental Sciences, Central University of Bihar
11. Prof. Mohammad Nehal, Registrar & Ex-officio Secretary

9.3 Members of Academic Council (as on date)

1. Prof. Debdas Banerjee, Vice-Chancellor, Chairman
2. Prof. (Dr.) A. Lakshmi Nath, Vice-Chancellor, Chanakya National Law University, Patna
3. Prof. Seyed E. Hasnain, Distinguished Professor, Indian Institute of Technology-Delhi
4. Prof. Rajmani Prasad Sinha , Former Chairman, Bihar School Examination Board, Patna
5. Prof. Jandhyala B. G. Tilak , Professor & Head, Department of Educational Finance, NUEPA
6. Prof. A.K. Bhatnagar, (former Vice-Chancellor Pondicherry University), University of Hyderabad
7. Prof. Bijay Singh Mipun, Department of Geography, NEHU
8. Dr. C. L. Prabhavathi, Controller of Examinations, CUB
9. Dr. Ram Kumar, Associate Professor, Centre for Environmental Sciences, CUB
10. Dr. Rizwanul Haque, Associate Professor & Head, Centre for Biological Sciences (Biotechnology), CUB
11. Dr. Alok Kumar Gupta, Associate Professor and Head, Centre for Political Studies, CUB
12. Dr. Kamlanand Jha, Associate Professor and Head, Centre for Indian Languages (HINDI), CUB
13. Dr. R. Rajesh, Associate Professor and Head, Department of Computer Science, CUB
14. Dr. Kaushal Kishore, Associate Professor and Head, Centre for Education
15. Dr. Pradhan Parth Sarthi , Associate Professor and Head, Centre for Environmental Sciences, CUB
16. Dr. Rajesh Kumar Ranjan, Assistant Professor, Centre for Environmental Sciences, CUB
17. Dr. Vivek Kumar Jain, Assistant Professor, Department of Mathematics, CUB
18. Dr. Narsingh Kumar, Assistant Professor, Centre for Psychological Sciences, CUB
19. Ms. Anju Helen Bara, Assistant Professor, Centre for Development Studies, CUB
20. Prof. Mohammad Nehal, Registrar & Ex-officio Secretary

9.4 Members of Finance Committee

1. Prof. Debdas Banerjee, Vice-Chancellor & Ex-Officio Chairman
2. Joint Secretary and Finance Adviser MHRD, Govt of India or his / her nominee from Finance Bureau of MHRD not below the rank of Deputy Secretary
3. Joint Secretary (CU and L) of MHRD, Govt of India or his/her Nominee not below the rank of Joint Secretary to the Government of India
4. Joint Secretary (CU), UGC or any other Joint Secretary level Officer nominated by the Chairman, UGC
5. Dr. D.M. Diwakar, (Member, Executive Council, CUB), Director, A. N. Sinha Institute of Social Studies, Patna
6. Shri R.K. Verma, IA&AS, Finance Officer, Jawaharlal Nehru University, New Delhi 110 067
7. Shri R.D. Sahay, Former JS, MHRD, Govt of India
8. CMA Binod Kumar Pandey, Finance Officer and Ex-officio Secretary

10. Meetings of the Authorities

A total of 19 meetings of the statutory bodies were held during April 2013-March 2014. The number of meetings held for statutory bodies namely, Executive Council, Academic Council and Finance Committee were 10, 05 and 04 respectively.

11. Academic Activities

CUB organized a number of the events including workshops, seminars and conference during the year. Following are the details of the activities:

CENTRAL UNIVERSITIES COMMON ENTRANCE TEST (CUCET)

Central Universities' Common Entrance Test (CUCET) was conducted for candidates aspiring to admission to various UG, PG, MPhil and PhD Programmes for seven Central Universities namely Jharkhand, Jammu and Kashmir, Kerala, Rajasthan and Tamil Nadu including Central University of Bihar. CUCET 2013 was conducted through off line and online modes. Central Universities Common Entrance Test has been designed to provide a unique opportunity to students to take advantage of one common entrance test and choose the option of Higher Education at any of the participating Central Universities. Complete information about the courses, eligibility and other aspects of Central University of Bihar was made accessible to all students at www.cub.ac.in the official website of CUCET. Candidates had the option to submit their application in both online/offline modes. After completion of **CUCET 2013-14**, with the declaration of results, **Central University of Bihar** released a list of selected candidates for **Counselling** and admission to various programmes The Merit List was declared and selected candidates were admitted subsequently.

Prospectus Release Programme at Gaya

The prospectus of the Central University of Bihar was released at its temporary campus in Gaya on 4th April, 2013. The chief guest of the programme was Lt. Gen. G.S. Bisht, Vishisht Sewa Mdeal, Commandant, O.T.A., Gaya. Registrar Prof. M. Nehal welcomed the guests, and the presidential address was delivered by the CUB Vice Chancellor Prof. Janak Pandey. Among other attendees were Prof. Chakradhar Prasad Singh, VC Magadh University, Gaya, Mr. Vivek Kumar Singh, Commissioner, Magadh Division, Mr. J. K. Palit, Ex-Chairman, Shaasi Mandal, NIT, Kurukshetra and Mr. P.N.Prasad, Director, Green Field English School, Gaya. The programme concluded with the vote of thanks being proposed by Ms. Beauty Yadav, Asst. Professor, CUB.

Prospectus Release Programme at Patna

The prospectus of the university was released at Hotel Chankya in Patna on 12th April, 2013. Vice Chancellor Prof. Janak Pandey presided over the occasion and welcome speech was delivered by Registrar Prof. M. Nehal in which he gave an overview of the content mentioned in the prospectus. Prof. V.C. Pandey, senior professor, Dept of Medieval and Modern History, University of Allahabad said that CUB is functioning very well and appreciated the courses being taught in the university. Prof. Amita Chatterjee, founder member of Presidency University, Kolkata stated that CUB is following the best universities existing in India as well as abroad. Ms. Beauty Yadav, Asst. Professor compared the programme.

Media and Ethics: Special Lecture

Centre for Mass Communication and Media organized a special lecture on 13th April, 2013 by Mr. Aravind Pandey, senior IG, CID, Govt. of Bihar on Media and Ethics. In his lecture Mr. Pandey said that the media "fourth estate of democracy" ought to fulfill its responsibility with an ethical commitment. Citing the example of the US media he said after the bombing of the Twin Towers the American media didn't publish or telecast the gory photographs of dead. Dr. Kinshuk Pathak, Asst. Professor of the centre expressed his views on

moral issues pertaining to the media, focusing on two incidents which were rather worrisome. The lecture concluded with question and answer session.

3rd University Lecture Series

Central University of Bihar organized its 3rd University Lecture Series on 23rd April, 2013 at A.N. Sinha Institute of Social Studies, Patna in which Padmashree Prof. Seyed E. Hasnain, a distinguished Professor and Researcher of Biological Sciences at IIT Delhi was key speaker. A warm welcome address was delivered by Prof. M. Nehal, Registrar, CUB. The speaker was introduced by VC Prof. Janak Pandey, who also briefed about the purpose of organizing the University Lecture Series. Prof. Hasnain presented the recent scenario of TB in Indian and around the world. The faculty and students of the Centre for Biological and Environmental Sciences, CUB and many other participants from different institutions were also present along with renowned clinicians and TB activists. Dr. Pradeep Das, Director, Rajendra Memorial Research Institute of Medical Science (RMRIMS) chaired the technical session and convoked the presidential address.

A Lecture Series on “Churning the Earth: The Making of Global India”

A three-days lecture series on “Churning the Earth: The Making of Global India” was organised at the Central University of Bihar (CUB), BIT campus, Patna from 5th August – 7th August 2013. It was delivered by Prof. Aseem Srivastava. Prof. Srivastava is a specialist in Environmental Economics and has taught Economics at Universities in India and the US for many years.

Visit of Dr Athula Naranpanawa

Dr Athula Naranpanawa, Department of Accounting, Finance and Economics, Griffith Business School, Nathan Campus, Griffith University, Queensland, Australia visited the Centre for Economic Studies and Policy, CUB for a short period from 23rd September to 4th October, 2013 enriched CUB faculty. The purpose of his visit was to explore the possibility of working with the Centre for Economic Studies and Policy of the University on how climate change has been impacting agriculture in Bihar. Although collaboration is sought in research to begin with, he is also working on a proposal to extend the areas of collaboration to exchange programmes for faculty and students.

Fresher’s Welcome Programme

The Fresher’s Programme ‘Roobaroo-2013’ was organized on October 30th 2013 by students of Semester-IIIrd under the supervision of Dr. Richa Vatsa, the Coordinator of Cultural Activities Committee CUB it was a grand event. The Programme started with a welcome speech and felicitation by the Vice Chancellor and Registrar. Organised at Bhartiya Nritya Kala Mandir, for the first time, the University Anthem was sung outside the present university campus. The students of Semester-I and Semester-III, Ms. Suprobha Dey, Ms. Ragini Kumari, Mr. Prabhat Suman, Mr. Prabhat Kiran and Mr. Navin Kumar lent melodious voices to the rendition. Enjoyable and notable performances were *Bharat Darshan accompanied to the Naal* by Mr. Sudhanshu Kumar (M.Sc. Economic, Semester-I), a Sufi song *Sazda* by Ms. Suprobha Dey (M.Sc. Life Science, Semester-I) and a semi-classical dance performance by Sneha Kumari (M.Sc. Life Science, Semester-I), a solo drama act *Dayashankar ki Diary* by Mr. Nikhil (M.Sc. (CMS), Semester-I), a solo Western dance (lyrical hip-hop) by Mr. Imran Khan (M.Sc. Bio-technology, Semester-I), a speech by Mr. Vaisakh K. M. (M.Sc. Statistics, Semester-I), a solo dance performance by Ms. Aprajita Shila (M.Sc. (CMS), Semester-III) and a duet dance performance by Ms. Madhuranjana Gargi (M.Sc. Bio-technology,

Semester-III) and Mr. Uday Prakash (M.Sc. C.S. Semester-III). Ms. Suprobha Dey and Mr. Vaisakh K. M. were selected as Miss and Mister Fresher respectively. The Programme conducted by Mr. Adarsh Madhu, Ms. Priyanka Soren, Mr. Kanak Raj Kanak, Mr. Chandan Kumar and Ms. Aprajita Shila ended with a Vote of Thanks.

Symposium on Current Trends in Life Science

“Current Trends in Life Science” was the First Symposium organised by Life Science Programme on November 01, 2013. The symposium was conducted with the objective of giving a fillip to the responsibility of this newly formed department to motivate its first two batches to nurture, imbibe and inculcate a scientific approach, designing a path of interactive partnerships with renowned world class workforces in their own fields. The symposium began with the welcome speech being delivered by the Vice Chancellor Prof. Janak Pandey. Chief Guest Padma Shri Dr. Jitendra Kumar Singh, Director, Mahavir Cancer Sansthan, Patna, presented a talk on facts about Cancer and its current status in Bihar and in India. Guest lectures were offered by Dr. R.S. Singh, Scientist, Bihar Agricultural University, Sabour; Dr. Vahab Ali, Scientist, RMRI, Patna and Prof. M. Nehal, Registrar, CUB, Patna. Paramjeet Prabhakar of M.Sc. Biotechnology (IIIrd Semester) and Nandan Kumar of M.Sc. Bioinformatics (IIIrd semester) won the first and second prizes respectively in Poster Presentation while the first and second prizes in Oral presentations were won by Sonia Basak of M.Sc. Life Science (IIIrd semester) and Kumar Abhishek of M.Sc. Biotechnology (IIIrd semester) respectively.

Workshop on Photography

The Centre for Mass Communication and Media, CUB organized a four-day Workshop on Photography from 20th to 23rd November 2013. The workshop was conducted by an eminent photographer of the country Mr. Umesh Gogna. He trained students on skills and techniques in photography imparting them practical and theoretical knowledge of camerawork, shooting and cinematography.

A Workshop on Understanding the Needs and Emerging Trends in Industries and Research Organizations

Department of Computer Science, Central University of Bihar, Patna organized the workshop during 22nd – 23rd November 2013. The first day of the workshop started with the welcome speech by Dr. Prabhat Ranjan, Organizing Secretary of the Workshop and Assistant Professor in the Department of Computer Science. This was followed by the Keynote Address by Prof. Janak Pandey, Vice Chancellor CUB. Prof M. Nehal, Registrar, Central University of Bihar, felicitated the participants at the event by pointing out that research will have to move towards more user-friendly technology. The speakers and experts at the workshop were Dr. R. Rajesh (Head, Department of Computer Science CUB), Dr. D. Vijay Rao (Scientist-F, DRDO, New Delhi), Dr. P. K. Mishra (Director, School of Computer Science, Indraprastha University, New Delhi), Shri Atul Sinha (ITS, Managing Director, BELTRON, Patna, Bihar), Mr. Mrinal Singh (UNO Digital Lab), Mr. P.K. Sinha (Director, Centre of Excellence) and Mr. Piyush Singh (TCS). The workshop ended with a panel discussion on recent trends in Computer Science in which the experts Dr. D. Vijay Rao, Dr. P. K. Mishra steered discussion and debate with all the participants gathered for the occasion - Mr. P.K. Sinha, Mr. Piyush Singh, Mr. Mrinal Singh. The Vote of Thanks was proposed by Dr. Prabhat Ranjan.

4th University Lecture Series

The 4th University Lecture series was organised at A.N. Sinha Institute of Social Studies in Patna on 24th January, 2014 on the topic “India and Regional Cooperation in South Asia: Challenges and Opportunities” . Dr. Rajendra Govind Harshe, visiting Professor, Department of International Relations, Faculty of Social Sciences, South Asian University (SAU), New Delhi delivered the lecture on the topic revolving around international relations. A social scientist and a leading scholar of International Relations, Prof. Harshe said, Gun and fierce battles are not the solution of the grieving issues related to South Asia. In fact, with mutual cooperation and exchange of valuable resources the South Asian nations including India can move ahead with peace and prosperity. Dr. Harshe’s talk concluded with a positive hope of seeing prosperity in South Asia among the audience present inside the conference hall. Presiding over the talk, Pavan Kumar Verma, senior IFS and cultural advisor to Chief Minister of Bihar, appreciated the unique topic and said with this topic CUB has triggered a new debate among all especially the students and faculties which is beyond the grades. The guests were introduced by CUB VC Prof Janak Pandey , while vote of thanks was given by Registrar Prof Mohammad Nehal. Pro Vice Chancellor Debdas Banerjee was also present with Finance Officer Binod Kumar Pandey, while the lecture was conducted was Public Relation Officer Md. Mudassar Alam.

International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE) 2014

Department of Computer Science, CUB organized International Conference on Recent Trends in Computer Science & Engineering (ICRTCSE) during February 8-9, 2014. CUB Prof. Janak Pandey, vice chancellor CUB was the chief patron, while Dr. R. Rajesh and Dr. Prabhat Ranjan were the organizing secretaries. Invited Speakers of the conference included (1) Prof. A.K. Misra, Chairperson, IEEE Signal Processing and Computer Joint Chapter (UP Section) and associated with Department of Computer Science, MNNIT, Allahabad, (2) Dr. Raj Natarajan, CEO, Forum Communication Systems, Richardson, Texas, USA, (3) Shri Sanjeev K. Trivedi, Regional Manager (Govt.) – South Asia, Adobe Systems India Pvt. Ltd., (4) Mr. Subham Chatterji, Business Manager, Academic Sales, SAS, (5) Mr. P.K. Sinha, Director, Astric Solutions, (6) Prof. Sanjay Misra, Prof. of Computer Science, Covenant University, Nigeria, (7) Mr. Ajeet Kumar Gupta, Manager ATM, Local Head Office, SBI Patna. The session chairs of the conference were (1) Prof. D.K. Singh (NIT Patna), (2) Dr. Rajiv Misra (IIT Patna), Dr. Ravi Shankar Singh (IIT BHU, Varanasi), Dr. D.S. Kushwaha (MNNIT, Allahabad), Dr. Somnath Tripathi (IIT Patna), Dr. Samrat Mondal (IIT Patna). ICRTCSE was attended by practitioners, corporate people, researchers and students to present ongoing research and development works in Computer Science and engineering areas. There were more than 102 online submissions and after rigorous review process 40 papers were selected for publication. Along with CUB the papers were received from institutions like NIT, IIT, and many technical institutions run by centre and state governments.

Book Release & Seminar

CUB VC Prof. Janak Pandey’s book entitled **Psychology Education and Training – A global perspective** was released by Dr. Girishwar Misra, senior professor of Psychology at University of Delhi on 11th February, 2014 at Seminar Hall of Patna campus. The book edited by Rainer K. Silbereisen, Pierre L. – J. Ritchie and Janak Pandey was published by Routledge Taylor & Francis Group, *London and New York* in 2014. Earlier the lecture by Prof. Girishwar Misra on the topic was quite informative that catered the interest

of audience. A pioneer in developing 'Indian Psychology', Prof. Misra spoke about social psychology and its impact in the society.

Training Programme on Basic Bioinformatics

A two day training programme on "Basic Bioinformatics" organised by Department of Bioinformatics (DOB) at CUB's Patna campus during February 17 - 18, 2014. The programme was organized with aim to increase the awareness among the researchers and the Master students about the bioinformatics tools and databases in contemporary biological research. A Nano Technology expert Dr. Raghvendra Singh presently based out of France and Dr. Sachidanand, a Chemoinformatics expert delivered the talks along with many other experts.

Fourth Development Meet

Centre for Development Studies, CUB organised the Fourth 'Development Meet 2014' at the ICAR Complex, Patna during February 21-22, 2014. Organised on the theme is '*Institutions, Growth and Development*' this two day witnessed the presence of social scientists, development practitioners and researchers from G.B. Pant Institute of Social Sciences, JNU, Central University of Gujarat, Institute of Economic Growth, University of Delhi, Hyderabad University and other reputed institutes and universities. Inaugurating the meet, CUB VC Prof. Janak Pandey reiterated the vision of the university alongwith sharing the fact that the university started its academic curriculum in 2009 with postgraduate programme in Development Studies. On first day of the meet in his presidential speech Prof. Achin Chakraborty, Director of Institute of Development Studies, Kolkata explained the critical significance of major questions like equity, entitlements and capacity building in achieving the development goals. Other key speakers attended the meet were Prof. N C Narayanan from Indian Institute of Technology Bombay, Prof. S. Borbora from Indian Institute of Technology, Guwahati and Prof. Sumangala Damodaran from Ambedkar University, New Delhi. This meet provided a forum for the Academia-NGO interface and reputed NGOs like Aide-et-Action, Oxford, CARE, PRAXIS, Aga Khan, Greenpeace, Dhan Foundation, Pathfinder, PCI for presenting their work on this occasion.

National Seminar on Gandhian thoughts

Centre for Conflict Research and Social Harmony, CUB organised a seminar entitled "Gandhi, Peace, Social Harmony, Conflict Prevention and Resolution" in association with GITAM University, Visakhapatnam during February 24-26, 2014 at Hotel Delta International in Bodh Gaya. The chief guest of seminar was Prof. K. Ramakrishna Rao, an eminent Gandhian scholar and Chancellor GITAM University. Other key speakers attended the seminar included Prof Anirudh Prasad, Dept of Rural Management & HOD, Research & Publication, Xavier Institute of Social Service (XISS), Professor Parmanand Singh, Dept of Gandhian Thought, Tilka Manjhi Bhagalpur University (TMBU), Shri Jai Kumar Palit, former Chairman Jan Shikshan Sansthan (JSS), Gaya, Sister Sudha Varghese and Prof Dilip Shah, Retd Prof & Head, Mahatma Gandhi Dept of Rural Studies, Surat. Dr. Alok Kumar Gupta, HOD, Centre for Political Studies, CUB, Gaya & Co-ordinator of Centre for Conflict Resolution and Social Harmony very efficiently organised the two day seminar as the co-ordinator.

Inaugural Lecture of Babu Jagjivan Ram Chair

With the aim to carry ahead the legacy of Babu Jagjivan Ram, former Deputy Prime Minister who dreamed off “seeing one India and equality among countrymen”, the inauguration of a chair named after him took place on 26th February, 2014 at Hotel Delta International in Bodhgaya. The inauguration happened in presence of internationally acclaimed Economist Padmashree Prof. S.K. Thorat as chief guest and presided by CUB VC Prof. Janak Pandey. Prof. Thorat, Chairman of Indian Council of Social Science Research (ICSSR) delivered the inaugural lecture entitled “Emerging Issues of Human Development: Lessons from Development Perspectives of Babu Jagjivan Ram”.

Term of First Vice Chancellor came to an end

The first day of March witnessed the end of erstwhile period of Prof. Janak Pandey who had joined the university on March 2, 2009 as first vice chancellor. A notification issued by the CUB Registrar Prof. Mohammad Nehal on 1st March confirmed the completion of tenure of Prof. Pandey and in-turn Prof. Debdas Banerjee, Pro-Vice Chancellor had taken the charge as second Vice Chancellor of CUB.

National Conference on Aquatic Ecosystem

On the occasion of World Water Day the Centre for Environmental Sciences (EVS), CUB organised a national level conference entitled “Aquatic Ecosystem and Management” during March 21-23, 2014. The purpose of the conference was to highlight the critical issues related to aquatic organisms, environment and society. The conference showcased the lifecycle of aquatic organisms and the factors affecting them. Many experts and researcher scholars from across the country presented their papers related to the critical issue during the three day conference. Prof. Ram Kumar, Head Centre for EVS CUB and Dr. Rajesh Ranjan, Asst. Professor of EVS were organising secretary of the conference and both of them presented their papers as well.

12. Celebration of Important Events

Independence Day

CUB celebrated Independence Day on 15th August 2013 with pomp and panoply. The Vice Chancellor along with students, faculty, administrative staff, their families and other dignitaries were present on the occasion. Following the felicitation from the Guard of Honour and flag hoisting by the Vice Chancellor a cultural programme based on the nationalistic leitmotif was presented by CUB students.

Fifth Foundation Day, Seminar and Orientation Day

Central university of Bihar celebrated its Fifth Foundation Day on 1st September 2013. On this auspicious occasion the university organized a series of programmes. It started with a Seminar organized by Center for Mass Communication and Media on the topic: Reframing the Role of Media in Development. Renowned social thinker Shri Sachidanand Sinha, Prof. BP Sanjay, VC of Central University of Tamil Nadu, Prof. Sunil Kant Behera, HOD, Berhampur University, Shri Pushpraj, roaming journalist and Santosh Sarang, Head of the community channel Appan Samachar were the key speakers at the seminar.

At the Seminar Prof. BP Sanjay, Special Guest for the day highlighted the plight of any new university saying that the gestation period of a new university was quite long and that Central University of Bihar in these four

years had achieve great heights. On this occasion VC, Prof. Janak Pandey reaffirmed his commitment towards the growth of the university. This was followed by a cultural program by students. On this occasion a noted musicologist and violinist Prof. R P Shastri accompanied by his team performed a musical recital keeping the audience mesmerized by his mellifluous presentation.

Alongside the Seminar, the Orientation Programme for new students took place in the auditorium where the Vice chancellor Prof. Janak Pandey and the Registrar of the university Prof. M Nehal welcomed the new students and briefed them about university culture, rules and regulations and the examination system of the university. After lunch hour began the Foundation Programme where the Chief Guest Shri Sachidanand Sinha stressed that the university was a place where new ideas and ideology took birth and the Central University of Bihar would travel that way.

हिन्दी दिवस समारोह

हिन्दी दिवस के अवसर पर 14 सितंबर, 2013 को बिहार केन्द्रीय विश्वविद्यालय के सेमिनार हॉल में हिन्दी दिवस समारोह आयोजित किया गया । कार्यक्रम की अध्यक्षता बिहार केन्द्रीय विश्वविद्यालय के कुलपति प्रो० जनक पाण्डेय ने की । स्वागत बिहार केन्द्रीय विश्वविद्यालय के कुलसचिव प्रो० मो० नेहाल ने किया ।

First Convocation of CUB

Central University of Bihar on *Wednesday, 26th September, 2013* celebrated a very important milestone: *The First Convocation*. On the historic occasion of the First Convocation of the very First Central University of Bihar, the Chief Guest of the ceremonial function, Shri M. Hamid Ansari expressed his happiness at being in Patna on the momentous occasion. The Chancellor of Central University of Bihar, Smt. Meira Kumar, also articulated her joy at being able to felicitate the young brigade of the First Convocation awardees, as they epitomised a freshness of vision, passion and values committed to the upright mission of nation building. Altogether 156 student-graduates of the first three batches since CUB's inception in 2009 were privileged to receive blessings from the dignitaries visiting Central University of Bihar.

Gandhi Jayanti Celebrations

The birth anniversary of the Father of the Nation, Mahatma Gandhi was observed on 2nd October 2013 by Central University of Bihar. The occasion was presided over by the Honourable Vice-Chancellor Prof. Janak Pandey who urged all to incorporate truth and devotion in life, those perennial human values championed by Mahatma Gandhi.

Third World Mental Health Day

Celebration of Mental Health Day was instituted by World Federation of Mental Health in 1992. Later World Health Organization (WHO) joined hands with the movement. The Theme of 2013 World Mental Health Week was "Cognition and Mental Health in Older Adults." To earmark the significance of the occasion and to spread awareness about mental health the Centre for Psychological Sciences, Central University of Bihar organised the Third World Mental Health Day on 10th of October, 2013. Professor Sagar Sharma, a prominent clinical psychologist, former Dean of H.P. University, Shimla, delivered the special lecture series on Cognition and Mental Health in Older Adults.

National Education Day

National Education Day was celebrated in CUB with enthusiasm. Rich tributes were paid to Maulana Abul Kalam Azad the first Education Minister of free India, on the occasion of the 125th birth anniversary of Maulana Azad. On the occasion Prof. M. Nehal, Registrar Central University of Bihar welcomed the Chief Guest and the audience. The Chief Guest for National Education Day, Director of Gandhi Sangrahalaya, Patna Mr. Razi Ahmad exhorted CUB students to follow the path of Maulana Azad. Vice-Chancellor Prof. Janak Pandey presided over the National Education Day celebrations. In his speech he reiterated that there is no other politician in Indian history that can equal Maulana Azad. Saket Mani, a First Year student of CMS presented a slide show on Maulana Azad's life and ideology. Dr. Kinshuk Pathak Head-in-Charge of Centre for Mass Communication and Media conducted the function and proposed the vote of thanks.

Republic Day

Central University of Bihar (CUB) celebrated the 65th Republic Day at its Patna and Gaya campuses with great fervour and gaiety. The Republic Day celebration at University Guest House in Patna started with guard of honour offered to CUB VC Prof Janak Pandey. The national tricolour was hoisted by the CUB Vice Chancellor Prof. Janak Pandey, and celebrations proceeded ahead with singing of national anthem followed by the University Anthem "Kala Sanskriti, Sarvgyan ki bahe jahan vidhya dhara" sung by the students. The Republic Day celebration in Patna showcased impressive speeches, patriotic songs singing, poem recitation, beautiful dance performances and skits revolving around the importance of education. Likewise, at Gaya campus the flag was hoisted by Professor in Charge Dr. Alok Kumar Gupta. After the flag hoisting, the Republic Day celebration at Gaya campus featured cultural programmes presented by the students. The winners and participants of previous events and competitions namely Parwaaz 2013, Yuva Divas and Quiz competition were given away award and certificates. A kavi sammelan (poetry session) was also organised at Gaya Campus.

Foundation Stone Laying Ceremony

The foundation stone of 300 acres campus of Central University of Bihar (CUB) was laid down by Chancellor Smt. Meira Kumar amidst great enthusiasm and fervour at Panchanpur in Gaya district of Bihar. Shri P. K. Shahi, Education Minister of Bihar was present as distinguished guest on the occasion along with Shri Sushil Kumar Singh, Member of Parliament, Aurangabad, Shri Hari Manjhi, Member of Parliament, Gaya and Dr. Anil Kumar, Member of the Legislative Assembly, Tikari were also present in the foundation stone laying ceremony of CUB. Prof. Janak Pandey, Vice-Chancellor was present on the occasion along with members of the Executive Council, Pro-Vice Chancellor Prof. Debdas Banerjee, Registrar Prof. Mohammad Nehal, Finance Officer Shri Binod Kumar Pandey, Controller of Examination Smt. C. L. Prabhavati, faculty members, staff and students of the university. A large number of people from the neighbouring areas and other parts of Bihar also gathered at the CUB's upcoming campus to witness the grand celebration. Dr. M.M. Pallam Raju who was the guest of honour of the day couldn't attend the foundation laying ceremony due to protocol issue in Bihar. Smt. Meira Kumar started her speech by praising Prof. Janak Pandey, the founder vice chancellor for his continuous efforts in last five years to bring the university on the path of prosperity. She expressed her happiness after laying down the foundation stone. She said, today is a remarkable day for the people of Bihar as the university is certainly going to bring a wave of change in the field of education. Education Minister of Bihar, Shri P. K. Shahi highlighted the role of CM Shri Nitish Kumar and his government for providing all possible support to the university. Shri Shahi urged the Lok Sabha speaker to start

the infrastructure development work at CUB site immediately. Other distinguished guests Shri Sushil Kumar Singh, Member of Parliament, Aurangabad, Shri Hari Manjhi, Member of Parliament, Gaya and Dr. Anil Kumar, Member of Legislative Assembly, Tikari have also given speeches and shared their views about the establishment of CUB at Gaya. Earlier in his welcome speech, CUB Vice Chancellor Prof. Janak Pandey expressed his gratitude to the chief guest Smt. Meira Kumar for being generous and supportive to the university. He also thanked the Lok Sabha speaker for laying down the foundation stone of the university. The foundation stone laying ceremony commemorated with vote of thanks of Prof. Mohammad Nehal, Registrar Central University of Bihar.

CUB ke Safar ke Paanch Saal

CUB celebrated its Five Year of foundation on 10th March, 2014 at its Patna campus inside the auditorium of BIT. Entitled as “CUB ke safar ke paanch saal”, the five years of CUB was marked by a get-together of university fraternity including some special guests who had played a vital role in the university’s establishment. The chief guest of the event was Prof Janak Pandey, former and founder Vice Chancellor of CUB. A bit emotional Prof. Pandey shared the memorable instances as the founder vice chancellor in five years. After the speech of Prof Janak Pandey, the students of Centre for Mass Communication and Media presented a skit portraying the major events from the university’s five years. CUB has also called few of its founder members namely, T. N. Sinha, Seema Fatima and Shrikant Mishra. CUB faculty members Dr. Rizwanul Haque, Head, Centre for Biological Sciences and Dr. Prashant, Centre for Environmental Sciences shared their personal feelings about the university and Prof. Pandey. The programme commemorated with vote of thanks given by Prof. Mohammad Nehal, Registrar CUB. He praised Prof. Pandey’s contribution to the university and said his association with CUB as founder vice chancellor has been pathbreaking and under his guidance and vision the university had achieved several milestones.

13. Appointments

During the year of report, the following appointments have been made in the University on the post shown against their names, on approval of the respective Competent Authorities on recommendations of the Selection Committees :-

13.1 Appointment of Faculty Members

27 Faculty members have been appointed during the period on regular basis enhancing the total teaching strength to 72 (Out of 72, 08 faculty members had left the University)

13.2 Appointment of Non-teaching staff

53 Non-Teaching employees have been appointed during the period on regular basis enhancing the total strength to 98 (Out of 98, 06 non-teaching employees had left the University)

14. Publication and Participation in Academic Activities

Prof. Janak Pandey, Vice Chancellor, CUB has attended a number of events related to academia as key speaker and expert of the particular field at national level. His presence in the events and calculative speeches has been highly appreciated by the organisers and the participants, which has in-turn brought CUB into national picture as well.

1. He has attended the Book Release and Felicitation Ceremony organised by Center for Gandhian Studies, GITAM Institute of Management at Visakhapatnam on October 4, 2013. The book entitled “Consciousness, Gandhi & Yoga: An interdisciplinary East-West Odyssey of K. Ramakrishna Rao” was released by Dr. M.V.V.S Murthi, Hon’ble President, GITAM University. After the book release Prof. Pandey had addressed the guests and spoke about Rao’s intellect, ignited mind, and priceless contribution towards Indian and Universal Psychology. He said, “Celebrating his 80th birthday is like worshipping a scholar extra-ordinary, teacher, researcher, administrator and above all visionary institution builder. He has been all through his career worked beyond the existing boundary. As a student of Philosophy he combined Psychology got interested in paranormal phenomena.”
2. He was the keynote speaker at the International Conference entitled “Cognition, Emotion and Action” held at Indian Institute of Technology (IIT) Gandhinagar, Gujarat during December 6 – 8, 2013. Prof. Pandey had inaugurated the conference on Friday, 6th December, 2013 in the morning. In his keynote address, Prof Pandey who himself was instrumental in setting up the first-ever centre for cognitive sciences in India at the Allahabad University said, “Cognitive science is an interdisciplinary enterprise interfacing Psychology, Neuro science, Computer Science, Philosophy, Linguistic and Anthropology. All these require crossing the boundaries and taking macro perspectives setting up new questions.” “So Cognitive Science seeks answers to many fundamentals and long standing questions about nature of mind and mental processes,” added Prof. Pandey. The conference was organised with the aim to brainstorming on the research that improves the understanding of the human beings of the many interactions between cognitive and emotional processing or (and) between cognition and action. Through the conference the organisers wished to generate passionate discussions and collaborations around the conference theme that cuts across disciplines and methodologies.
3. Prof. Janak Pandey, Vice Chancellor, CUB attended the Conference of Vice Chancellors of Central universities held at President’s House during February 6-7, 2014. Hon’ble President of India, Shri Pranab Mukherjee hosted the conference as Visitor of Central Univerisities as well. This was the second such conference of Central University Vice Chancellors convened by the President since assumption of office. The agenda of this year’s conference were action taken on the recommendations made in last year’s conference, steps to improve quality of education in Central Universities by creating inter-linkages with industry, interfacing with ranking agencies and use of technology for access, equity and quality in higher education. Prime Minister Dr. Manmohan Singh, Union Minister of Human Resource Development Dr. M.M. Pallam Raju and Ministers of State for Human Resource Development Shri Shashi Tharoor also participated in the conference.

Dr. Samir Kumar Jalal, Deputy Librarian

Publications

1. **Jalal, S.K.** (2013). Scientometric Mapping on Webometrics: A Global Perspective. *INFOLIB: A Quarterly Bulletin of Jharkhand Information & Library Association*, 6(1-2), 22-27 (ISSN:0974-686).
2. Participated in Second National Knowledge Network (NKN) Annual Workshop on “Enhancing Research Collaboration through NKN” held at Bangalore during 17-19 October 2013.

Dr. Mayank Yuvaraj, Assistant Librarian

Academic Activities

1. Submitted PhD thesis on Jan 10, 2014 at Banaras Hindu University titled “Problems and prospects of implementing cloud computing technology in Indian academic libraries”. Successfully participated and defended in PhD viva in June 2014.

Books Published

1. Singh, Ajay Pratap and **Yuvaraj, Mayank** (2013). Information, Communication and Society. New Delhi: Ess Ess Publications. ISBN: 9788170006930
2. Singh, Ajay Pratp and **Yuvaraj, Mayank** (2014) Dewey Decimal Classification: a practical approach. New Delhi: TTPP. ISBN: 9788170194941

Articles in Journals

1. Yuvaraj, Mayank (2013) Seeding the ideas of cloud computing in libraries. *Asia Pacific Journal of Library & Information Science*. 3(1), 84 – 95 (ISSN: 2289607)
2. Yuvaraj, Mayank and Singh, Ajay Pratap (2013) Open Source Cloud Computing software and solutions for libraries. *International Journal of Information Dissemination and Technology*. 3(1), 42-48. (ISSN: 22295984)
3. Yuvaraj, Mayank (2013) Resource sharing in libraries on cloud landscape: potentials and paradoxes. *International Journal of Cloud Computing and Services Science*. 2 (5). 363 – 376. (ISSN: 20893337)
4. Yuvaraj, Mayank (2013) An Empirical study of cloud computing applications in libraries using Diffusion of Innovation Theory: determining factors of adoption. *Pearl: a journal of Library and Information Science*. 7 (4). 191 -199. (ISSN: 09737081)
5. Yuvaraj, Mayank (2013) Determining factors for adoption of cloud computing by Indian Academic Librarians. *Journal of Knowledge & Communication Management*. 3 (2). 165 -180. (ISSN: 22777938)
6. Yuvaraj, Mayank (2013) Examining librarian`s behavioural intention to use cloud computing applications in Indian central universities. *Annals of Library & Information Studies*. 60 (4). 260 – 268. (ISSN: 09752404)
7. Yuvaraj, Mayank (2013) Cloud Computing Applications in Indian Central University libraries: A study of librarians` use. *Library Philosophy and Practice (e-journal)*. (ISSN:15220222) url: <http://digitalcommons.unl.edu/libphilprac/992>

Chapters in Edited Books

1. Yuvaraj, Mayank (2014) Green Libraries on Cloud computing Platform. *In Encyclopaedia of Information Science and Technology*. Edited by Mehdi Khosrow-Pour. USA: IGI Global. 808-819. (ISBN: 9781466658882)

2. Yuvaraj, Mayank (2014) Status of university libraries in India. *In Encyclopaedia of Information Science and Technology*. Edited by Mehdi Khosrow-Pour. USA: IGI Global. 232 - 241. (ISBN: 9781466658882)
3. Yuvaraj, Mayank (2013) Cloud libraries: issues and challenges. *In Computing and Virtualization Technologies in Libraries*. Edited by Sangeeta N. Dhamdhere. USA: IGI Global. 316 -338. (ISBN: 9781466646315)
4. Singh, Ajay Pratap and Yuvaraj, Mayank (2013) Social Networking based Ubiquitous electronic libraries on cloud platform. TAV Murthy Festschrift volume. London: Digital Information Research.

Participation in Conference/Seminar/Workshop/Symposia

1. Singh, Ajay Pratap and Yuvaraj, Mayank (2013) Scenario of Indian Agrarian Librarianship: an exploratory study. IFLA conference.

Mr. Devendra Kumar Mishra, Jr./ Semi Professional Assistant

Publications

1. Mishra, Devendra Kumar; Gawde, Manisha and Solanki, Madhu Singh (2014) Bibliometric Study of PhD thesis in English. *Global Journal of Academic Librarianship*. 1 (1). 19 – 36.

Md. Arshad Ali (Jr./ Semi Professional Assistant)

Participation in Conference/Seminar/Workshop/Symposia

1. Participated in International Conference in Digital Library (ICDL) held on November 27-29, 2013 at TERI, New Delhi.