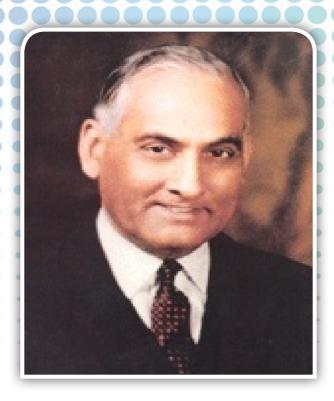


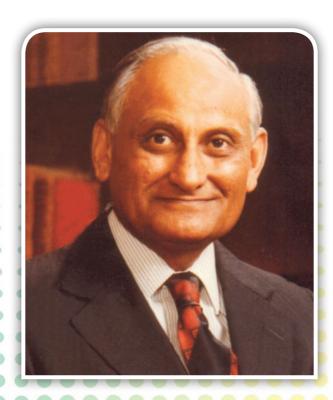


BIRLA INSTITUTE OF TECHNOLOGY

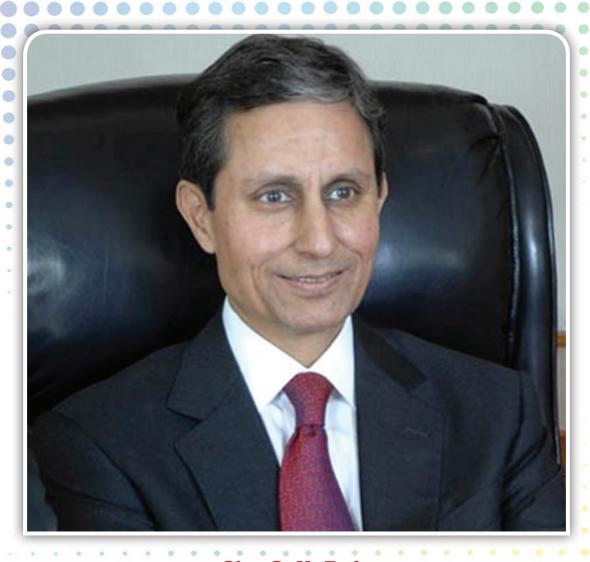
(Deemed University) Mesra, Ranchi - 835215, Jharkhand, India



Shri B. M. Birla
Founder of the Institute



Shri G. P. Birla
Former Chairman of the Board of
Governors



Shri C. K. Birla
Chairman of the Board of Governors



A INSTITUTE OF TECHNOLOGY

(DEEMED UNIVERSITY)

MESRA, RANCHI-835215

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Activity Report of the Institute The Vice Chancellor

Birla Institute of Technology, Mesra, Ranchi founded by the philanthropist, industrialist Late Shri B.M. Birla in 1955, attained the status of a Deemed University in the year 1986. The rich legacy of the founder has been carried forward by his son Padmabhushan Late Shri. G. P. Birla and his grandson, the present chairman of Board of Governors, Shri C. K. Birla by continuing his commitment to provide high quality education to further our country's capability for quicker all round progress.

The Institute, in conformity with the vision of its distinguished founder has grown from strength to strength and has indeed spread its wings both in terms of the number of programmes as well as geographical spread. The institute has seven off campuses in India: Jaipur, Noida, Allahabad, Patna, Deoghar, Kolkata and Lalpur and two off shore campuses: Ras Al Khaimah and Muscat. The Institute has been fortunate to have blessings and support of our present Chancellor, Hon'ble Dr. Syed Ahmed, the Governor of Jharkhand and the former Chancellors as well.

BIT, by virtue of the quality of its academic programmes, has consistently been ranked amongst the leading technical Institutes of the country. Academic programmes are offered in as many as 17 academic disciplines. At present the total faculty strength stands at 710 and students' strength above 11,000 including the campuses in India and abroad.

The Institute has initiated many schemes to strengthen quality education to the students, career advancement of faculty members, progression of students towards higher education and generating career opportunities through the campus placement programme in reputed organizations across the globe. The Institute has been working dedicatedly towards the vision of producing quality technical graduates, competent teachers, scientists and leaders for the academics, research, industry and administration under the guidance and dynamic leadership of our Chairman.

A brief multidimensional activity of the Institute during the period is as follows:

1.0 Board of Governors

The Forty eighth meeting of the Board of Governors was held on 7th May, 2014 and the forty ninth on 26th November 2014. The following issues were discussed and implemented

- Reorganisation of Departments and Appointment of Heads of Departments: The Board noted that as per a. its decision, 3 Departments have been merged reducing the total number of academic Departments from 20 to 17, and, in 13 of these Departments, new HoDs have been appointed, initially for a period of one year with a maximum tenure of three years as per the provisions approved earlier by the Board.
- Maternity Leave: As desired by the Board, the information on the number of female employees who b. availed maternity leave during the last three years was presented to the Board. The Board considered the proposal for providing maternity leave of 180 days with full pay to all female employees including even those on contract. The Board directed that only regular female employees be entitled for 180 days of maternity leave whereas contractual employees shall continue with the provision of 90 days of maternity leave.

ANNUAL REPORT

- c. Provision of Additional Increments upon Obtaining Ph.D.: The Board noted the implementation of the provision for additional increments upon obtaining the Ph.D. degree w.e.f. 8th June 2013(the date of the Technical Council meeting in which this was proposed and accepted in the last BoG meeting).
- d. Introduction of Awards: The following awards were approved for conferment on Foundation Day (15th July) every year by the Chairman or his nominee. B.M. Birla Institute Chair Professor, G.P. Birla Distinguished Services Professor, BIT Excellence in Applied Sc., BIT Excellence in Engg. Sc., BIT Distinguished Alumnus, BIT Best Teacher, BIT Best Researcher, BIT Best Non Teaching Employee, BIT Best Student Scholar, BIT Best Student Sportsperson, BIT Best Student Performer, BIT Best Coach, BIT Best Hostel, BIT Best Colony BIT Best Non Teaching Employee Child Scholar
- e. The Board directed that the proposed B M Birla (BMB) Lecture on Education and G P Birla (GPB) Lecture on Technology be renamed as BIT Lecture on Education and BIT Lecture on Technology respectively.
- f. Creation of a new Department: "Department of Humanities & Social Science" to cater to the need for humanities and social science subjects in the curriculum of various UG and PG programmes.

2.0 Academic Achievements

- The Department of Architecture has been ranked 8th as per Outlook magazine in 2014.
- The Department of Chemical Engineering & Technology has been identified for support under National Mission on Food Processing (NMFP), Ministry for Food Processing Industries for the introduction of M.Sc. (Food Technology) programme and has been sanctioned a major grant of Rs. 1 Crore.
- Department of Pharmaceuticals Sciences & Technology has been identified for DST-FIST-II support.
- The Department of Production Engineering has been identified for support under FIST-II programme of DST, SAP of UGC and NCP of AICTE.
- Department of Remote Sensing is now a FIST-DST sponsored Department and has also been supported by UGC SAP. It is also covered under TEQIP-II
- The Department of Space Engineering and Rocketry has been identified for support under SAP (DRS-II) programme of UGC, Govt. of India in level II
- The BIT off campuses in Deoghar and Patna received AICTE approval in June, 2014

2.1 R & D Activities of the Institute

The Institute is committed to high end R&D activities supporting it through Institute fellowship and travel grants for attending National and International seminars, symposia and conferences.

During 2014 – 15, 117 and 9 faculty members have been supported financially to attend National and International Seminars respectively. 33 Ph.D. scholars received Institute Research Fellowship.

The high level of research, conducted by Faculty members, Scientific Officers and Research Scholars, has been recognised by the State / National/International funding agencies like UGC, CSIR, DST, DAE, BRNS, ISRO, DRDO, ARDB, DBT, AICTE, NAMPET, C-DAC, ICAR, Govt. of Jharkhand, BMBF etc. through sanctioned sponsored projects and consultancies.

The Institute's research achievements are reflected by the following data:

Publication in International Journals 233 Publication in International Proceedings 108 Publication in National Journals 20 : Publication in National Proceedings 28 : **R&D** Projects Granted 13 On-going R&D Projects 84 **R&D Projects Completed** 17 Books Authored/ chapters/edited 10 Patent Granted / Filed 2

2.2 Infrastructure Development

Keeping in line with the expansion of its academic programmes, the Institute has continued its efforts to consolidate academic and infrastructural support in the form of equipment, learning resources and space. A few of them are as follows:

- During 2014 15, Institute undertook a massive drive to legitimize all softwares being used in the Institute.
 In view of this the Institute obtained 2500+ cal licenses from Microsoft. This was followed by the Institute obtaining 180 licenses from Adobe India. This is one of the largest investments made by an academic institute in legalizing software in a single year.
- Department of Bioengineering procured Gel Dryer with Vacuum pump
- Department of Chemical Engineering & Technology procured Forced Draft Tray dryer, Gas Purification & Control, Cylinder filled with zero air gas, Electronic Balance, Aluminium Lids & Aluminium Pans, Pressure regulator for nitrogen gas, Side Table, Split AC 20 Ton, Water proof multi-parameter testers, Continuous Distillation Column, Deep Freezers, Junkers gas calorimeter, Desktop Computer and Spectra Analyzer
- Department of Civil and Environmental Engineering procured COD Digester, Jar Test Apparatus
- Department of EEE procured Basler ace GigE Vision Area Scan Camera, Air Circuit Breaker and accessories, Power measurement System, Antenna and its hardware and software, Solar PV Module, 3-phase IGBT Based Inverter, Micro-controller Kit, Smart Energy-meter, Smart grid related softwares, 2 Area-3 phase network system and Pressure flow and level Controller with PLC
- Department of Physics procured R. F. Magnetron Sputtering, D33 meter, UV-Vis Spectrometer
- Department of Space Engineering & Rocketry procured DC Power Supply, Muffle furnace, Vacuum Oven, STA Sample Carrier System, Nitrogen Gas Regulator, Fog Machine, Ultra Isolation Transformer
- At RAK offshore campus, new workshop and laboratory have been set up for Mechanical Engineering Department
- BIT off campus Deoghar procured Fresnel's bi-prism setup, Optical Spectrometer and PSIM software
- BIT off campus Kolkata procured NeuroSky Mind Wave

2.3 MoU / Collaborations

- Department of Bio-Engineering signed Expression of Interest with
 - a) Max-Planck-Institute for Biophysical Chemistry, Department of Neurobiology Goettingen, Germany
 - b) Department of Agronomy, Food, Natural Resources, Animals and the Environment, University of Padova, Italy
 - c) Biohydrometallurgy Lab, RWU Group, MEF Division, CSIR-National Metallurgical Laboratory, Jamshedpur
 - d) Centre for DNA Fingerprinting and Diagnostics (CDFD), Nampally, Hyderabad Department of Genetics, Osmania University, Hyderabad
- Two research scholars, Dr. S.S. Rajput and Mr. A. Kumar visited Moscow University, Russia for collaboration work under DST-RFBR project of Prof. S. Keshri
- Faculty of the Department of Civil & Environmental Engineering are coordinating and working at International levels with Stanford University, USA; UNEP and IGSNRR, Beijing China, ICIMOD, Nepal and Edith Cowan university, Australia

2.4 Consultancy

- Department of Chemical Engineering & Technology was consultant to Minor Irrigation Department, Govt of Jharkhand during January to November, 2014.
- Department of Mechanical Engineering was consultant to Green Power System Jamshedpur for Testing of submersible pump during September 2014
- Dr. C. Jeganathan and Dr.Kirti Avishek were consultant to IWMI, Sri Lanka for Drought Vulnerability and prototype assessment for Bihar and Maharashtra for the period June 2014 to May 2015

2.5 New Programmes / Revisions

The Institute has started / revised the following programmes at the main campus as well as at the off campuses:

- M.Sc. Biotechnology was started in July 2014 in the Department of Bio Engineering
- The Bachelor of Architecture syllabus was modified to:
 - a) A new subject AR 8311 Sustainability and Built Environment was included in the 8th semester.
 - b) One subject from 8^{th} semester [AR 8303] is shifted to 6^{th} semester as AR 6409 Conservation and Heritage Management
 - c) One subject AR 6303 Pre- Fabrication & Modular Co-ordination is removed from the syllabus.
- Department of Chemical Engineering & Technology has added new course of Integrated M.Sc. in Food Technology from 2014 onwards.

2.6 Visits to Universities / Institutes / Research Laboratories / Industries for Conference, Workshops etc. in India & Abroad

A few faculty members visited various Institutes and R & D organizations in India and abroad to deliver lectures and for Research Collaborations.

- Dr. Bappa Acherjee of BIT off campus Deoghar acted as a Member of Technical Program committee, The 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Shanghai, China, 2014.
- Dr. Soumya Banerjee of BIT off campus, Deoghar was a Resource person & Speaker at International Workshop on Machine Learning Algorithms and Data Analytics sponsored by ACM India Council, IEEE Computer Society, IEEE Education Society at Thapar University, Patiala, 3rd June -13th June 2014.
- Dr. P. R. Thakura delivered an invited Talk on VLSI Design and Power Electronics Summer School on Digital VLSI IETE Ranchi Chapter on June 17, 2014.
- Dr. Bhaskar Karn was invited as Resource Person in Workshop on Cross-Cutting Issues of Institutional & Academic Capacity Development at VBU, Hazaribag, Jharkhand on November 1, 2014
- Dr. Gopal Pathak delivered an invited talk at DIT, Dehradun during August 4-8, 2014.
- Dr. B. N. Sinha, Professor & Head, visited De Montfort University, Leicester, UK to review his collaborative UGC-UKIERI project.

3.0 Campus Placements

The Campus Recruitment Programme 2014-15 is over which generated more than 1200 offers with several multiple offers.

Recruiters on Campus were a good blend from all major sectors - Consulting, Retail, Power and Infrastructure, Telecom, Automobile, Heavy Engineering, IT Product, IT Services and others. And many more to come like Tata Power, Hyundai, Jusco, Samsung, Exide, Gmmco, NBC Bearing, Reliance Industries, Tata Steel etc.

As of now the average salary for the BE students is INR 6.7 lacs per annum and the highest compensation is INR 21.7 lacs offered by Directi.

Technical Education Quality Improvement Programme, Phase -II

Birla Institute of Technology, Mesra, Ranchi has been selected in TEQIP-II. Following activities were carried out during the period

- Development of Electric Drive Laboratory and upgradation of GIS Laboratory and Computer Laboratory
- Teaching and Research Assistantships
- Faculty and Staff Development
- Institutional Management Capacity Enhancement
- Finishing school
- E-enabled learning

5.0 Visits by AICTE and Personnel from other Organisations

Delegation from AICTE and other eminent personalities visited BIT and its off campuses to share their expertise with teachers and students. That includes

- Dr. Kapil K. Tripathi, Scientist 'E', Vigyan Prasar, DST, GOI visited Department of BioEngineering to deliver a lecture on "Science Communication" on July 28, 2014.
- Dr. Aakash Goyal, (PhD, FICN, FSAB), Senior Chickpea Breeder and Integrated Gene Management Program, ICARDA, Rabat Institute, Rabat, Morocco visited Department of BioEngineering to deliver a lecture and to discuss different scholarship and job opportunities in Industries abroad on September 04, 2014.
- Dr. S. G. Chatterjee, University of SUNNY, USA delivered Invited talk at Department of Chemical Engineering & Technology in July 2014
- Dr. Avijeet Sarkar of Michigan Molecular Institute, USA delivered Invited talk at Department of Chemical Engineering & Technology in November 2014
- A delegation of AICTE visited BIT off campus Deoghar during May 2014 in response to the application submitted to the council for affiliation. The campus was recognized as an 'AICTE affiliated institute'
- Dr. Nicola Marchetti, Trinity College, Ireland visited Department of ECE for Invited Talk on Science perspective: 5G on August 22, 2014
- Dr. Nausad Alam, AMU visited Department of ECE for One day Tutorial on Robust Nano scale circuit Design on November 11, 2014
- Dr. Surendra Pal, renowned Space Scientist and president IETE visited BIT off campus Jaipur as Chief Guest in Induction programme organized for new BE students on August 11, 2014
- AICTE nominee Dr. Ranjan Ghosh of IIM Kashipur and Dr. S.N. Biswas visited BIT off campus Patna for approval of MBA Programme in June 2014
- AICTE delegation visited BIT off campus Patna for Renewal of BE Course

6.0 Award / Distinction / Fellowship / Membership / Honours Received

Faculty

- Dr. D. M. Pandey became Jury Member for District Level DST INSPIRE Program scheduled at Sant Robert Higher Secondary, Sindoor, Hazaribag, Jharkhand on August 11, 2014, Editorial Board Member of 'Austin Journal of Biotechnology and Bioengineering' of AUSTIN PUBLISHING GROUP, USA and Organizing Committee Member of 6th World Congress on Biotechnology, India scheduled at November 30 to December 02, 2015 HICC-Hyderabad, India
- Dr.Sudip Kumar Sahana was Semi-Finalist in "Google Online Marketing Challenge", a worldwide event.
- Dr. Vijay Nath of Department of ECE was in top 6 of Cadence Design Contest-2014 held during July 2014
- Dr. Ritesh Kumar Keshri of Department of EEE was Chair, Conference Activities, Technical committee for Automotive Technologies, Industrial Electronics Society IEEE, Chair, Sub-committee for Electric/Hybrid Electric/Fuel Cell Electric Vehicles TCAT-IES-IEEE and Nominated as Chair for Technical Track on Electric

Transportation/Transportation Electrification 42nd IEEE Industrial Electronics Conference IECON 2015 Yokohama Japan.

- Dr. Abhinav Dinesh, Director, BIT off Campus Jaipur was Invited as chief Guest and to deliver key note lecture in the All India Seminar of Interdisciplinary Coordination Committee of Institute of Engineers on the theme: Innovative Application in Nano Technology. The seminar was held at Jaipur on May 31 June 1, 2014 and also honoured as distinguished academician in the Rajasthan by the Education Minister of Rajasthan in the function organized by Lion's International Club on the occasion of Teacher's day on 5th September, 2014
- Dr. R T Goswami, Director, BIT off campus, Kolkata became Chairman, Computer Society of India, Kolkata Chapter
- Dr. S Chaudhuri and Dr. Ambar Dutta of BIT off campus , Kolkata became MC Member, Computer Society of India, Kolkata Chapter
- Dr. V. S. Rathore of Department of Remote Sensing became Reviewer for International Journal for Advancement in Rem. Sen. GIS & Geog.
- Dr. C. Jeganathan of Department of Remote Sensing became Editor-In-Chief for an International Journal of Advancement in Remote Sensing, GIS and Geography (IJARSGG), awarded a Prestigious NASA-SERVIR research project by ICIMOD to execute a Project related to Agriculture Product Development over Hindu-Kush-Himalaya using Time-Series Satellite Data, Invited by Director, IIT Kharagpur to contribute in their International Summer Winter Term Educational Programmes as a National Expert under the course "Geostatistical Modelling" conducted by the Centre for Oceans, Rivers, Atmosphere and Land Sciences (CORAL), IIT-Kharagpur, Invited by Director, Indian Institute of Remote Sensing (IIRS, ISRO, Dehradun) to contribute as an external expert member under Scientist Promotion Committee
- Dr. N. Patel of Department of Remote Sensing became Visiting Professor at Department of Geomatics, University of Cape Town (UCT), South Africa in September-October, 2014, Member of the Scientific Committee, 5th International Workshop of the EARSeL Special Interest Group "Geological Applications" Remote Sensing and Geology "Surveying the GEOsphere", 19-20 June 2014 Warsaw, Poland, Visited the North East Forestry University, Harbin, P. R. China to attend the 7th Editorial Board Meeting of the Journal of Forestry Research in August, 2014
- Dr. A.P. Krishna of Department of Remote Sensing became Reviewer Water Resources Management, Reviewer - International Journal of Geosciences and Member, Editorial Board - International Journal of Advanced Remote Sensing and GIS
- Dr. J. K. Prasad of Department of Space Engineering & Rocketry became Vice- President, Fluid Mechanic
 & Fluid Power Society of India, FMFP Society of India 2014-15 and Member of Core Group, Aerospace
 Division, IE(I), 2014-15

Students

- Ms. A. Sharan (B.E. Biotechnology 2011 Batch) was awarded Cargil Global Scholarship, at Cargill Inc. Minnetonka, Minneapolis, USA from July 27 - August 02, 2014Mr. C. Banerjee (Ph.D. scholar) received Young Scientist Award, Association of Microbiologist of India (AMI 2013)
- Department of Architecture BIT Mesra's Students were ZONASA 2014 -2nd Overall Winners amongst 26 participating colleges at NIT Patna

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- Vaibhav Saxena of Department of Architecture won the first ETHOS NASA Scholarships 2014
- Sovan Kumar Patra, T K Gaurav of Department of Chemical Engineering & Technology Obtained 1st Prize, in Green Tech, Reflux 2.0 Annual Chemical Engineering Symposium(2014) IIT Guwahati, Obtained 2ndPrize in Poster Presentation, Reflux 2.0 Annual Chemical Engineering Symposium(2014) IIT Guwahati, 2nd Prize in PDP Reflux 2.0 Annual Chemical Engineering Symposium(2014) IIT Guwahati
- Sovan Kumar Patra of Department of Chemical Engineering & Technology won 1st Prize in Online quiz, Reflux 2.0 Annual Chemical Engineering Symposium(2014) IIT Guwahati
- Avi Pandey of Department of Chemical Engineering & Technology won 3rd Prize in PETROFEST, organized by IIT Kharagpur
- Ramkrishna Kundu, Dipayan Ghosh, Jyoti Singh and Vijay Nath were in top 6 in Cadence Design Contest-2014 held during July 2014
- An Animated Short Film "A Tribute" made by Risabh Banskar, Rishabh Sainee, Hansjeet Duggal, and Shuchi Sharma of BIT off campus Jaipur has been honoured in Sikhnet Film Festival, New Jersey, USA

7. 0 Seminars / Symposia / Short Term Courses Organized

The Institute and it's off / off - shore Campuses organized many Seminars / Symposia / Workshops. Some of them are:

- Department of Mechanical Engineering organised NMICTE Workshop on Fluid Mechanics sponsored by IIT Kharagpur during May 20 – 30, 2014
- Department of EEE organised NaMPET, CDAC sponsored National Workshop on Power Electronics (NWPE-2014) during November 7 8, 2014
- \bullet BIT off campus Jaipur organised Summer Training Program on "Matrix analysis and its applications" for students of B.I.T Jaipur Campus during July 9 15 , 2014
- BIT off campus Jaipur organised Summer school on "VLSI Design using Cadence Tool Software" for students of B.I.T Jaipur Campus during May 19 31, 2014
- BIT off campus Kolkata organised seminar on "Grid, Cloud, Fog And Beyond" sponsored by TCS Innovation Lab on September 6, 2014
- \bullet BIT off campus Kolkata organised ROBO-TRYST '15 QUADCOPTER Workshop Series Cum Championship during December 6 7 , 2014
- BIT off campus, Patna organised Six Weeks Entrepreneurship Development Programme on Food Processing Technology during June 2 - July 12, 2014
- BIT off campus, Patna organised Six Weeks Entrepreneurship Development Programme on Food Processing Technology during June 16 July 25, 2014
- Department of Pharmaceutical Science & Technology organised CEP Committee of PCI meeting during September 3-5, 2014
- \bullet Department of Pharmaceutical Science & Technology organised QIP on Recent Advances in Biopharmaceutics during November 7 20 , 2014

- Department of Pharmaceutical Science & Technology organised QIP on Automation in Drug Discovery during November 21 December 4, 2014
- Department of Physics organised One Day Workshop On Solar Cell on May 15, 2014
- Department of Production Engineering organised training on "Machining" during June 23 27, 2014
- Department of Production Engineering organised One week STC on Internal quality enhancement programme through microteaching in the area of production engineering during July 7 11, 2014
- Department of Production Engineering organised ISTE-SRM STTP on Six sigma tools and applications during August 25 – 30, 2014
- Department of Remote Sensing organised 13th IIRS Edusat Course on "Basics of Remote Sensing, GIS and Global Navigation System" during August 4 – November 14, 2014
- Department of Remote Sensing organised International Summer Winter Term programme at IIT-Kharagpur during November 24 – 26, 2014

8.0 CSR & Students' Activities

The students showcased their talents and responsibilities by organising and participating in various programmes of social, cultural and technical in nature.

Few of them are listed here

- Chemical Engineers students Chapter at BIT, Mesra organized a guest lecture on two contrasting paradigms of Science by Mr. Siddharth G. Chatterjee. This Department also organized technical GD on 18th August, 2014.
- IETE conducted Workshop on Programmable Logic Controller (PLC) from 20th 22nd August 2014 and Workshop on Supervisory Control & Data Acquisition (SCADA) from 23rd- 24th August 2014.
- SAE Club organized basic Automobile Workshop for first year students from 27th and 28th August 2014. Apart from these, teams from SAE Club participated in national level events.
- Rulebook Quiz conducted by BAJA Student India Two groups of students participated (Team Firebolt) in the event held in the month of August and the teams secured 3rd and 5th position competing with 76 teams participating from all over India.
- Rulebook Quiz conducted by SUPRA SAE India Team Srijan participated in the event held in the month of June which saw participation of 94 teams from all over India and the Team secured 3rd position.
- Sports and Adventure Club conducted Disaster Management Training Program (DMTP) during 8th- 9th November 2014 by Sports and Adventure Club (SAC) along with EPAC.
- UNESQUO Club conducted Oratory Workshop during 25th-26th August 2014 primarily for the first years; the workshop was attended by more than 50 students.
- IET organised a C/C++ workshop, primarily for 2k14 batch teaching them the basics of programming. The workshop was organized in association with IEEE club from 21st to 23rd August 2014. IET also organized a Java Programming workshop from 18th to 20th November 2014.

• BIT off campus Deoghar celebrated the 126th Birthday Anniversary of Maulana Abul Kalam Azad as 'National Education Day' on 11th November 2014

9.0 NSS Activities

- Blood donation Camp has been organised with the help of Seva Sadan, Apollo Hospital, Irba and RIMS. 243 units of Blood were donated to above hospitals on 23rd August 2014
- Prabhat Pheri was organised on the eve of 15th August 2014
- On the eve of 15th August 2014 a programme was organised by NSS students in the adopted villages
 Rudia, Nawatoli, Humbai and Mesra to promote National pride among the school children and villagers. Quiz, speech and cultural programme were organised by village students.
- 283 plants were planted in the campus on 15th August 2014
- Cleanliness drive programme was organised by NSS students for campus on 19th October 2014
- A talk was organised by foreign delegates to BIT students regarding USA visa.
- A seminar was organised on 16th November 2014 by Bombay Stock Exchange and Consumer guidance society of India to NSS students.

10.0 National and International Exchange Programmes with Universities / Research Organizations

 Mr. Patrick Mueller from Mannheim University of Applied Sciences, Germany joined the MO - 2014 session of Computer Science and Engineering Department (one semester programme) as a student in the exchange programme with BIT Mesra ,Ranchi.

11.0 Sports Activities

Various sports activities were supported by the Institute and held in the Institute during the period.

Extramurals

• In "Inter Technical Sports Fest, Spardha – 14" organized by IIT – BHU, Varanasi during the period of 29th October to 04th November 2014 Wainbait Shylla won Bronze Medal in High Jump, Rajan Kumar Won Bronze Medal in Badminton and our Basketball team was semi-finalist.

Intramurals

- In Inter Hostel Football Tournament Hostel No. 06 won the Champion ship.
- Cross Country Race was organized on 18th October, 2014. Mr. Wainbait Shylla (BE/10534/2012) in Men Section and Ms. Tulika Tiwary (IMH/10003/2013) in Women Section won the race.
- Nikhil Khanna Trophy for Badminton was organized on 20th October 2014 in which Mr. Rajan Kumar and Mr. Chirnath secured first and second position respectively

12.0 Alumni Events

Alumni Lecture Series

Mr. M.M. Singh, Chief Mentor, Maruti Suzuki Group was a part of the Alumni Guest Lecture Series. The event held on the July 22, 2014 in the CAT auditorium and witnessed an enthusiastic response from the students. He addressed many issues and shared his views on manufacturing sector and its burgeoning potential to transform lives. Mr. Singh expressed his joy on being back in BIT after such a long time.

Book Launched by Alumni

Mr Ajay Pandey, an IRS Officer, 1983 – 87 batch of BIT Mesra visited the campus on 14th August 2014 to launch his novel 'Resonance' and read a few excerpts which is making waves among the literary circles of this country.

13.0 Award of Degrees

During 25th convocation held on 12th December 2014 a total of 2552 students were awarded Degrees and Diplomas in various disciplines, out of which 39 scholars were awarded Ph.D. Degree, 902 Post Graduate Degree, 1446 Graduate Degree and 165 students were awarded Post Matriculation 3 years Diploma.

INTRODUCTION



The Main Building at BIT, Mesra, Ranchi

The Institute was established as an All India Institute of Technical Education by the renowned philanthropist and visionary industrialist, Late Sri B. M. Birla in July 1955. Initially it was started as an affiliated college of the erstwhile Bihar University and later in 1960 upon creation of new universities in the state; its affiliation was transferred to Ranchi University. In pursuance of the recommendation of the Education Commission, Government of India (1964 – 1966) and on the basis of the report of a joint Selection Committee of the UGC and AUDIT, in March 1972, the Institute was granted the status of an 'Autonomous' College by making special provision in Bihar State University Act. The chancellor of the University of Bihar made the rules for its governance.

The achievement of the Institute in terms of research and excellent academic programme led to its attaining the status of a Deemed University under section 3 of the UGC Act in August 1986.

The Institute has constantly improved on its technical facilities as well as in academics in order to keep pace with the fast changing technological scenario, thereby acquiring a pride of place amongst the institutions offering technical education in the country. This Institute celebrated the Golden Jubilee of its establishment in the year 2005 reaffirming its commitment to the cause of higher education.



The R&D Building at BIT, Mesra, Ranchi

Administration

B. I. T. Mesra is a "Deemed University" under Sec. 3 of the U. G. C. act 1986. It functions under the overall supervision, direction and control of a high powered Board of Governors, comprising representatives of the Ministry of Education, Government of India, the U.G.C, the State Government, the Chancellor, the A.I.C.T.E, The Hindustan Charity Trust and the Institute Faculty. The Governor of the state of Jharkhand is the Chancellor of the Institute. Shri C.K. Birla is the Chairman of the Board of Governors. The composition of the Board of Governors is given in Annexure – II.

The Academic Council decides the academic policy of the Institute. It controls and approves the curriculum, the courses and the examination results. It appoints committees like Regulation Committee for Under – Graduate and Post – Graduate Courses, Semester Programme Coordination Committee, Admission Committee, Scholarship Committee, Students Welfare Committee etc. and Departmental Board of Studies to look into specific academic matters arising from time to time. The teaching, training and research activities of various Departments at the Institute are constantly under review for both facilities and standards. The Vice Chancellor of the Institute is the Chairman of the Academic Council. The members of the Academic Council have been enlisted in Annexure – V.

The Finance Committee gives financial advice to the Institute in matters relating to building work as well. The composition of these committees have been given in Annexure –III & IV

The Main Campus, Mesra, Ranchi

The main campus of the Institute is fully residential and is spread over 780 acres. The main building of the Institute itself covers an area of 30,000 sq. mtrs. and accommodates the various research and training laboratories, administrative offices and class rooms.

The workshop annexe has built up area of 4,000 sq. mtrs. The laboratories and offices of the Department of Space Engineering & Rocketry are situated for security reasons in a sub – Campus, about half a kilometer away from the main building. The campus is self contained amidst well laid lawns, with its own protected water supply, marketing centre, dispensary, bank and schools. The first off campus was established in Ranchi city at Lalpur in 1976 with the spirit to support the continuing education programme for the working Engineers and professionals.

Institute	(Sq. Mtrs.)	
*	Main building & Administration block	3700
*	Class room & laboratory, Drawing halls, Staff room's etc	19300
*	Library block	2600
*	Mini – Auditorium	450
*	Space Engg. & Rocketry block (Including Explosive, Fuel cell & Cryogenic laboratory)	2490
*	Workshop sheds, General stores, Garage/ Godown	4880
*	Gymnasium	850
*	Indoor Badminton Stadium	1000

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*	Animal House	400
*	R & D Building	7200
*	Multi – Purpose Halls	785
*	Biotechnology Centre	3477
*	Polymer Engineering	744
*	Lecture Theatre – I	1143
*	Lecture Theatre – II	1535
*	Hotel Management Building	2835
*	Pharmacy Building	3220
*	Golden Jubilee Auditorium	3280

Residential Complex

*	Staff quarters in different categories	422
*	Residential complex for supporting services	116
	Guards, Dairy Shopkeepers, Washer man etc.	

Others

**	Consumer's co-operative stores	375 Sq. Mtrs.
*	NCC Block	400 Sq. Mtrs.
*	Rifle Firing Range	1 No.
*	NCC Parade ground	1 No.







Research Scholars' Hostel

Hostel

Staff Quarter

Guest Houses

The Institute maintains two Guest houses with a total number of 38 furnished rooms and one VIP Guest - House with 3 deluxe bedrooms to accommodate the Institute's Guests.

Auditorium

The Institute building houses an auditorium having capacity of 350 persons. Larger scale events are organised at Golden Jubilee Auditorium having capacity of about 3000 persons.



The Golden Jubilee Auditorium

Games & Sports Complex

The Institute has highly structured sports facilities for Indoor as well as Outdoor games. These are as follows:

*	Gymnasium including Multi – Gym	1
*	Stadium for Track & Fields for Sports/ Athletics	1
*	Cricket ground including net	2
*	Football ground	2
*	Hockey ground	2
*	Basket Ball courts	4
*	Volley Ball courts	6
*	Tennis courts	6
*	Badminton courts (three indoor & five outdoor)	8
*	Kho – Kho ground	1
*	Kabaddi ground	1

Dispensary cum Health Centre



Health Centre

Facilities Available

*	O.P.D Services :	8 A.M to 12 .00 Noon 4.00 P.M. to 8.00 P.M.
*	Emergency Services:	Round the clock
*	Total No. beds :	12 (Male -8, Female – 4)
*	X - ray:	
*	E.C.G:	
*	Oxygen Facilities	
*	Suction Machine Facility	
*	Medical Officers :	04
*	Pharmacists:	04
*	Dressers:	01
*	X – ray Technician :	01
*	Pathological Technician :	01
*	Staff Nurse :	01
*	Ambulance Facilities	
*	Pathological Lab Facility	
*	Immunization	

Visiting Specialists and Clinics

- Physiotherapy
- * Dentistry
- Pediatric Clinic **
- ** Homeopathic Clinic
- ** Eye & Skin Clinic
- * Anti Natal Clinic

Other Dispensary Related Activities

- ** Blood donation camp, Eye camp, Gynaecologycal camp are organized at frequent intervals.
- ** During emergency patients are referred either to RIMS or to any private Nursing Homes depending upon the situation as per necessity and convenience of the patient / attendants of patients
- ** Permanent faculties, staff members and students are covered by Group Mediclaim Policy in case of hospitalization
- Proposed Ultrasound machine facilities & ICU facility, isllation ward & Pathological Lab **
- Community Health services are also carried out by organizing Medical camp in villages. **

National Health Services like Pulse Polio immunization, TB, Leprosy, Blindness eradication programmes are organized regularly.

Shopping Centre

A well-maintained Cooperative Store provides the daily requirements of the campus residents. Over past few years, additional Shopping Complexeshave beendeveloped to meet the day to day sundry needs.



The Shopping Centre

Hostel Facilities for Students

Since the Institute is completely residential, it has eleven boys' and two girls' hostels for their accommodation. All rooms of the hostels are having Internet facility. Boarders participate in inter- hostel tournaments, indoor and outdoor games, various competitions and adventure trips. Each hostel is having its own well maintained dinning hall and a mess committee being managed by the students under the supervision of Hostel Wardens.

Hostel Accommodation

Hostel No	Single	Double	Triple	Total	Occupancy
1*	130	4	0	134	136
2*	137	2	0	139	139
3*	148	3	0	151	149
4*	142	6	0	148	145
5*	319	8	0	327	296
6*	296	0	0	296	283
7*	307	0	0	307	295
8#	245	57	13	315	580

Hostel No	Single	Double	Triple	Total	Occupancy
9#	15	325	9	349	649
10*	376	10	30	416	653
11*	376	10	30	416	450
12*	248	0	0	248	224
13*	265	0	0	265	258
14*	112	0	0	112	77
Total	3110	425	82	3623	4334

^{*}Boys' hostel # Girls' hostel

Academic Programmes

Institute is offering a number of programmes, introduced at different point of times, as detailed below

BIT Mesra Campus

Programme	Year of Introduction of the Programme	Duration of the Programme	Intake Capacity
Bachelor of Engineering Programmes			
Biotechnology	2002	4 Years	60
Chemical Engineering	2011	do	60
Chemical Engineering (Plastics & Polymer)	2011	do	60
Civil Engineering	1957	do	60
Computer Science & Engineering	1983	do	120
Electrical & Electronics Engineering	1955	do	60
Electronics & Communication Engineering	1964	do	120
Information Technology	2001	do	60
Mechanical Engineering	1955	do	90
Production Engineering	1964	do	60
Other Bachelor Programmes			1
Pharmacy	1972	4 Years	60
Architecture	1993	5 Years	40
Hotel Management & Catering Technology	2002	4 Years	60
Master of Engineering Programme			1
Electrical Engineering Specializations: Control System Power System Power Electronics Engineering	1964 2010	2 Years	42
Mechanical Engineering Specializations: Heat Power Engineering Design of Mech. Equipment	1964	2 Years	24
Civil Engineering Specializations: Soil Mechanics & Foundation Engineering Structural Engineering	1964	2 Years	24
Electronics & Communication Engineering Specializations: Instrumentation & Control Microwave Engineering Wireless Communication	1965	2 Years	42
Space Engineering & Rocketry Specializations: Rocket Propulsion Aerodynamics	1965	2 Years	24
Automated Manufacturing System	1996	2 Years	25

Programme	Year of Introduction of the Programme	Duration of the Programme	Intake Capacity
Software Engineering	2000	2 Years	15
Chemical Engineering	2013	2 Years	18
Computer Aided Analysis & Design (CAAD)	1999	2 Years	18
Master of Technology Programme			
Bio-Medical Instrumentation	2013	2 Years	18
Biotechnology	2010	2 Years	18
Computer Science & Engineering	1994	2 Years	16
Energy Technology	2010	2 Years	18
Environmental Science & Engineering	2002	2 Years	18
Information Security	2010	2 Years	18
Information Technology	2013	2 Years	18
Nano Science & Technology	2010	2 Years	18
Remote Sensing	1997	2 Years	18
Master of Pharmacy Specializations:	1000	2 years	96
Pharm. Chemistry Pharmaceutics	1983 1983		
Pharmacology	2004		
Pharmacognosy	2002		
Clinical Research	2009		
Quality Assurance & Regulatory Affairs	2010		
Master of Urban Planning	2006	2 Year	12
Master of Science Programmes			
Bio Informatics	2006	2 Years	20
Geo Informatics	2006	2 Years	20
Biotechnology	2014	2 Years	30
Chemistry	2009	2 Years	15
Mathematics	2009	2 Years	15
Physics	2009	2 Years	15
Master of Business Administration (MBA) Specializations: Marketing Finance System Human Resource	1980	2 Years	120
Master of Computer Applications (MCA)	1984	3 Years	60
Integrated M.Sc. Specializations: Chemistry Mathematics & Computing Physics Food Technology	2011 2011 2011 2014	5 Years	40 40 40 40

Courses / Programmes Offered at Other Campuses

Courses / Programmes	Allhabad	Deoghar	Jaipur	Kolkata	Lalpur	NOIDA	Patna	Muscat	RAK
BBA	*		*	*	*	*		*	*
BCA	*		*	*	*	*		*	
BBE						*			
B.Sc.(A&M)			*			*			
MBA	*		*	*	*	*		*	*
MCA	*		*	*	*	*			
MAD			*			*			
M.Tech.(CS)	*			*		*			
MBA (PT)	*					*			
M.Tech (CS) (PT)	*			*	*	*			
ME(WC)				*					
ME(WC)(PT)				*					
M.Tech.(BT)				*					
IMBA					*				
IMCA					*				
MIT					*				
MTM					*				
BE		*	*				*	*	*
EMBA								*	*
BCA(Hn.)								*	
BBA(Hn.)								*	
IEngg.									*
B.ARCH.							*		*
B.COM									*
Dip.Engg.									*
I.M.Sc.							*		

Programmes leading to Doctor of Philosophy

The Institute offers research programmes leading to Ph. D. degree in all disciplines.

Students Enrolment

During the academic year 2014 - 2015, a total of 12123 students were registered in various courses. The programme – wise enrolment is given below.

Sl. No.	Course	No. of Students	
1.	Bachelor of Engineering	5703	
2.	Bachelor of Architecture	359	
3.	Bachelor of Pharmacy	190	
4.	Bachelor of Hotel Management & Cat. Tech.	105	
5.	Bachelor of Computer Application	1046	
6.	Bachelor of Business Administration	1507	
7.	BBE	95	
8.	IMBA	404	
9.	IMCA	223	
10.	I.M.Sc.(Chemistry)	34	
11.	I.M.Sc.(Maths)	80	
12.	I.M.Sc.(Physics)	58	
13.	B. Sc. (A & M)	164	
14.	IMBE	12	
15.	B.Sc.(Food Technology)	12	
16.	Master of Business Administration	380	
17.	Master of Computer Applications	530	
18.	Master of Pharmacy	86	
19.	Master of Engineering	391	
20.	Master of Technology	375	
21.	M.Sc.(Applied Chemistry)	16	
22.	M.Sc.(Applied Physics)	12	
23.	M. Sc. (Mathematics)	05	
24.	M. Sc.(Bio Technology)	25	
25.	I.E	21	
26.	M. Sc. (Bio-informatics)	12	
27.	M. Sc. (Geo-Informatics)	08	
28.	M.Sc. (Animation & Design)	22	
29.	MUP 10		
30.	EMBA 46		
31.	B.COM	52	
32.	Ph.D.	79	
33.	Diploma	61	
	Total	12123	

Admission during 2014 - 2015

During the academic year 2014-15, total number of students admitted at BIT main campus was **1296.** The branch wise breakup is given below. Admission in PG Programmes

SI. No.	Cours	Course			No of Students Admitted	Permanent Withdrawal/ T.F.	No Admis	
1.	MBA	90	242	69	06	63	3	
2.	MCA	MCA		460	30	03	27	7
3.	ME Automated Manufact	uring Systems	25	20	12	03	09	9
4.	ME Chemical Engineering	g	18	10	02	-	02	2
5.	ME Civil Engineering	Soil Mechanics	12	53	11	-	11	
		Structural Engg.	12		11	02	09	20
6.	ME Electrical Electronics	Control System	12	48	10	-	10	
	& Engineering	Power System	12		11	-	11	
		Power Electronics	18		15	02	13	34
7.	ME Electronics &	Microwave	12	218	11	02	09	
	Communication	Inst. & Control	12		09	-	09	
		Wireless Com.	18		16	-	16	34
8.	ME Mechanical	Design of Mech.	12	88	09	01	08	
	Engineering	Heat Power Engg.	12		11	01	10	18
9.	ME Space Engineering	Aerodynamics	12	44	06	02	04	
	& Rocketry	Rocket Propulsion	12		07	01	06	10
10.	ME Computer Aided Ana	lysis & Design	18	11	03	02	0:	1
11.	ME Software Engineering	Į.	15	13	02	02	00)
12.	M.Tech Nano Science &	Technology	18	13	03	-	03	3
13.	M.Tech Bio- Technology		18	35	13	02	1	1
	M.Tech Bio Medical Instr	umentation	18	06	03	-	03	3
14.	M.Tech Computer Science	e & Engineering	16	171	19	03	16	5
	M.Tech Information Secu	ırity	18	28	18	04	14	1
	M.Tech Information Tech	nology	18	12	08	03	0;	5
15.	M.Tech Energy Technolog	37	18	07	01	-	0:	1
16.	M.Tech Env. Science & E	ngg.	18	15	09	02	07	7
17.	M.Tech Remote Sensing		18	21	08	-	08	3
18.	M.Sc. Chemistry		15	19	07	-	07	7
19.	M.Sc. Mathematics		15	11	06	01	05	5
20.	M.Sc. Physics		15	24	11	02	09	9
21.	M.Sc. Biotechnology		30	34	18	03	15	5
	M.Sc. Bio – Informatics		20	06	03	-	03	3
22.	M.Sc. Geo – Informatics		20	19	09	-	09	9
23.	M.Pharm		84	130	43	03	40)
24.	MUP		12	18	04	01	03	3
		Total	753	1776	426	51	37	7

Admission in UG Programmes

SI. No.		Course		No of Students Admitted	Permanent Withdrawal	Net A	dmission
	DE IOCAA		Seats			500	
1.	BE	JOSAA	750	646	48	598	
		NRI	+	39	01	38	
		EBC/OBC	NRI	49	02	47	683
		GOI (J&K)		01	01	00	
2.	B.Arch	JOSAA	40	34	02	32	
		NRI	+	03	00	03	37
		EBC/OBC	NRI	02	00	02	
3.	B. Pharm.		60	09	00		54
4.	HMCT		40	22	01		21
5.	Integrated	M.Sc. Chemistry	40	23	03		20
6.	Integrated M.Sc. Physics		40	34	04		30
7.	Integrated M.Sc. Mathematics		60	41	03		38
8.	Integrated	M.Sc. Food Tech.	30	13	04		09
	Total:		1060	912	66		892

Admission in Ph.D. Programme

During the session 2014 - 2015, total number of research scholars admitted in Engineering, Science, Pharmacy and Management was 79. The details are given below:

SI. No.	Roll No.	Name	Title
Depa	rtment of Applied Che	emistry	
1	PhD /AC/10001/2014	Mr. Nandkishore Thombare	Modification of Polysaccharides/resins and their application for development of new products for environmental remediation.
2	PHD/AC/10002/2014	Ms. Shipra Raj	Development of Nanostructured Metal Oxides and Their Energy Applications
3	Ph.D/AC/10051/2014	Mrs. Pinki Pal	Synthesis of polyacrylamide grafted polyvinyl pyrollidone (PVP-g-PAM) and its application
4	Ph.D/AC/10052/2014	Ms. Dipti Kumari	Synthesis of polyacrylamide grafted carboxymethyl inulin (CMI-g- PAM) derivatives and its application
5	Ph.D/AC/10053/2014	Ms. Shikha Awasthi	Formation of Corrosion resistant coating through pulsed electrodeposition technique
6	Ph.D/AC/10054/2014	Mrs. Sarika Verma	Synthesis and X-ray crystallographic studies of heterocyclic analogs to understand the role of non-covalent interaction in crystal Packing
Depa	rtment of Mathematic	s	
7	Ph.D/AM/10001/2014	Virendra Kumar	
Depa	rtment of Physics		
8	Ph.D/AP/10001/2014	Lalit Kumar Sharma	Study of spin injection and spin dynamics in semiconductors for spintronic applications.

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SI. No.	Roll No.	Name	Title
Depa	rtment of Architecture	,	
9	Ph.D/AR/10001/2014	Manalipa Dash	Impact of Urban Fabric on Microclimate, Redefining Building Development Regulation on Climatic Context
Depa	rtment of Bio Enginee	ring	
10	PHD/BT/10001/2014	Rashmi Gupta	Biosynthesis of Gold nanoparticles and its Application in Drug Delivery
11	PHD/BT/10002/2014	Summi Dutta	Study of leaf rust responsive microRNA in wheat (Triticum aestivum L.)
12	PHD/BT/10003/2014	Sneha	Molecular study on cocoonase gene and interaction mechanism between its encoded protein and target protein using in silico approach
13	PHD/BT/10004/2014	Mausam Kumar Ram	Identification and role of miRNA in regulation of drought specific genes in peanut (Arachis hypogaea L.)
14	PHD/BT/10005/2014	Noopur Khare	Chemosensitization of Breast Cancer Cell Lines using Natural Bioactive Compounds
15	PHD/BT/10006/2014	Rekha Kumar	Bioprocess development for efficient triclosan degradation
16	PHD/BT/10051/2014	Archana Singh	Microbial transformation of eugenol into other valuable methoxyphenol derivatives
17	PHD/BT/10052/2014	Reema Shukla Shyamsunder	Heart Rate Variability Analysis to Evaluate the Performance Status of Lung cancer Patients
Depa	rtment of Computer S	cience Engineering	
18	PHD/CS/10001/2014	Pranav Kumar	Finding multiple solutions using different sorting process
19	PHD/CS/10002/2014	Ashish Gupta	Designing Efficient Parallel Algorithm for Numerical Problems
20	PHD/CS/10003/2014	Mithilesh Kumar	Security in Cloud Computing
21	PHD/CS/10004/2014	Nagma Khatoon	Design & Analysis of efficient routing schemes for MANET
Depa	rtment of Civil Engine	ering & Environmental Scie	ence
22	PHD/CE/10004/2014	Girindra Kumar Sinha	
23	PHD/CE/10051/2014	SUMAN KUMAR	Corrosion of reinforcement steel in carbonated concrete made with blended cements.
Depa	rtment of Chemical E	ngineering & Technology	
24	PHD/CHP/10001/2014	Vibha Shree	Organo Phosphorous Based Flame Retardant for Epoxy and Vinyl Ester Resin
Depa	rtment of Electrical &	Electronics Engineering	
25	PHD/EE/10001/2014	Purnima Verma	Not Registered
26	PHD/EE/10002/2014	Soumit Ghosh	Reliability Evaluation of Phasor Measurement Unit (PMU) Considering Uncertainty
27	PHD/EE/10003/2014	Amit Kumar Sahoo	Development Of Soft And Evolutionary Based Algorithms To Direct And Inverse Modelling Problems

SI. No.	Roll No.	Name	Title
Depa	ertment of Electronics	& Communication Enginee	ering
28	PHD/EC/10001/2014	Sumit Kumar Chaubey	3D Medical Image Segmentation
29	PHD/EC/10002/2014	Sarah Asheev	Mimo Based Cooperative Communication for Secure WSN.
30	PHD/EC/10003/2014	Neha Rajak	Reconfigurable antenna using filter
31	PHD/EC/10004/2014	Shikha Swaroop Sharma	Reconfigurable Active Filter for Wireless Communication
32	PHD/EC/10051/2014	Archana Smrity Khalkho	
33	PHD/EC/10052/2014	Trideba Padhi	
Depa	rtment of Mechanical	Engineering	
34	PHD/ME/10001/2014	Tribhuwan Kishore Mishra	Microstructure and Abrasive Wear Properties of Thermal Sprayed WC-Ni Coatings
35	PHD/ME/10002/2014	Mohan Gupta	
36	PHD/ME/10051/2014	Manoj Kumar	
Depa	rtment of Managemen	it	
37	PHD/MB/10001/2014	Ravish Verma	Impact of Sustainable Business Practices on Brand Equity in the Indian Context "
Depa	rtment of Production	Engineering	
38	PHD/PE/10051/2014	Arbind Kumar	Microwave Sintered product (Broad Area)
39	PHD/PE/10052/2014	Avinash Kumar	Modelling and optimization of "Reconfigurable Manufacturing System
Depa	rtment of Pharmaceut	ical Science Technology	
40	PHD/PH/10051/2014	Sabyasachi Swain	
41	PHD/PH/10052/2014	Naresh Kumar	
42	PHD/PH/10053/2014	Dhruv Jha	
Depa	artment of Remote Sen	sing	
43	PHD/RS/10001/2014	Pranata Hazra	Remote Sensing Based Assessment of Glaciers and Lakes in the High Mountains of Sikkim Himalaya for Inferring Temporal Changes.
BITO	C, Jaipur		
44	PHD/CS/10011/2014	Mona Batra	Design and Analysis of Requirements Engineering Process Model for Software Development
BITO	C, Kolkata		
45	PHD/CS/10006/2014	Abhishek Bhattacharya	
46	PHD/CS/10007/2014	Surajit Goan	
47	PHD/CS/10008/2014	Arun Kumar Sadhu	
48	PHD/CS/10009/2014	Ananta Dev Pal	
BITO	C, Lalpur		
49	PHD/CS/10005/2014	Ritesh Kumar	Modernisation of clustering algorithms and their applications
50	PHD/MB/10003/2014	Amrita Verma	Career Creativity: Re-inventing HRM for corporate professionals in service sector

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SI.	Roll No.	Name	Title
51	PHD/MB/10004/2014	Gaitri Kumari	The economic potential of handicraft enterprises in rural Development: A study of Jharkhand
52	PHD/MB/10005/2014	Manas Ranjan Tanda	Antecedents and Moderaters of learning orientation of Managers and its Impact on Individual performance in a large organization
53	PHD/MB/10006/2014	Aparajita Choudhury	The effectiveness of Social Media in building customer and brand relationship
54	PHD/MB/10057/2014	Gopal Singh	A Critical Study of Productivity in Public Sector Undertaking with special Reference to Mining Industry.
55	PHD/MB/10058/2014	Sarbani Ghosh	A STUDY OF PSYCHOLOGICAL EMPOWERMENT AND ITS IMPLICATIONS ON THRIVING AT WORKPLACE.
56	PHD/MB/10059/2014	Evelina Sahay	Cognitive Biases & Consumer Decision Making: A Study of Indian Consumers
BITC	C, Kolkata		
57	PHD/CS/10006/2014	Abhishek Bhattacharya	Attack and Defence of spreading behavior of Computer Virus in Distributed System
58	PHD/CS/10007/2014	Surajit Goan	Visual Cryptography Schemes for Secret Sharing / Color Images
59	PHD/CS/10008/2014	Arun Kumar Sadhu	Distributed Algorithms for Swarm of Robots
60	PHD/CS/10009/2014	Ananta Dev Pal	TV White Space in Future Communication
61	Ph.D/CS/10051/2014	Soumya Ray	Security issues related to Big Data
62	PHD/MB/10007/2014	Aveek Basu	A Framework for Enterprise Resource Planning Based on Cloud Computing
63	PHD/MB/10008/2014	Arundhati Goswami	Identification of 'Green Consumers' and devising suitable promotional strategies for developing new market opportunities
64	PHD/MB/10009/2014	Ancy Nimsha Sreenivasan	Analytical insights on Career Development Programs in Indian IT Firms: An Exploratory Study
BITC	C, NOIDA		
65	PHD/CS/100010/2014	Harmeet Singh Sawhney	Data Analytics for Power Plant Efficiency Improvement
66	PHD/MB/10010/2014	Harsh	Impact of Employment Relations on Firm Performance : A Study on Manufacturing Industry in NCR
67	PHD/MB/10011/2014	Yogesh Mishra	Assessing the Adoption of Competency Framework and its Impact on Firm Performance In Indian Context
68	PHD/MB/10012/2014	Ekta Saraswat	Impact of Bank Mergers and Acquisitions on the Financial Behaviour of the Banks
69	PHD/MB/10013/2014	Keshab Chandra Ray	A Study of Challenges and Strategies for Indian IT Companies towards development of Global Brand
70	PHD/MB/10014/2014	Namrata Murmu	A Study of relationship between Workforce Diversity Initiatives and Talent Management Strategies for Generation 'Y' in the IT'ITES Industry

SI. No.	Roll No.	Name	Title
71	PHD/MB/10015/2014	Neha Saini	Analysis of the Food Processing Industry and its role in
			Indian Economy
72	PHD/MB/10052/2014	Ashok Kumar	A Study and Analysis of the selected issues of Retail
			Banking in Public and Private Banks
73	PHD/MB/10053/2014	Chitpriya	Gender Sensitivity in Indian corporate
74	PHD/MB/10054/2014	Ashish Madhav	A Study of E-CRM strategies and their Effectiveness in
			Indian Retail Sector
75	PHD/MB/10055/2014	Shashank Shekhar	Sustainable Supply Chain Challenges and Barriers in
			Indian Power Sector
76	PHD/MB/10056/2014	Jyoti S. Das	A Study of Impact of Culture on the Communication of
			Luxury Brands in India
77	PHD/MB/10057/2014	Nitin Appali Rao Salunkhe	Leadership in Family owned Business
BITO	C, Allahabad		
78	PHD/MB/10002/2014	Ashutosh Shukla	Reinventing Organizations by Developing a Learning
			Model : A Case Study of IT Companies Operating in
			India.
79	PHD/MB/10051/2014	Reetika Sehgal	

Convocation, Results, Degrees / Diploma Awarded

Upon the recommendation of the Board of Governors, all those who have fulfilled the requirements of their respective programmes during 2014-15, have been awarded Degree / Diploma in 25^{th} convocation held on 12^{th} December 2014.

Convocation - 2014

1	Doctoral Degrees					
	Doctor of Philosophy	Engineering				11
	Doctor of Philosophy	Management				11
	Doctor of Philosophy	Pharmacy				2
	Doctor of Philosophy	Science				10
	Doctor of Philosophy	Technology				5
	Total					39
2	Post-Graduate Degrees		ID**	I***	II****	Total
	Master of Business Administration		80	121	8	209
	Master of Computer Applications		129	123	5	257
	Master of Animation Design		2	5	0	7
	Master of Engineering	Automated Manufacturing System	11	10	0	21
	Master of Engineering	Computer Aided Analysis and Design	5	2	1	8

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	Master of Engineering	Civil	9	2	0	11
	Master of Engineering	Electrical	24	13	2	39
	Master of Engineering	Electronics and Communication	45	6	1	52
	Master of Engineering	Mechanical	15	4	0	19
	Master of Engineering	Quality Engineering and Management	4	0	0	4
	Master of Engineering	Software Engineering	9	5	0	14
	Master of Engineering	Space Engineering and Rocketry	9	7	1	17
	Master of Pharmacy		34	13	0	47
	Master of Science	Clinical Research and Pharmacovigilence	1	1	0	2
	Master of Science	Applied Chemistry	2	0	0	2
	Master of Science	Applied Physics	3	0	0	3
	Master of Science	Bioinformatics	6	2	0	8
	Master of Science	Biomedical Instrumentation	0	0	1	1
	Master of Science	Geoinformatics	6	1	0	7
	Master of Science	Information Technology	10	5	1	16
	Master of Technology	Atmospheric Science and Engineering	1	0	0	1
	Master of Technology	Biotechnology	14	1	0	15
	Master of Technology	Computer Science	44	20	0	64
	Master of Technology	Energy Technology	11	2	0	13
	Master of Technology	Environmental Science and Engineering	11	2	0	13
	Master of Technology	Information Security	16	2	0	18
	Master of Technology	Nanoscience and Nanotechnology	7	3	0	10
	Master of Technology	Polymer Science and Technology	0	0	1	1
	Master of Technology	Remote Sensing	12	3	0	15
	Master of Technology	Scientific Computing	2	0	0	2
	Master of Urban Planning		3	3	0	6
				Total		902
3	Under-Graduate Degrees		ID**	I***	II****	Total
	Bachelor of Architecture		19	4	0	23
	Bachelor of Business Administ	ration	106	18	1	125
	Bachelor of Computer Applica	tions	31	5	3	39
	Bachelor of Engineering	Biotechnology	18	10	6	34
	Bachelor of Engineering	Civil	35	42	2	79
	Bachelor of Engineering	Computer Science	129	72	4	205
	Bachelor of Engineering	Electrical and Electronics	131	79	9	219
	Bachelor of Engineering	Electronics and Communication	183	86	4	273

				Total		165
	Diploma in Technology	Manufacturing Engineering	12	11	1	24
	Diploma in Technology	Mechanical Engineering	21	7	0	28
	Diploma in Technology	Electronics Engineering	13	5	1	19
	Diploma in Technology	Electrical and Electronics Engineering	21	10	0	31
	Diploma in Technology	Computer Science	18	9	0	27
	Diploma in Technology	Automobile Engineering	12	5	0	17
	Diploma	Medical Laboratory Technology	16	3	0	19
4	Diploma		ID**	I***	II****	Total
				Total		1446
	Bachelor of Science	Physics	3	4	0	7
	Bachelor of Science	Mathematics	4	2	0	6
	Bachelor of Science	Chemistry	4	4	0	8
	Bachelor of Science	Food Processing Technology	4	0	0	4
	Bachelor of Science	Medical Laboratory Technology	0	6	0	6
	Bachelor of Science	Animation and Multimedia (Honours)	16	4	0	20
	Bachelor of Science	Animation and Multimedia	19	33	6	58
	Bachelor of Pharmacy		29	13	1	43
	Bachelor of Hotel Managem	ent and Catering Technology	5	6	2	13
	Bachelor of Engineering	Production	32	13	0	45
	Bachelor of Engineering	Chemical and Polymer	12	7	0	19
	Bachelor of Engineering	Mechanical	113	51	2	166
1	Bachelor of Engineering	Information Technology	38	14	2	54

Summary of Faculty strength

Sl. No.	Category	Number
1.	Professor	66
2.	Associate Professor	81
3.	Assistant Professor	450
4.	Lecturer	10
5.	Associate Lecturer	54
6.	Scientific Officer	4
7.	Teaching cum Research Fellow	11
8.	Others	36
	Total	712

Department of Architecture

Sl. No.	Name	Designation
1.	Dr. Debajyoti Biswas	Professor & Head
2.	Dr. Manjari Chakraborty	Professor
3.	Dr. Satyaki Sarkar	Associate Professor
4.	Mrs. Ritu Agarwal	Assistant Professor
5.	Mrs. Smriti Mishra	Assistant Professor
6.	Mr. Janmejoy Gupta	Assistant Professor
7.	Dr. Bimal Chandra Roy	Assistant Professor
8.	Mr. Rajan Chandra Sinha	Assistant Professor
9.	Mr. Anuj Toppo	Assistant Professor
10.	Mr. K.B. Singh	Assistant Professor
11.	Mr. Mrinal Pathak	Assistant Professor
12.	Mrs. Sangita	Associate Lecturer

Department of Bio-Engineering

Sl. No.	Name	Designation
1	Dr. Kunal Mukhopadhyay	Professor & Head
2	Dr. P. Padmanabhan	Professor
3	Dr. Ramesh Chandra	Professor
4	Dr. Rakesh Kumar Sinha	Professor
5	Dr. D. M. Pandey	Associate Professor
6	Dr. V. K. Nigam	Associate Professor
7	Dr. Manish Kumar	Assistant Professor
8	Mr. Surendra Kumar	Assistant Professor
9	Dr. Raju Poddar	Assistant Professor
10	Dr. Shashwati Ghosh Sachan	Assistant Professor
11	Dr. Ashish Sachan	Assistant Professor
12	Dr. Sheela Chandra	Assistant Professor
13	Mr. Santosh Kumar Jha	Assistant Professor
14	Dr. Debabrata Garai	Assistant Professor
15	Dr. Avneesh Pareek	Assistant Professor
16	Dr. Koel Mukherjee	Assistant Professor
17	Dr. Subha Rani Sharma	Assistant Professor
18	Dr. Hare Ram Singh	Assistant Professor
19	Dr. Dinesh Prasad	Assistant Professor
20	Dr. Yogender Aggarwal	Assistant Professor
21	Dr. Anjana Dwivedi	Assistant Professor
22	Mr. Supriyo Kumar Das	Associate Lecturer
23	Ms. Sneha Singh	Associate Lecturer
24	Dr. Shankaracharya	Associate Lecturer

Department of Chemical Engineering & Technology

Sl. No.	Name	Designation
1	Dr. (Mrs.) Mandira Mukherjee	Professor
2	Dr. Gautam Sarkhel	Professor & Head
3	Dr. (Mrs.) Sudipta Goswami (Sharma)	Professor
4	Dr. Akhil Kumar Sen	Associate Professor
5	Dr. Arup Chaudhury	Assistant Professor
6	Dr. Sumit Kumar Jana	Assistant Professor
7	Dr. Amar Nath Mishra	Assistant Professor
8	Dr. Sudeepan J.	Assistant Professor
9	Mr. Pulak Datta	Assistant Professor
10	Mrs. Debasree Ghosh	Assistant Professor
11	Dr. G.T. Mohanraj	Assistant Professor
12	Dr. Raghu Raja Pandiyan K.	Assistant Professor
13	Dr. Arnab Karmakar	Assistant Professor
14	Dr. Dharmendra Pandey	Assistant Professor
15	Dr. Bidhan Chandra Ruidas	Assistant Professor
16	Dr. Tapas Palai	Assistant Professor
17	Dr. Amit Kumar Tiwari	Food Technologist

Department of Chemistry

Sl. No.	Name	Designation
1.	Dr. Usha Jha	Professor
2.	Dr. J.P. Pandey	Associate Professor
3.	Dr. Bimal Verma	Associate Professor
4.	Dr. Ashoke Sharon	Associate Professor
5.	Dr. Sumit Mishra	Assistant Professor
6.	Dr. Deep Shikha	Assistant Professor
7.	Dr. Chandralata Bal	Assistant Professor
8.	Dr. Subhendu Naskar	Assistant Professor
9.	Dr. Rafique Ul Islam	Assistant Professor
10.	Dr. Rahul	Assistant Professor
11.	Dr. Gautam Sen	Assistant Professor
12.	Dr. Barnali Dasgupta Ghosh	Assistant Professor
13.	Dr. Poulomi Roy	Assistant Professor
14.	Dr. Susanta Sinha Mahapatra	Assistant Professor
15.	Dr. Pradip Kar	Assistant Professor
16.	Dr. G. K. Agarwal	Assistant Professor

Department of Civil & Environmental Engineering

Sl. No.	Name	Designation
1	Dr. Gopal Pathak	Professor
2	Dr. Balram Singh	Professor
3	Dr. Anand Kumar Sinha	Professor
4	Dr. Sudeshna Chakravorty	Professor
5	Dr. Arun Kumar	Associate Professor
6	Dr. Indrajit Roy	Associate Professor
7	Dr. Bindhu Lal	Associate Professor
8	Dr. Birendra Kumar Singh	Associate Professor
9	Dr. Siddharth Sengupta	Associate Professor
10	Dr. Jitu Kujur	Assistant Professor
11	Mr. Koushik Paul	Assistant Professor
12	Dr. Kirti Avishek	Assistant Professor
13	Dr. R. Naresh Kumar	Assistant Professor
14	Dr. Sukalyan Chakravorty	Assistant Professor
15	Dr. Tanushree Bhatacharya	Assistant Professor
16	Mr. Mani Mohan	Assistant Professor
17	Dr. Jawed Iqbal	Associate Lecturer
18	Dr. Neeta Kumari	Associate Lecturer

Department of Computer Science Engineering

Sl. No.	Name	Designation
1.	Dr. Sandip Dutta	Asso. Professor & Head
2.	Dr. G. Sahoo	Professor
3.	Dr. D.K. Mallick	Associate Professor
4.	Dr.(Mrs) Aruna Jain	Associate Professor
5.	Dr. Bhaskar Karn	Associate Professor
6.	Dr. K. Sridhar Patnaik	Associate Professor
7.	Dr. V.K. Jha	Associate Professor
8.	Dr. Arun A. Somasundara	Associate Professor
9.	Dr. B.K. Sarkar	Assistant Professor
10.	Dr. Sabina Priyadarshini	Assistant Professor
11.	Dr. Abhijit Mustafi	Assistant Professor
12.	Dr. Kumar Rajnish	Assistant Professor
13.	Dr. I. Mukherjee	Assistant Professor
14.	Dr. Sanchita Paul	Assistant Professor
15.	Dr. Sudip Kumar Sahana	Assistant Professor
16.	Dr. Sujan Kumar Saha	Assistant Professor
17.	Dr. Shashank Pushkar	Assistant Professor
18.	Dr. Anup Keshri	Assistant Professor

Sl. No.	Name	Designation
19.	Mr. S.K. Chatterjee	Assistant Professor
20.	Dr. Kishore Kumar Senapati	Assistant Professor
21.	Dr. P. Paul	Assistant Professor
21.	Mrs. Shruti Garg	Assistant Professor
22.	Mrs. Itu Snigdh	Assistant Professor
23.	Dr. Amritanjali	Assistant Professor
24.	Mrs. Samama Anwar	Assistant Professor
25.	Mr. Ritesh Jha	Assistant Professor
26.	Dr. S. Mohapatra	Assistant Professor
27.	Mr. Kalyan Samanta	Assistant Professor
28.	Mr. B.K. Chanda	Assistant Professor
29.	Ms Tanushree Roy	Assistant Professor
30.	Mrs. Debjani Mustafi	Associate Lecturer
31.	Mr. Niraj Kumar Singh	Teaching cum Institute Research Fellow
32.	Mr. Amit Parkash	Teaching cum Institute Research Fellow
33.	Mr. Dibya Ranjan Das Adhikari	Institute Research Fellow

Department of Electronics & Communication Engineering

Sl. No.	Name	Designation
1.	Prof. R. Sukesh Kumar	Professor & Dean Faculty Affairs
2.	Prof. S. K Ghorai	Professor
3.	Prof. Nisha Gupta	Professor
4.	Prof. Vibha Rani Gupta	Professor & Head
5.	Prof. S. Pal (on Lien)	Professor
6.	Mr. K. K. Masand	Associate Professor
7.	Mr. B. B. Pal	Associate Professor
8.	Dr. Mahesh Chandra	Associate Professor
9.	Dr. Sanjay Kumar	Associate Professor
10.	Dr. S.S. Solanki	Associate Professor
11.	Dr. N. Chattoraj	Associate Professor
12.	Dr. R.K. Lal	Associate Professor
13.	Mr. Vishal H. Shah	Assistant Professor
14.	Mr. Sukanta K. Dash	Assistant Professor
15.	Mr. K. Mahto	Assistant Professor
16.	Dr. Sanjeet Kumar	Assistant Professor
17.	Mr. Janardan Sahay	Assistant Professor
18.	Dr. S.S Tripathy	Assistant Professor
19.	Mrs. Annapurna S. M.	Assistant Professor
20.	Dr. Dileep Kumar Upadhyay	Assistant Professor
21.	Mr. G. K. Mishra	Assistant Professor

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Sl. No.	Name	Designation
21.	Mr. Priyank Saxena	Assistant Professor
22.	Mr. Somnath Sengupta	Assistant Professor
23.	Dr. Manoj Kumar Mukul	Assistant Professor
24.	Dr. A. Islam	Assistant Professor
25.	Ms. Swati Prasad	Assistant Professor
26.	Dr. Vijay Nath	Assistant Professor
27.	Dr. A. K. Tiwary	Assistant Professor
28.	Dr. S S Sahu	Assistant professor
29.	Mrs. P P Dash	Assistant professor
30.	Mr. Sudip Kundu	Assistant professor
31.	Mr. R. K. Sinha	Associate Lecturer
32.	Mr. Santashraya Prasad	Associate Lecturer
33.	Dr. (Mrs.) S. Sidhishwari	Associate Lecturer

Department of Electrical & Electronics Engineering

Sl. No.	Name	Designation
1.	Prof. Rakesh Chandra Jha	Professor & Head
2.	Prof. Tirthadip Ghose	Professor & Dean (Sponsored Research)
3.	Prof. Dusmanta Kumar Mohanta	Professor (on lien)
4.	Dr. Nutan Lata Nath	Associate Professor
5.	Dr. Parshuram Thakura	Associate Professor
6.	Dr. Sarbani Ray Chakraborty	Associate Professor
7.	Dr. Vijaya Laxmi	Associate Professor
8.	Mr. Prem Prakash	Assistant Professor
9.	Mr. Abinash Prasad	Assistant Professor
10.	Dr. Prabhat Kumar Upadhyay	Assistant Professor (on deputation)
11.	Dr. Sudhanshu Kumar Mishra	Assistant Professor
12.	Dr. Ritesh Kumar Keshri	Assistant Professor
13.	Dr. Debomita Ghosh	Assistant Professor
14.	Mr. Gauri Shanker Gupta	Assistant Professor
15.	Ms. Aparna Gautam	Assistant Professor
16.	Mr. Brij Mohan Prasad	Assistant Professor
17.	Mrs. Sushma Suryaprakash Kamlu	Assistant Professor
18.	Dr. V. K. Gupta	Assistant Professor
19.	Mr. S. K. Swain	Assistant Professor
20.	Mr. Deepak Kumar	Assistant Professor
21.	Mr. Nirbhar Neogi	Visiting Faculty

Department of Hotel Management and Catering Technology

Sl. No.	Name	Designation
1.	Praveen Srivastava	Assistant Professor & HOD (I/c)
2.	Abhinav Kr. Shandilya	Assistant Professor
3.	Rajeshwari Chatterjee	Assistant Professor
4.	Abhisek Jana	Assistant Professor
5.	Sanjeev Srivastava	Assistant Professor
6.	Nishikant Kumar	Assistant Professor
7.	Amit Saran	Assistant Professor
8.	Gautam Shandilya	Assistant Professor
9.	Pratima Ekka	Assistant Professor
10.	Pranjal Kumar	Assistant Professor

Department of Management

Sl. No.	Name	Designation
1.	Prof. (Dr.) Utpal Baul	Professor & Head
2.	Prof.(Dr.) S.K. Bose	Dean A& I.R
3.	Prof.(Dr.) Manju Bhagat	Professor
4.	Prof.(Dr.) Shraddha Shivani	Professor
5.	Prof.(Dr.) R.N. Bhagat	Professor
6.	Mr. S.C. Mishra	Associate Professor
7.	Dr. Supriyo Roy	Associate Professor
8.	Dr. Anupam Ghosh	Assistant Professor
9.	Dr. P.C. Jha	Assistant Professor
10.	Dr. Dharmendra Chand	Assistant Professor
11.	Mr. Shailendra Singh	Assistant Professor
12.	Dr. Rohit Pandey	Assistant Professor
13.	Dr. Juthika Banerjee David	Assistant Professor
14.	Mr. Anand Kumar	Assistant Professor
15.	Mrs. Shelly Srivastava	Assistant Professor
16.	Dr. Rohini Jha	Assistant Professor
17.	Dr. Amitabh Verma	Assistant Professor
18.	Mrs. Sujata Priyamvada Dash	Associate Lecturer
19.	Mr. Anand Prasad Sinha	Associate Lecturer

Department of Mathematics

Sl. No.	Name	Designation
1.	Dr. Saral Kumar Jain	Professor & Head
2.	Dr. S. K. Chakraborty	Professor
3.	Dr. B. K. Mishra	Professor

Sl. No.	Name	Designation
4.	Dr. S. Padhi	Professor
5.	Dr. S. Chakraborty	Professor
6.	Dr. S. S. Roy	Associate Professor
7.	Dr. (Ms.) A. P. Ghorai	Associate Professor
8.	Dr. (Ms.) P. Kaur	Assistant Professor
9.	Dr. Abhinav Tandon	Assistant Professor
10.	Dr. Satyabrata Adhikari	Assistant Professor
11.	Dr. Randhir Singh	Assistant Professor
12.	Dr. Anand Kumar Tiwari	Assistant Professor
13.	Dr. (Ms.) S.D. Jabeen	Assistant Professor
14.	Dr. (Ms.) Swati Pande	Associate Lecturer

Department of Mechanical Engineering

Sl. No.	Name	Designation
1.	Dr. Arbind Kumar I	Professor
2.	Dr. Arbind Kumar II	Professor & Head
3.	Prof. A.K Ray	Professor
4.	Dr. R.P. Sharma	Professor
5.	Dr. A.K. Roy	Associate Professor
6.	Dr. Rajeev Kumar	Associate Professor
7.	Sri S.K. Sinha	Associate Professor
8.	Dr. Kaushik Kumar	Associate Professor
9.	Dr. D.P. Mishra	Associate Professor
10.	Dr. D.B. Lata	Associate Professor
11.	Mrs. Richa Pandey	Assistant Professor
12.	Sri S.K. Dhiman	Assistant Professor
13.	Dr. P. Mishra	Assistant Professor
14.	Sri O. P. Pandey	Assistant Professor
15.	Sri B. K. Prabhakar	Assistant Professor
16.	Sri Sujeet Kr. Mishra	Assistant Professor
17.	Dr. Abhijit Nag	Assistant Professor
18.	Dr. Dhaneshwar Mahto	Assistant Professor
19.	Sri Arun Dayal Udai (on Study Leave)	Assistant Professor
20.	Dr. Shankha Bhaduri	Assistant Professor
21.	Dr. Om Prakash	Assistant Professor
22.	Sri Nirmal Kumar	Assistant Professor
23.	Sri Ankur Chattopadyaya	Assistant Professor
24.	Sri Vikas	Assistant Professor
25.	Sri L.S. Brar	Teach. cum. Res. Fellow
26.	Sri A. Bhowmik	Scientific Officer

Department of Pharmaceutical Sciences & Technology

Sl. No.	Name	Designation
1	Dr. D. Sasmal	G. P. Birla Distinguished Service
		Professor
2	Dr. B.N. Sinha	Professor
3	Dr. P.R.P. Verma	Professor
4	Dr. S. Samanta	Professor
5	Dr. S. Jha	Professor
6	Dr. R. N. Gupta	Professor
7	Dr. (Ms.) S. Ganguly	Professor
8	Mrs. S. G. Panpalia	Assoc. Professor
9	Dr. Jayaram Kumar	Assoc. Professor
10	Dr. (Mrs.) P. Mitra Mazumder	Assoc. Professor
11	Dr.(Mrs.)S. M. Verma	Assoc. Professor
12	Mr. Ashok Pattanaik	Assistant Professor
13	Dr. J. Venkatesan	Assistant Professor
14	Dr. Manik	Assistant Professor
15	Dr. S.P. Pattanayak	Assistant Professor
16	Dr. A. Dev	Assistant Professor
17	Mr. B. Sarkar	Assistant Professor
18	Dr. T. Bal	Assistant Professor
19	Dr. A. Pandey	Assistant Professor
20	Dr. Neelima Sharma	Assistant Professor
21	Dr. Sandeep Kumar Singh	Assistant Professor
22	Dr. Animesh Ghosh	Assistant Professor
23	Dr. Uma Ranjan Lal	Assistant Professor
24	Dr. Sugato Banerjee	Assistant Professor
25	Dr. Kishanta Pradhan	Assistant Professor
26	Mr. M. P. Chopra	Assistant Professor

Department of Physics

Sl. No.	Name	Designation
1	Dr S Konar	Professor & Head
2	Dr (Mrs) S Keshri	Professor
3	Dr. S K Sinha	Associate Professor
4	Dr. S K Rout	Associate Professor
5	Dr S K Mahapatra	Associate Professor
6	Dr I Banerjee	Associate Professor
7	Dr K Bose	Assistant Professor
8	Dr M Mishra	Assistant Professor
9	Dr Sanat K Mukherjee	Assistant Professor

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Sl. No.	Name	Designation
10	Dr (Mrs) Ela Sina	Assistant Professor
11	Dr R Sharma	Assistant Professor
12	Mr M K Sinha	Senior Scientific Officer
13	Dr Ashwini Ranade	Assistant Professor
14	Dr. Nishi Srivastav	Assistant Professor

Department of Production Engineering

Sl. No.	Name	Designation
1	Dr. Vinay Sharma	Professor & Head
2	Dr. B.K. Singh	Professor & Dean (Academic Program)
3	Mr. A. K. Thakur	Associate Professor
4	Dr. Sanjay Kumar Jha	Associate Professor
5	Dr. Ritesh Kumar Singh	Associate Professor
6	Dr. L.N. Pattanaik	Associate Professor
7	Dr. Vijay Pandey	Associate Professor
8	Dr. S. C. Srivastava	Associate Professor
9	Dr. Joyjeet Ghose	Associate Professor
10	Dr. Rajeev Agrawal	Assistant Professor
11	Mr. Binay Kumar	Assistant Professor
12	Dr. Somak Datta	Assistant Professor

Department of Remote Sensing

Sl. No.	Name	Designation
1.	Dr. Akhouri Pramod Krishna	Professor and Head
2.	Dr. Nilanchal Patel	Professor
3.	Dr. C. Jeganathan	Professor
4.	Dr. V.S. Rathore	Assistant Professor
5.	Mrs. R.N.K. Sharma	Assistant Professor
6.	Mr. S. Chelliah	Assistant Professor
7.	Dr. Mili Ghosh	Assistant Professor

Department of Space Engineering & Rocketry

Sl. No.	Name	Designation
1.	Dr. Mohan Varma	Professor & Head
2.	Dr. Sudip Das	Associate Professor
3.	Prof. Priyank Kumar	Assistant Professor
4.	Dr. Partha Mondal	Assistant Professor
5.	Dr. Rajiv Kumar	Assistant Professor

Physical Education and Sports

Sl. No.	Name	Designation
1	Dr. Mahendra Kumar	Assistant Professor

OFF CAMPUSES

ALLAHABAD

Sl. No.	Name	Designation
1.	Dr. P.K. Srivastava	Professor & Director I/c
2.	Dr. S. Kanungo	Assistant Professor
3.	Dr. R.S. Pandey	Assistant Professor
4.	Mrs. A. Kushwaha	Assistant Professor
5.	Shri S.C. Pandey	Assistant Professor
6.	Dr. K.N. Mishra	Assistant Professor
7.	Shri A.K. Keshri	Assistant Professor
8.	Dr. P.C. Srivastava	Assistant Professor
9.	Shri R. Mishra	Assistant Professor
10.	Mrs. A. Shukla	Associate Lecturer
11.	Shri Hareshwar Prasad	Associate Lecturer
12	Shri N. Trivedi	Associate Lecturer
13.	Dr. Adhip Kumar Mahanty	Assistant Professor
14.	Dr. Sunil Kumar Pandey	Assistant Professor
15.	Dr. Ashish Mohan Dubey	Assistant Professor
16.	Dr. Nidhi Tiwari	Associate Lecturer
17.	Shri Shambhu Sharan Kumar	Assistant Professor

DEOGHAR

Sl. No.	Name	Designation
1	Dr. J. K. Prasad	Director
2	Dr. Mainak Mukhopadhyay	Assistant Professor & I/c, ECE
3	Mr. Babu Lal Shahu	Assistant Professor
4	Mrs. Sutapa Mondal	Assistant Professor
5	Mr. Sridhar Chintala	Assistant Professor
6	Mr. Mahendra Kumar Das	Associate Lecturer
7	Mr. Chinmay Chakraborty	Assistant Professor
8	Mr. Akash Kumar Gupta	Assistant Professor
9	Mr. Shashikant Kumar	Teaching cum JRF
10	Mr. Piyush Kumar Ojha	Assistant Professor & I/c, EEE
11	Mr. Pankaj Mishra	Assistant Professor
12	Mr. Prabhat Kumar Ranjan	Assistant Professor
13	Mr. Srihari Gude	Assistant Professor
14	Mr. Deep Shekhar Acharya	Assistant Professor
15	Mr. Surendra Kumar Mahto	Associate Lecturer
16	Dr. Soumya Banerjee	Associate Professor and I/c, CSE
17	Mr. Balaram Mondal	Assistant Professor
18	Mr. Raja Ram Dutta	Assistant Professor
19	Mr. S.K. Borat	Associate Lecturer

Sl. No.	Name	Designation
20	Mr. Nishi Kant Kumar	Associate Lecturer
21	Mr. Saswata Mukherjee	Associate Lecturer
22	Mrs. Neena Jha	Associate Lecturer
23	Mrs. S. Paul	Teaching cum JRF
24	Dr. A. Chakraborty	Associate Professor and I/c, Mech Engg.
25	Mr. R. Upadhyay	Assistant Professor
26	Mr. Ashutosh Kumar	Assistant Professor
27	Mr. S. Rao Gopisetti	Assistant Professor
28	Mr. S. Kumar	Teaching Assistant
29	Mr. Prafulla Kumar Manoharan	Assistant Professor
30	Dr. Bappa Acherjee	Assistant Professor
31	Mr. Abhishek Kumar Singh	Assistant Professor
32	Mr. Anil Kumar Sharma	Assistant Professor & I/c, Prod. Engg.
33	Dr. Randhir Kumar	Assistant Professor
34	Mr. Sanjiv Kumar Tiwari	Assistant Professor
35	Dr. Ratan Kumar Paul	Associate Professor & I/c, Physics
36	Dr. Soumen Karmakar	Assistant Professor
37	Dr. Ram Krishna Sarkar	Assistant Professor
38	Dr. M. K. Dutta	Assistant Professor
39	Dr. A. C. Singh	Assistant Professor
40	Dr. S. S. Majhi	Assistant Professor & I/c, Chemistry
41	Dr. (Mrs.) A. Sharma	Teaching Assistant
42	Dr. Ranjan Chattaraj	Assistant Professor and I/c
43	Dr. Amit Kumar	Assistant Professor
44	Dr. Bishnu Kumar	Assistant Professor
45	Dr. S. G. Hazra	Assistant Professor, I/c, Management Dept.
46	Mrs. M. Jha	Associate Lecturer
47	Mrs. A. Banerjee	Associate Lecturer
48	Mrs. Payal Bharadwaj	Assistant Professor
49	Mr. Nilesh Kumar Rajalwal	Assistant Professor

JAIPUR

Sl. No.	Name	Designation
1	Dr. Abhinav Dinesh	Director
Comput	er Science Department	
2	Dr.(Mrs.) Madhavi Sinha	Associate Professor
3	Dr. Shripal Vijayvargiya	Associate Professor
4	Mr. P.K. Sharma	Assistant Professor
5	Dr. Bimalendu Pathak	Assistant Professor
6	Dr. Vishwambhar Pathak	Assistant Professor
7	Dr. Piyush Gupta	Assistant Professor
8	Mr. Madan Mohan Agarwal	Assistant Professor

Sl. No.	Name	Designation
9	Mr. Vivek Gaur	Assistant Professor
10	Mr. Subhash Chand Gupta	Assistant Professor
11	Dr. (Mrs.) Archana Bhatnagar	Assistant Professor
12	Mrs. Seema Gaur	Assistant Professor
13	Mrs. Anju Sharma	Assistant Professor
14	Mr. Santosh Kumar Sharma	Assistant Professor
15	Mr. Santhosh Kumar Agarwal	Associate Lecturer
Electron	ics & Communication Engineering D	epartment
16	Mr. Deepak Chaturvedi	Assistant Professor
17	Mrs. Jyoti Sharma	Assistant Professor
18	Mr. Gaurav Jain	Assistant Professor
19	Mr. Snehanshu Shekhar	Assistant Professor
20	Mr. Ankur Agarwal	Assistant Professor
21	Mr. M.K. Vishwakarma	Assistant Professor
22	Mr. Puneet Sharma	Associate Lecturer
23	Mr. Jitendra Kumar Saini	Associate Lecturer
24	Mrs. Kanika Joshi	Teaching cum Research Associate
Electrica	al & Electronics Engineering Department	ment
25	Mr. Prashant Singh Rathore	Assistant Professor
26	Mrs. Aparajita Pandey	Assistant Professor
27	Mr. Alok Pandey	Sr. System Manager (Also having teaching assignment)
28	Mr. Saurabh Kumar	Assistant Professor
Manager	ment Department	
29	Dr. Roopali Sharma	Associate professor
30	Dr. Ritu Arora	Assistant Professor
31	Mrs. Pankaj Sharma	Assistant Professor
32	Dr. Pramod Bubna	Asst. Registrar (Presently having teaching assignment)
33	Mr. Priyanshu Sharma	Associate Lecturer
34	Mrs. Purvi Mathur	Associate Lecturer
Animati	on & Multimedia Department	
35	Dr. Vibhuti Pandya	Assistant Professor
36	Mr. Gautam Kumar Goswami	Assistant Professor
37	Mr. Manish Kumar	Associate Lecturer
38	Dr. (Mrs.) Rishika Sharma	Associate Lecturer
39	Mrs. Neeraja Sharma	Scientific Officer (Presently having teaching assignment)
Chemist	ry Department	
40	Dr. S.K. Sharma	Professor
41	Dr. (Mrs) Ranjana Agarwal	Assistant Professor
42	Dr. (Mrs.) Rajni Agrawal	Technical Superintendent (Presently having teaching assignment)
	Department	
43	Dr. Dheeraj Bhardwaj	Assistant Professor
44	Dr. Anand Kumar Srivastava	Assistant Professor
45	Mr. Ravindra Kumar	Associate Lecturer

Sl. No.	Name	Designation	
Mathematics Department			
46	Dr. Gurminder Singh Malhotra	Associate Professor	
47	Dr. Indra Kumar Dadheech	Assistant Professor	
48	Dr. (Mrs.) Bhawna Agarwal	Assistant Professor	
Mechani	cal Department		
49	Dr. Jeeoot Singh	Associate Professor	
50	Mr. Vikas Sangwan	Assistant Professor	
51	Mr. Abinash Pankaj	Scientific Officer (Also having teaching assignment)	
Humani	ties Department		
52	Mrs. Ritu Pareek	Associate Lecturer (English Language)	
Bio - Teo	Bio - Technology Department		
53	Dr. M. Krishna Mohan	Professor (Presently Deputed to BISR, Jaipur)	
54	Mr. P.S. Solanki	Assistant Professor (Presently Deputed to BISR, Jaipur)	
55	Dr. R.K. Gothwal	Assistant Professor (Presently Deputed to BISR, Jaipur)	
Climato	Climatology /Environmental Science Dept.		
56	Dr. Sunita Verma Payra	Assistant Professor (Presently deputed at Jaipur Centre)	
57	Dr. Swagat Payra	Assistant Professor (Presently deputed at Jaipur Centre)	
58	Mrs. Nidhi Singh	Associate Lecturer	

KOLKATA

Sl. No.	Name	Designation
1	Dr. R. T. Goswami	Director I/c
2	Prof. Subho Chaudhuri	Associate Professor
3	Dr. Srabani Mukhopadhyaya	Associate Professor
4	Dr. Ajanta Das (nee De Sarkar)	Associate Professor
5	Dr. Bharat Gupta	Associate Professor
6	Dr. Sraboni Dutta	Associate Professor
7	Dr. Sanchita Ghosh	Assistant Professor
8	Dr. Ambar Dutta	Assistant Professor
9	Dr. Ruchira Mukherjee	Assistant Professor
10	Dr. Sandip Kumar Sengupta	Assistant Professor
11	Prof. Tanmoy Banerjee	Assistant Professor
12	Prof. Rohit Kamal Chatterjee	Assistant Professor
13	Prof. Soumendra Bhattacharjee	Assistant Professor
14	Prof. Siba Mitra	Assistant Professor
15	Prof. Abhijit Kundu	Adjunct Professor
16	Prof. Ranadeep Mukherjee (on leave)	Associate Lecturer
17	Prof. Soumya Ray	Assistant Professor
18	Prof. Khalid Ashraf	Associate Lecturer
19	Prof. Sohini Ghosh	AssistantProfessor

LALPUR

Sl. No.	Name	Designation
1	Dr. A.N. Jha	Director I/c
2	Dr. (Mrs) Vandana Bhattacharjee	Professor
3	Dr. (Mrs) Amrita Priyam	Associate Professor
4	Mrs. Onima Tigga	Assistant Professor
5	Dr. Pranab Kumar	Associate Professor
6	Mr. Arun Kumar Singh	Assistant Professor
7	Dr. Abhay Ranjan Srivastava	Assistant Professor
8	Dr. N.K. Singh	Assistant Professor
9	Mr. Amar Kumar	Assistant Professor
10	Dr. Sanjay Kumar	Assistant Professor
11	Mr. N.P. Tiwary	Assistant Professor
12	Dr. Kuntal Mukherjee	Assistant Professor
13	Dr. S.N. Sahdeo	Assistant Professor
14	Ms. Anupama Sahai	Assistant Professor
15	Dr. P.S. Bishnu	Assistant Professor
16	Dr. Somnath Mukherjee	Assistant Professor
17	Mr. B.K. Sharma	Assistant Professor
18	Ms. Jaya Pal	Assistant Professor
19	Dr. Ashutosh Mishra	Assistant Professor
20	Dr. S.A. Haider	Assistant Professor
21	Dr. Milli Dutta	Assistant Professor
22	Mr. Amitabh Chandan	Assistant Professor
23	Dr. J. Bhagat	Assistant Professor
23	Dr. Umesh Prasad	Assistant Professor
24	Mr. D.K. Mishra	Assistant Professor
25	Mr. Soumitro Chakravorty	Assistant Professor
26	Mrs. Swati Priyadarshani	Assistant Professor
27	Dr. Avinash Sinha	Assistant Professor
28	Mr. Satrajeet Choudhary	Assistant Professor
29	Mr. Somenath Chatterjee	Teaching Assistant
30	Dr. Pradeep Munda	Assistant Professor

NOIDA

Sl. No.	Name	Designation
Departn	nent of Management	
1	Dr. Munish Makkad	Professor & Director I/c
2	Dr. Asha Prasad	Professor
3	Dr. Vandna Sharma	Associate Professor

Sl. No.	Name	Designation
4	Mrs. Rachana Pratik	Assistant Professor
5	Dr. Meenakshi Sharma	Associate Professor
6	Ms. Harpreet Charanjit	Assistant Professor
7	Mrs. Ritu Jain	Assistant Professor
8	Mrs. Preety Bajaj	Assistant Professor
9	Dr. Arun Mittal	Assistant Professor
10	Dr. K.B. Singh	Assistant Professor
11	Dr. Monika Bisht	Assistant Professor
12	Dr. Abhishek Singh	Assistant Professor
13	Dr. Suparna Dutta	Associate Professor
Departr	nent of Computer Science	
14	Dr. Peeyush Tewari	Associate Professor
15	Mrs. S. Mallika	Assistant Professor
16	Dr. S.P. Singh	Assistant Professor
17	Dr. Ila Sahay	Associate Professor
18	Mr. Anil Kumar	Assistant Professor
19	Mr. Pankaj Gupta	Assistant Professor
20	Mrs. Mrinalini Mehta	Assistant Professor
21	Dr. Vibha Kaw	Assistant Professor
22	Mrs. Soma Sircar	Assistant Professor
23	Dr. Shruti Kohli	Assistant Professor
24	Mr. Aruna Malik	Assistant Professor
25	Mrs. Sheetal Dhir	Assistant Professor
26	Mrs. Pramila Joshi	Assistant Professor
27	Mrs. Muntaha Ahmad	Assistant Professor
28	Mrs. Smitha Jha	Assistant Professor
29	Mr. Anurag Joshi	Assistant Professor
30	Mrs. Priti Sharma	Assistant Professor
31	Ms. Charu Wahi	Assistant Professor
32	Mrs. Seema Sharma	Assistant Professor
33	Mrs. Lipika Jha	Associate Lecturer
34	Mr. Rakesh Singh	Associate Lecturer
35	Dr. B. B. Sagar	Assistant Professor
36	Mr. Umar Ujala	Assistant Professor
	nent of Animation & Multimedia	
37	Mr. Kiran A. Shetti	Sr. Animation Trainer
38	Mr. Lalit Mohan Bhatt	Editor
39	Mr. Rahul Dora	Tech. Superintendent
40	Mr. Partha Acharya	Faculty
41	Mr. Niket Mehta	Assistant Professor

Sl. No.	Name	Designation
42	Mr. Das Mohan Singh	Designer
43	Mr. Aroop Kerketta	Faculty
44	Mr. Obed H. Longvah	Cinematographer
45	Mr. Manoj Kumar	Animator

PATNA

SI No.	Name	Designation	Department
1	Dr. S.P. Lal	Director I/c	Production
2	Dr. Rakesh Kumar	Assistant Professor & In- Charge	Chemistry
3	Dr. Kaushlendra Sharma	Assistant Professor	Chemistry
4	Ms. Anubha Singh	Assistant Professor	Chemistry
5	Dr. Rajnish Kumar	Assistant Professor & In- Charge	Mathematics
6	Dr. Premlata Singh	Assistant Professor	Mathematics
7	Dr. A.K. Tiwary	Assistant Professor	Mathematics
8	Dr. S.K. Sinha	Associate Professor & In- Charge	Physics
9	Dr. Binay Bhushan	Assistant Professor	Physics
10	Dr. Kamala Pati Tiwary	Assistant Professor	Physics
11	Dr. Paramjit Kour	Assistant Professor	Physics
12	Ms. Anamika Nandan	Assistant Professor & In- Charge	B. Arch
13	Mr. Danish	Assistant Professor	B. Arch
14	Prof. A.S. Vidyarthi (On Lien)	Professor & Head	Bio-Tech.
15	Prof. R R Sahay	Professor & In- Charge	Civil
16	Dr. Subha Sinha	Assistant Professor	Civil
17	Dr. Syed Tabin Rushad	Assistant Professor	Civil
18	Mr. Anish	Assistant Professor	Civil
19	Ms. Bandana Mahto	Assistant Professor	Civil
20	Mr. Bishwas Narayan Singh	Associate Lecturer	Civil
21	Dr. Kanhaya Lal	Assistant Professor & In- Charge	CSE/IT
22	Dr. Upendra Kumar	Assistant Professor	CSE/IT
23	Ms. Sheel Shalini	Assistant Professor	CSE/IT
24	Mr. Shridhar Kumar	Assistant Professor & In- Charge; BCA	CSE/IT
25	Mr. Samant Saurav	Assistant Professor	CSE/IT
26	Mr. Ayan Das	Assistant Professor	CSE/IT
27	Mr. Adnan Mahmood	Associate Lecturer	CSE/IT
28	Mr. Madhup Kumar	Associate Lecturer	CSE/IT
29	Mr. Raghav Mallik	Associate Lecturer	CSE/IT
30	Ms. Smita Srivastava	Associate Lecturer	CSE/IT

SI No.	Name	Designation	Department
31	Ms. Smita Pallavi	Jr. Teaching Cum-Research Fellow	CSE/IT
32	Mr. Shahiruddin	Assistant Professor & In- Charge	ECE
33	Dr. Abu Nazar Ghazali	Assistant Professor	ECE
34	Dr. Megha Dadel	Assistant Professor	ECE
35	Mr. Atul Kumar Pandey	Assistant Professor	ECE
36	Mr. Priyadarshi Suraj	Assistant Professor	ECE
37	Ms. Poonam Priyadarshini	Assistant Professor	ECE
38	Mr. Prashant Kumar	Assistant Professor	ECE
39	Mr. Ritesh Kumar Badhai	Assistant Professor	ECE
40	Ms. Shipra	Assistant Professor	ECE
41	Mr. Shiv Kumar Choubey	Teaching Cum Research Fellow	ECE
42	Ms. Sweta Kumari	Teaching Cum-Research Fellow	ECE
43	Mr. Sanjay Kumar - I	Assistant Professor & In- Charge	EEE
44	Mr. Kumar Nikhil	Assistant Professor	EEE
45	Mr. Mayank Singh	Assistant Professor	EEE
46	Ms. Shradha Kishore	Assistant Professor	EEE
47	Md. Asif Hassan	Assistant Professor	EEE
48	Mr. Sanjay Kumar - II	Associate Lecturer	EEE
49	Mr. Raj Kumar Mishra	Associate Lecturer	EEE
50	Mr. Girish Pathak	Assistant Professor & In- Charge	Mechanical
51	Dr. Anand Kumar	Assistant Professor	Mechanical
52	Md. Ashique Hassan	Assistant Professor	Mechanical
53	Mr. Chandan Kumar	Assistant Professor	Mechanical
54	Mr. Ravi Shankar Anand	Assistant Professor	Mechanical
55	Mr. Soumen Mandal	Assistant Professor	Mechanical
56	Mr. Sudipta Kishore Pradhan	Assistant Professor	Mechanical
57	Mr. Amit Kumar	Assistant Professor	Mechanical
58	Dr. Vijay Agrawal	Associate Professor & In- Charge	Management
59	Dr. Iftekhar Ahmad	Assistant Professor	Management
60	Dr. Amit Raghuvanshi	Assistant Professor	Management
61	Dr. Sweta	Associate Lecturer	Management
62	Mr. Kapildeo Prasad	Assistant Professor & In- Charge	Production
63	Mr. Prashant Prakash	Assistant Professor	Production
64	Mr. Thakur Abhinav Amar	Assistant Professor	Production
65	Mr. Vijay Kr. Mandal	Associate Lecturer	Production
66	Mr. Suresh Singh Yadav	Associate Lecturer	PT & Game
67	Mr. K.C. Bajpai	Visiting Professor	Creative Arts

OFF SHORE CAMPUSES

MUSCAT

Sl. No.	Name	Designation
1.	Dr. S. L. Gupta	Director
2.	Dr. Sadaf Zahra	Assistant Professor
3.	Ms. Akhila Rajan	Assistant Professor
4	Ms. Atiya Tabassum	Assistant Professor
5	Dr. David Mandepudi	Assistant Professor
6	Ms. Sharmila Queenthy	Assistant Professor
7	Ms. P. Vijaya	Assistant Professor
8	Ms. Akrati Kaul	Assistant Professor
9	Ms. Alycia Edwin	Assistant Professor
10	Ms. Anu Manchanda	Assistant Professor
11	Mr. Arbind Kumar Choudhary	Assistant Professor
12	Ms. Cimi Thomas	Assistant Professor
13	Ms. S. B. Sinymol	Assistant Professor
14	Mr. Sanjay Kumar	Assistant Professor
15	Mr. Satish Chander	Assistant Professor
16	Mr. Shahid Ali	Assistant Professor
17	Mr. Sounak Paul	Assistant Professor
18	Ms. Vallikannu R. M.	Assistant Professor
19	Mr. Akhilesh Roy	Assistant Professor
20	Ms. Anasuya Patil	Assistant Professor
21	Mr. Mohammed Waadalla Dawod	Assistant Professor
22	Ms. Priya C Rajan	Assistant Professor
23	Dr. Rajeev Kumar	Assistant Professor
24	Mr. Rajeev Ranjan	Assistant Professor
25	Ms. Smitha Felix	Assistant Professor
26	Mr. Vikash Sharma	Senior Lecturer - Selection Grade
27	Mr. Jyoti K Chandel	Assistant Professor
28	Dr. A. Prakash	Assistant Professor
29	Dr. Arvind Hans	Assistant Professor
30	Ms. Blossom Christina	Assistant Professor
31	Dr. Ganesh Prasad Mishra	Professor
32	Ms. Kusum Lata Mishra	Associate Lecturer
33	Mr. Mithun Srivastava	Assistant Professor
34	Ms. Neelufer Aslam	Assistant Professor
35	Dr. Niraj Mishra	Assistant Professor
36	Dr. Nupur Sen	Assistant Professor
37	Mr. Prashant Kumar Singh	Assistant Professor
38	Dr. Prashant Rastogi	Associate Professor
39	Ms. Sameena Begum	Assistant Professor
40	Mr. Sayeed Aulia	Assistant Professor
41	Dr. Seema Gupta	Assistant Professor
42	Dr. Seema Varshney	Assistant Professor

Sl. No.	Name	Designation
43	Dr. Srilekha Goveas	Assistant Professor
44	Mr. Sultan Khan	Lecturer
45	Dr. Sushil Kumar	Assistant Professor
46	Dr. Mohammad Mohatram	Assistant Professor
47	Ms. Seema Arora	Assistant Professor
48	Mr. Praveen James Sanga	Assistant Professor
49	Mr. Kuldeep Gupta	Assistant Professor
50	Dr. Prabal Datta	Assistant Professor
51	Dr. Sanjay Kumar Mohanty	Assistant Professor

RAS AL KAHIMAH

Sl. No.	Name	Designation				
1	Dr. R. P. Singh	Professor & Director				
Departn	Department of Architecture					
2	Ms. Gayathri Viswanathan	Associate Professor				
3	Mrs. Bhavna Modi	Assistant Professor				
4	Ms. Champa	Assistant Professor				
5	Ms. Sivamalar	Part-time Faculty				
Departn	nent of Science					
6	Dr. P. K. Upadhyay	Assistant Professor				
7	Mrs. Vijayalaxmi	Assistant Professor				
8	Dr. Suja Krishnan	Part-time Faculty				
9	Ms. Sheetal	Part-time Faculty				
Departn	nent of Electrical & Electronics Engineering					
10	Mrs. Chetna Nagpal	Assistant Professor				
11	Mrs. Linju Joseph	Assistant Professor				
Departn	nent of Electronics & Communication Engineering					
12	Mrs. Deepthy Manikantan	Assistant Professor				
13	Mrs. Annie Therese Edwis	Assistant Professor				
14	Ms. Nisha Mary Mathew	Assistant Professor				
Departn	nent of Computer Science & Engineering					
15	Mr. Siva Suryanarayana	Assistant Professor				
16	Mrs. Archana Pandita	Assistant Professor				
17	Mrs. Deepa Suresh	Assistant Professor				
18	Ms. Gopika	Part-time Faculty				
Departn	nent of Mechanical Engineering					
19	Mr. Prashant T.	Assistant Professor				
20	Mr. Irfan Sheikh	Assistant Professor				
21	Mr. Ani Daniel	Assistant Professor				
Departn	nent of Management					
22	Mr. Soofi Anwar	Assistant Professor				
23	Mrs. Rhoda Alexander	Assistant Professor				
24	Mrs. Sonali Jagath	Assistant Professor				

Sl. No.	Name	Designation
25	Dr. Kavita	Assistant Professor
26	Mr. Nikhil V.P.	Assistant Professor
27	Mr. Sreedharan	Part-time Faculty
28	Ms. Divya Jadeja	Part-time Faculty
29	Ms. Sona Sebastian	Part-time Faculty
30	Mrs. Shanti Rajan	Part-time Faculty
Departm	ent of Language	
31	Ms. Sri Thivvya	Part-time Faculty
32	Ms. Martina Daniel	Part-time Faculty

UNIVERSITY POLYTECHNIC

Sl. No.	Name	Designation
1.	Mr. Devendra Kumar Jain	Director
2.	Mr. Ramkesh	Assistant Professor
3.	Dr. B. N. Sanyal	Assistant Professor
4.	Mr. Manish Oraon	Assistant Professor
5.	Mr. Pradeep Toppo	Assistant Professor
6.	Dr. (Mrs.) Meena Singh	Assistant Professor
7.	Mr. Ramnish Sinha	Assistant Professor
8.	Mr. Abhay Kumar	Assistant Professor
9.	Dr. G. M. Ansari	Assistant Professor
10.	Mr. Rajendra Mahto	Assistant Professor
11.	Dr. Satish Kumar	Lecturer
12.	Dr. (Mrs.) Sandhya Rani	Lecturer
13.	Dr. (Mrs.) Sumana	Lecturer
14.	Dr. T. K. Parashar	Lecturer
15.	Mrs. Neeru Singh	Lecturer
16.	Mr. Niraj Kumar	Lecturer
17.	Mrs. Rekha Kumari	Lecturer
18.	Mr. Manoj Kumar	Lecturer
19.	Mr. Mohd. Neyaz Ahsan	Lecturer
20.	Mr. Chanchal Kumar Mishra	Lecturer
21.	Mr. Rakesh	Associate Lecturer
22.	Mr. N. K. Mukherjee	Associate Lecturer
23.	Mrs. Nirupam	Associate Lecturer
24.	Mr. Maqubool Hossain	Associate Lecturer
25.	Mr. Narendra Kumar Singh	Physical Training Instructor
26.	Mr. Sanjay Jha	Teaching Assistant
27.	Mr. P. R. Mahto	Teaching Assistant
28.	Mr. Shankar Kumar	Teaching Assistant

Department of Architecture



The Department of Architecture was established in BIT Mesra in the year 1993. Architecture is primarily the art and science of designing spaces for serving the multifarious activities of human beings and for meeting their specific needs in a meaningful built environment. Architecture calls for originality, creativity, conceptualization, perception, aesthetic values and a holistic judgment of people, places, objects and events. Imparting these values, our fifteen batches of architecture students have graduated till now and they have found gainful employment in planning, design and construction sector. Many of our students have opted for higher studies in India and abroad in the disciplines of Urban Design, City Planning, Landscape Architecture, Conservation and Construction Management. Our students have also opted for diversified fields such as Visual Design, Product Design, Fashion Design, Management and Software Development related with architecture.

The Department has started offering the Master in Urban Planning degree course from January 2007 with a maximum intake capacity of 12. The intake includes students with degrees of B.Arch., B.E./B.Tech.(Civil Engineering), M.A. in Geography, Sociology or Economics. The students have gained fruitful employment in planning organizations, in teaching, and other related activities.

The Department has ranked among the top ten best Architecture Departments as per the survey conducted by the Outlook. Since last three years.

The Department is the first in the country as an Architecture Department to publish an internationally refereed bi-annual research journal named ABACUS since August 2006. Eleven issues of the journal have been published.

The Department offers following academic program:

UG Program: "Bachelor of Architecture" (B. Arch) degree course in Architecture of 5-year / 10 semester duration

"Master in Urban Planning" degree course of 2-year / 4 semester duration. **PG Program**:

Doctoral Program: "PhD" degree in Architecture and Planning

Sponsored projects:

Project Sanctioned:

SI.	Ducinet Title	PI / Co- PI/	Funding	Date of	Sanctioned	Duration of
No.	Project Title	Collaborator, if any	Agency	Sanction	Amount	the Project
1.	National Mission Project		MHRD	August 2009	20.48 Lacs	Till date
	on Education through					
	ICT: Developing suitable					
	pedagogical methods for					
	Four courses					

Ongoing Projects:

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	National Mission Project on Education through ICT: Developing suitable pedagogical methods for courses on : 1) Architectural Sociology	_	MHRD	August 2009	5.12 Lacs	Till date
2	Energy Efficient Building	PI: Dr. Manjari Chakraborty Co-PI 1: Jonmejoy Gupta, Co-PI 2 Dr. B.C. Roy	MHRD	August 2009	5.12 Lacs	Till date
3	Housing & Community Planning	Co- PI: R.C. Sinha	MHRD	August 2009	5.12 L	Till date
4	Vernacular Architecture	Co-PI 1: Ritu Agrawal Co-PI 2: Smriti Mishra	MHRD	August 2009	5.12 L	Till date

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended/ Paper presented:

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Smriti Mishra	Workshop on Outcome	BIT Mesra	Quality Assurance	BIT Mesra	July 11, 2014
		Based Education and		Cell, BIT Mesra		
		Accreditation				
2	Janmejoy	SECS 2014:	MECON	Bengal Engineering	MECON	September
	Gupta	International Conference	& bureau	& Science	Community	13-14, 2014
		on 'Sustainability and	of energy	University Alumni	Hall, Ranchi,	
		efficiency in core sectors',	efficiency	Association (Ranchi	Jharkhand.	
		Ranchi. 2014	(bee)	Chapter)		
3	Bimal	The 3 rd International	BIT Mesra	National Institute	National	October 09-
	Chandra Roy	Conference on		of Development	Institute of	11, 2014
		Advancement		Administration	Development	
		of Development		(NIDA), Bangkok,	Administration	
		Administration- 2014		Thailand	(NIDA),	
					Bangkok,	
					Thailand	
4.	Ritu Agrawal	Water Engineering:		Department of Civil	BIT Mesra	March 11-12,
		"Analytical Framework		and Environmental		2015
		for Affordable Urban		Engineering, BIT		
		Water Resource Sharing"		Mesra,		
5.	Smriti Mishra	National Conference	BIT Mesra	Department of	Department	April 10-12,
		on Sustainable Built		Architecture and	of Architecture	2015
		Environment		Planning, IIT	and Planning,	
				Roorkee	IIT Roorkee	

Publications:

International Journals:

- 1. Sarkar Satyaki, Partnership between Government and Civil Society the road ahead, International Journal of Town Planning and Management, 2015, Vol 1, No.1, 13-17.
- 2. Gupta, J. and Chakraborty, M., Perimeter-area ratios and thermal discomfort due to excess heat in rural mud architecture of Jharkhand: A study through simulation and temperature measurements in composite climate, International Journal of Applied Engineering Research, 2015, Vol.10, 2015, Number 7, pp.17503-17518. (ISSN: 0973-4562).
- 3. Roy, B.C., Role of Infrastructure availability in Industrial development of Resource-Rich states of India with respect to Jharkhand, International Journal of Advanced Technology in Engineering and Science, (2015), Vol.3, No.2, pp. 406-412.
- 4. Roy Bimal C., Sarkar Satyaki, Mandal N.R., Pandey S.K., Impact of Infrastructure availability on level of Industrial Development In Jharkhand, India: a district level analysis, International Journal of Technological Learning, Innovations and Development, 2014, Vol 7, No. 2, 93 123.
- 5. Mishra, S., Barman, J., Pandey, S.K., Local Resident's perception of Social Impacts of Urban Riverfront

- Development: Case of Sabarmati Riverfront Development Project, ABACUS, 2014, Volume 9 No. 1
- Saharan S. L., Chakraborty M. And Mandal N. R., Master Planning approach for city infrastructure development: A case study of Chandigarh City, ABACUS, vol 9, issue 1, 2014, pp 51-57 (ISSN: 0973-8339)

International Proceedings:

 Roy Bimal C. and Sarkar Satyaki, Understanding Relationship Between Infrastructure, Industrial Development and Policy Orientation for Resource Rich Districts Of Jharkhand, India, VIII WAC 2014: International Conference on Balancing Development and Environment, New Delhi, 20th-21st November 2014

National Journals:

- 1. Barman, J., and Mishra, S., Planning for Sustainable Waterfront: A Changing Perspective in Development Approach, Spatio-Economic Development Record, Vol. 21 3/4 pp.61-69 (May-August, 2014)
- 2. Panda S., Chakraborty M. and Mishra S. K., Comparative Analysis of different Urban Sustainability Practices, Journal of Civil Engineering and Environmental Technology (JCEET), vol 1, no 5, August 2014, pp. 98-104, (ISSN: 2349-8404)

National Proceedings:

- Chakraborty, M. and Gupta, J., Sustainability in Building Sector: Comparative Analysis between TERI GRIHA and IGBC-LEED regulations for a simplified generalised set of requirements mandatory for all future constructions in India. In: SECS 2014: International Conference on 'Sustainability and efficiency in core sectors', Ranchi. 2014
- 2. Mishra, S., Barman, J., Pandey, S.K., Local Resident's perception of Social and Economic Impacts of Urban Riverfront Development: Case of Sabarmati Riverfront Development Project, in National Conference on Sustainable Built Environment organised by Department of Architecture and Planning, IIT Roorkee from 10th April, 2015 12th April, 2015.

Book:

Chapter(s) in Edited Book:

1. Roy B.C., Low level of Industrial Development in the Mineral-Rich State of Jharkhand, India. In Development and Conflicts (ed. Roy Debjani), Nirmala College, Ranchi, in association with University Grants Commission, Eastern Region Office, Kolkata, 2015, pp 313-321.

Award / Recognition Bestowed on Faculties (State / National / International):

SI.	Name of the	Title of the Award/ Honours	Organisation	Year /
No.	Faculty	Thie of the riward frontiers organisation		Duration
1	Smriti Mishra	2 nos. Award certificates to acknowledge the	Institute for Steel	February'2015
		contribution of Professors in guiding a team of students	Development &	
		for Best Innovative Use of Steel in Architecture 2014	Growth	
		for National Student Award Competition		

Departmental Students' Activities:

S. No.	Name of the Activity	Students' coordinator, if any	Date/Duration
1.	INSDAG	Group I : Sayunkta Mandal, Bamsi	February 2015
		Group II : Anupama	
2.	AIU-Photography	Karan Dhawan	February 2015
3.	ITPI-Best Thesis Award	Anila Surin	December 2014

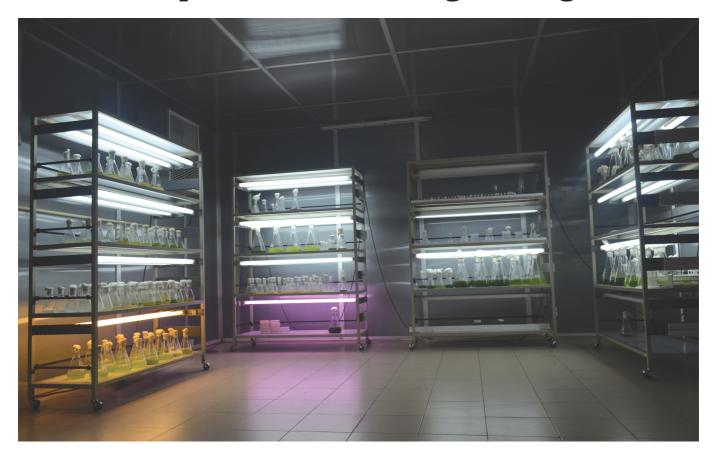
Board of Studies(UG/PG):

- Dr. DJ Biswas, Professor & Head as Chairman
- Dr. Manjari Chakraborty, Professor as Member
- Dr. Satyaki Sarkar, Associate Professor as Member
- Dr. AP Krishna, Professor & Head, Remote Sensing, as Non-Departmental expert
- Dr. Gopal Pathak, Professor & Head, Civil Engineering as Non-Departmental expert
- In-Charge of Architecture Department, BIT Patna, as representative of Off campus
- In-Charge of Architecture Department, BIT RAK, as representative of Offshore campus
- Professor BK Sengupta, of Architecture Department IIT Kharagpur, as external expert
- Mr. Rajiv Chadda, Practicing Architect in Ranchi, as external expert

Departmental Academic Committee:

- Dr. D.J. Biswas, Prof. & Head, Department of Architecture
- Dr. Manjari Chakraborty, Prof., Department of Architecture
- Dr. Satyaki Sarkar, Associate Prof., Department of Architecture
- Dr. Gopal Pathak, Prof. & Head, Department of Civil & Environmental Engineering
- Dr. Utpal Baul, Prof. & Head, Department of Management

Department of Bio Engineering



The Department has received magnificent financial support from both Union and State Governments for establishing state-of-the-art facility for academic and research activities since its inception in the year 2002. A Centre of Excellence in Bioresources and Bioprospecting has been awarded to the Department for the period May 2013 - December 2016, sponsored by TEQIP-II. Well planned Department building situated on the bank of Suvernarekha River has attracted almost every visitor of the Institute. The visitors included government officials, diplomats, technocrats, scientists and industrialists, and have recognized the Department as centre of excellence for research based academics and expressed their desires to participate and propel the scientific and technological endeavor with BIT.

Department's unique culture, in which the staffs & students are treated as assets and stakeholder of the scientific achievement, provides a congenial environment to apply multidimensional approaches to solve the scientific problems. Students of this Department are well placed in company jobs and also admitted in MS and Ph.D. programmes of foreign Institutions.

Presently, B.E. Biotechnology, M. Sc. Bioinformatics, M. Tech Biotechnology, M. Tech Bio-Medical Instrumentation, M.Sc. Biotechnology are the courses offered by the Department. 12 students enrolled in the Ph.D. programme in various fields of biotechnology such as Genomics, Proteomics and Transcriptomics, Industrial biotechnology, product development and biotechnology management in the Department and 16 candidates have submitted Ph.D. thesis in this year. Four scholars have completed their Ph.D. viva- voce. The Ph.D. degree was awarded to four scholars. Twelve students completed their projects on Bioinformatics at BTISnet Centre (DBT, GOI, New Delhi) of the Department. Refrigerated Incubator-cum-Shaker (Model: CIS-24 Plus, Make: REMI), Thermostat Plus with smart block of variable sizes (Make: Eppendorf) have been recently added to the list of instrumentation facility in the Department.

Sponsored Projects

Project Sanctioned

SI.	Due to at Title	PI / Co- PI/	Funding	Date of	Sanctioned	Duration of
No.	Project Title	Collaborator, if any	Agency	Sanction	Amount	the Project
1.	Biotransformation of	Dr.(Mrs) Shashwati	DST-	No.SB/YS/LS-	21.2	Sept 2014-Aug
	eugenol into value-	Ghosh Sachan	SERB	308/2013 Dated:		2017
	added methoxyphenols			30.6.2014		

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (In Lacs)	Duration of the Project
1	Establishment of Bioinformatics Centre under BTIS Net scheme	Dr. K. Mukhopadhyay (Coordinator) Dr. R. Poddar (Co- Coordinator)	DBT	February 2004 BT/BI/04/065/04	68.0	Feb 05 to Mar 17
2	Discovery, annotation, validation and characterization of SNPs in Wheat (Triticum aestivum L.) and haplotype structure determination using Next-Generation Sequencing Data	Dr. K. Mukhopadhyay (Project Co-ordinator) Dr. M. Kumar (Co-PI) Dr. R. Poddar (Co-PI) Multi-Institutional R&D Project Collaborators: CCSU Meerut	DBT	BT/PR3925/BID / 7 / 384 / 2011 Dt. 06.05.2012	BIT Share: 24.6	May 12 to Nov 15
3	Studies on biotechnological potential of halophilic alkaline proteases	Dr V.K. Nigam (PI) Dr. M. K. Mohan (Co-PI) Dr. A. S. Vidyarthi (Co-PI)	UGC	41-504 / 2012 (SR) 17.07.2012	7.52	July 2012 To June 2015
4.	Molecular cloning and heterologous expression of Antheraea mylitta cocoonase	Dr. D. M. Pandey/Dr. K. Mukhopadhyay	DBT New Delhi, GOI	June 2013	14.36 Lakhs	Ongoing (Extended upto 31 December 2015)
5.	A RNAi approach to induce parthenocarpy in Trichosanthes dioica Roxb. by regulating phytohormones	Dr. D. Prasad	UGC BSR	01.04.2013	6.0	April 2013 to March 2016

6.	Exploiting agricultural	Dr. A. Sachan	DST -	SERB SR/ FT/	19.4	Feb 2013
	wastes for harnessing a		SERB	LS-46/2012 Dt.		to
	value- added product			12/12/2012		March 2016
	ferulic acid					
7.	Biosynthesis of fungal	Dr. V. K. Nigam (PI)	AICTE	20 / AICTE/RIFD /	10.5	Nov 2012
	secondary metabolite	Dr. A. S. Vidyarthi		RPS (Policy-1) 24 /		to
	Lovastatin	(Co-PI)		2012-13		Oct 2015
				28 / 11 / 2012		
8.	Determination of	Dr. Y. Aggarwal	UGC	20-5(19) /	6.0	2013
	Mental Workload and		(Start-	2012(BSR)		to
	Fatigue under different		Up)			2016
	degrees of Mental Task					

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (In Lacs)	Date of completion of the Project
1.	Process optimization for bioemulsifier production by microorganisms	Dr. A. Sachan (PI)	UGC	40-160/2011 (SR) Dt. 22.06.11	5.01	Jul 11 to Jul 14
2.	Identification, characterization and molecular documentation of non-marine water chlorophycean microalgal biodiversity of Chota Nagpur Plateau	Dr. A. Pareek (PI) Dr. A. S. Vidyarthi (Co-P.I.)	UGC	40-171/2011 (SR) Dt. 22.06.11	8.678	Jul 11 to Jul 14
3.	Development of recombinant human Growth Colony Stimulating Factor	Dr. M. Kumar (PI)	UGC	40-186/2011 (SR) Dt. 05.07.2011	10.328	Jul 11 to Jul 14
4.	Process Optimization for gold nanoparticle production by microorganisms	Ms. Sneha Singh (PI) Dr. A. S. Vidyarthi (Co-PI)	UGC (Minor Research Project)	41- 1336/2012 (SR) 08.08.2012	1.5	July 2012 To June 2014
5.	To understand the nature of diversity in lac insects of Kerria spp. in India and the nature of insect x host interaction	(Network Project) Dr. A. S. Vidyarthi (Co-Investigator) Dr. K. Mukhopadhyay (Co-Investigator) Dr. B. N. Sinha (Dept. of Pharm Sciences)	NAIP, ICAR	NAIP/Comp- 4/C3007/ 2008-09 Dt. 10.01.2009	96.50	31.07.2014

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. D. M. Pandey	The Advances in qPCR & dPCR Conference-2015 at Hotel Fort Canning, Singapore	Rs. 12000/ only through RPG scheme of the BIT Mesra while Registration Fee from Organizers	Select Bioscience, Singapore	Hotel Fort Canning, Singapore	May 21-22, 2015
2.	Dr. A. Sachan	UGC Sponsored 81st Orientation Programme		UGC-Academic Staff College, Ranchi University, Ranchi		Jan 5-Feb 1, 2015
3.	Dr. S. Chandra	Workshop "Automation in Drug Discovery"	AICTE	AICTE sponsored QIP Deptt. of Pharmaceutical sciencal sciences and Technology BIT Mesra, Ranchi	Deptt. of Pharmaceutical sciencal sciences and Technology BIT Mesra, Ranchi	Nov 21-Dec 4, 2014
4.	Dr. S. Ghosh Sachan; Dr. R. Poddar	UGC Sponsored 80 th Orientation Programme		UGC-Academic Staff College, Ranchi University, Ranchi		Nov 5-Dec 2, 2014
5.	Dr. D. M. Pandey	Application of Biotechnology in Modern Pharmacognosy		Department of Pharmaceutical Sciences, BIT, Mesra, Ranchi, Jharkhand, India	Department of Pharmaceutical Sciences, BIT, Mesra, Ranchi, Jharkhand, India	Dec 11, 2014
6.	Dr. D. M. Pandey	Introduction to Bioinformatics and Biomedical Informatics		Department of Biochemistry cum Biomedical Informatics Centre (ICMR), Rajendra Institute of Medical Science (RIMS), Ranchi, Jharkhand, India	RIMS, Ranchi, Jharkhand	Dec 28, 2014
7.	Dr. D. M. Pandey	2 nd qPCR & Digital PCR Congress - 2014 scheduled at London , UK	Travel Grant from DBT GOI, New Delhi, Registration and accomodation by Organizers and Rs. 18000/ only from BIT Mesra, Ranchi	Global Engage, Private Ltd. UK	London Mariat Hotel, London , UK	October 20- 21, 2014

Publications:

International Journals

- Mukherjee, K., Pandey, D. M., Vidyarthi, A. S., In silico Characterization and Analysis of RTBP1 and NgTRF1 Protein through MD Simulation and Molecular Docking - A Comparative Study. Interdiscip. Sci. Comput. Life Sci., 2014, 6, 1-13.
- 2. Jha, S. K., Singh, H.R., Nigam, V. K., Vidyarthi, A. S., Optimization of recombinant L-asparaginase purification by Escherichia coli K-12 using three phase partitioning system by Taguchi design of experiment. J. Chem. Pharma. Res., 2014, 6, 839-843.
- 3. Jha, S. K., Sinha, R. K., Singh, H. R., Production, Purification and Kinetic Characterization of L-Asparaginase from Pseudomonas fluorescens. Int. J. Pharm. Pharm. Sci., 2014, 7, 135-138.
- 4. Jha, S. K., Pasrija, D., Singh, H. R., Production and Media Optimization of Anti-leukemic L-Asparaginase from Pseudomonas fluorescens by Taguchi DOE Methodology. Journal of Applied Pharmaceutical Science, 2014, 4, 085-089.
- 5. Jha, S. K., Kumari, M., Singh, H.R., Nigam, V. K., Vidyarthi, A. S., Optimization of solid state production of antileukemic enzyme (L-asparaginase) by E. coli K-12 using Taguchi Doe and three phase based recovery. Int. J. Current Microbiol. Appl. Sc., 2014, 3, 446-453.
- 6. Biswas, T., Kumari, K., Singh, H. R., Jha, S. K., Optimization of Three-Phase Partitioning system for Enhanced Recovery of L-Asparaginase from Escherichia coli K12 Using Design of Experiment (DOE). Int. J. Adv. Res., 2014, 2, 1142-1147
- 7. Jha, S. K., Rai, A., Singh, H. R., High Throughput Screening of Potential Inhibitors of Alzheimer's Disease Associated Tau Aggregation Protein. Int. J. Pharma. Res., 2014, 6, 62-66.
- 8. Jha, S. K., Rashmi S.S., Singh, H. R., High Throughput Screening of Quorum Sensing Inhibitors Based Lead Molecules for Pseudomonas Aeruginosa Associated Infections. Int. J. Pharma. Clinical Res., 2014, 6, 214-220.
- 9. Singh, H. R., Singh, R. R., Dubey, A. K., Jha, S. K., Effect of IVNT on Ovarian Weight, Follicle Number, Estrus Frequency and Reversibility of Reproductive Cycle in Albino Rat. Int. J. Pharma. Sc. Res., 2014, 5, 3293-3296.
- 10. Mishra, S., Sachan, A., Vidyarthi, A. S., Ghosh Sachan, S., Microbial production of 4-vinylguaiacol from ferulic acid by *Bacillus cereus* SAS-3006. Biocatal. Biotransfor., 2014, 32, 259-266.
- 11. Mishra, S., Sachan, A., Vidyarthi, A. S., Ghosh Sachan, S., Transformation of ferulic acid to 4-vinyl guaiacol as a major metabolite: a microbial approach. Rev. Environ. Sci. Biotechnol., 2014, 13, 377-385.
- 12. Pandey, D. M., Pandey, J. P., Cocoonase Enzyme: Current and Future Perspectives. Austin J Biotechnol Bioeng., 2014, 1, 2.
- 13. Sachan, A., Mishra, S., Singh, S., Nigam, V. K., Production of ferulic acid esterase from Trichophyton ajelloi MTCC4878. Int. J. Basic Appl. Biol., 2014, 2, 13-17.
- 14. Shamim, S., Pandey, D. M., Ramani, R., Sharma, K. K., Identification of genes related to resin biosynthesis in the Indian lac insect, Kerria lacca (Hemiptera: Kerriidae). Inter. J. Trop. Insect Sci., 2014, 34, 149–155.
- 15. Ranjan, A., Kumari, A., Pandey, D. M., Annotation of stress responsive candidate genes in peanut ESTs. Interdiscip. Sci. Comput. Life Sci., 2014, 6, 1-9.

- 16. Bhaskar, A., Mukhopadhyay, K., Kumar, M., Effect Of Polysorbate-80 Concentration On G-Csf Formulation Using Liquid Chromatography. Int. J. Pharm. Pharm. Sci., 2014, 6, 299-302.
- 17. Kumar, D., Singh, D., Kanodia, P., Prabhu, K.V., Kumar, M., Mukhopadhyay, K., Discovery of novel leaf rust responsive microRNAs in wheat and prediction of their target genes. Journal of Nucleic Acids, 2014, Article ID 570176
- 18. Kumar, A., Sasmal, D., Bhaskar, A., Mukhopadhyay, K., Thakur, A., Sharma, N., Deltamethrin-Induced Oxidative Stress and Mitochondrial Caspase-Dependent Signaling Pathways in Murine Splenocytes. Environmental Toxicology, 2014, DOI: 10.1002/tox.22091
- 19. Sharma, R., Soy, S., Kumar, C., Ghosh Sachan, S., Sharma, S. R., Analysis of gallstone composition and structure in Jharkhand region. Indian J. Gastroenterol., 2015, 34, 29-37.
- Kumar, A., Bhaskar, A., Chandra, S., Sasmal, D., Mukhopadhyay, K., Sharma, N., Mechanism of Deltamethrin induced Immunotoxicity: Current and Future Perspectives. Receptors & Clinical Investigation, 2015, 2: e578. doi: 10.14800/rci.578
- 21. Dhariwal, R., Gahlaut, V., Bhaganagare, R. G., Singh, D., Mathur, S., Vyas, S., Bandopadhyay, R., Khurana, J. P., Tyagi, A. K., Prabhu, K. V., Mukhopadhyay, K., Balyan, H. S., Gupta, P. K., Stage-specific reprogramming of gene expression characterizes Lr48-mediated adult plant leaf rust resistance in wheat. Funct. Integr. Genomics, 2015, DOI 10.1007/s10142-014-0416-x
- 22. Panche, A., Chandra S., Diwan, A.D., Harke, S., Alzheimer's and current therapeutics: a review. Asian J. Pharm. Clin. Res., 2015, 8, 14-19.
- 23. Kumar, V. and Chandra, S., LC-ESI/MS determination of xanthone and secoiridoid glycosides from in vitro regenerated and in vivo Swertia chirayita. Physiol. Mol. Biol. Plants, 2015, 21, 51–60.
- 24. Kumar, A., Pandey, D. M., Ramachandran, P., Abraham, T., Mathew, J., Jyothsna, P., Malathi, V. G., Molecular characterization of viroid associated with Tapping Panel Dryness (TPD) syndrome of Hevea brasiliensis from India. Curr. Sci., 2015, 108, 1520-1527.
- 25. Mishra, A., Ghosh Sachan, S., Pandey, D. M., Maize rhizosphere microbial population in soils of Jharkhand. Int. J. Pharm. Pharm. Sci., 2015, 7, 218-222.
- 26. Prajapati, G. K., Pandey, D. M., Molecular Beacon probe based promoter motifs validation in anoxia responsive DEGs and their in silico interaction studies with AP2/EREBP TF in rice (Oryza sativa L.). Int. J. Pharm. Pharm. Sci., 2015, 7, 123-130.
- 27. Perween, Q., Anand, V., Singh, H. R., Jha, S. K., Enhanced Recovery of L-glutaminase by The Optimization of A Three-phase Partitioning System Using The Taguchi Doe Methodology. Int. J. Pharma. Clinical Res., 2015, 7, 216-220.
- 28. Anand, V., Perween, Q., Sinha, R. K., Singh, H. R., Jha, S. K., Screening of L-glutaminase Producer and Optimization of Production Process by Taguchi Orthogonal Array. Int. J. Pharma. Clinical Res., 2015, 7, 246-251.
- 29. Jha, S. K., Singh, H. R., Nigam, V. K., Vidyarthi, A. S., A Heuristic Approach for the enhanced recovery of anti-leukemic L-Asparaginase from Bacillus licheniformis by the Statistical optimization of Three-Phase Partitioning system. Int. J. Pharma. Clinical Res., 2015, 7, 144-147.

- 30. Kumari, K., Biswas, T., Singh, H. R., Jha, S. K., Screening of Medium Components for The Enhanced Production of Pseudomonas fluorescens L-Glutaminase by Plackett Burman Design. Int. J. Advance Res. 2015, 3, 177-185.
- 31. Eugenol biotransformation by Pseudomonas fluorescens NCIM 2100. 2015 Int. J. Basic Appl., Biol., 2015, 2, 250-252.
- 32. Yadav, A. N., Ghosh Sachan, S., Verma, P., Saxena, A. K., Prospecting cold deserts of north western himalayas for microbial diversity and plant growth promoting attributes. J. Biosci. Bioeng., 2015, 119, 683-393.
- 33. Yadav, A. N., Ghosh Sachan, S., Verma, P., Saxena, A. K., Tyagi, S. P., Kaushik, R., Culturable diversity and functional annotation of psychrotrophic bacteria from cold desert of Leh Ladakh (India). World J. Microbiol. Biotechnol., 2015, 31, 95-108.
- 34. Singh, S., Nigam, V. K., Sachan, A., Parametric optimization of ferulic acid esterase production from Mucor hiemalis NCIM 837. Int. J. Pharm. Pharm. Sci., 2015, 7, 230-233.

International Proceedings

- 1. Prajapati, G. K., Kumar, A. and Pandey, D. M., Identification of GCC box and TCC box promoter motifs in differentially expressed genes using Molecular Beacon probe—based Real Time PCR assay and in silico protein DNA interaction in rice. In Proceedings of the Advances in qPCR & dPCR Conference-2015, Hotel Fort Canning, Singapore, May 21-22, 2015.
- 2. Pandey, J. P., Sinha, A. K., Kundu, P. and Pandey, D. M., Physiochemical and proteomic depiction of Antheraea mylitta cocoonase. In Proceedings of the Indian Genetics Congress-2015 (IGC-2015), SRM University, Tamil Nadu, India, March 04-06, 2015.
- 3. Kumari, D., Kumari, S., Ram, M. K., Kumari, A. and Pandey, D. M., In silico study on prediction of miRNAs and their related SNPs in Arachis hypogaea L. In Proceedings of the 5th International Conference on Next Generation Genomics and Integrated Breeding for Crop Improvement (NGGIBCI-V), ICRISAT, Patancheru, India, February 18-20, 2015.
- 4. Kumari, R., Prajapati, G. K., Wany, A., Prasad, S., Kumar M. and Pandey, D. M., Differential expression of some genes under cold stress in rice cultivars. In Proceedings of the 2nd International Conference on Biotechnology and Bioinformatics (ICBB-2015), International centre for stem cells, cancer and biotechnology (ICSCCB), Pune, India, February 06-08, 2015.
- Divya., Panjiar, N., Mishra, S., Sachan, A. and Ghosh Sachan, S., Microbial transformation of eugenol into valuable products. In Proceedings of the 55th Annual Conference of Association of Microbiologists of India (AMI-2014) and National Conference on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, November 12-14, 2014.
- Deep, A., Panjiar, N. and Sachan, A., Enhancement of bioemulsifier production by bacterial isolate SP2058. In Proceedings of the 55th Annual Conference of Association of Microbiologists of India (AMI-2014) and National Conference on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, November 12-14, 2014.

- Gami, A., Singh, S. and Sachan, A., Microbial release of ferulic acid from agricultural residues. In Proceedings of the 55th Annual Conference of Association of Microbiologists of India (AMI-2014) and National Conference on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, November 12-14, 2014.
- 8. Prajapati, G. K., Kumar, A. and Pandey, D. M., Molecular Beacon Probe–Based Real Time PCR Assay for the Identification of Promoter Motifs in Rice. In Proceedings of the 2nd qPCR & Digital PCR Congress 2014, London Marriot Hotel, London, UK, October 20-21, 2104.Book:

Chapter(s) in Edited Book:

1. Kumari, M., Chandra, S., Stevia rebaudiana: Beyond sweetnes. In: Handbook of Medicinal Plants and their Bioactive Compounds (ed. Gupta, N.), Research Signpost, India, 2014, pp. 11-26.

Award / Recognition Bestowed on Faculties (State / National / International)

SI.	Name of the	Title of the Award/	Organisation	Year / Duration
No.	Faculty	Honours	Organisation	rear / Duration
1.	Dr. D. M. Pandey	Young Scientist Award	Indian Genetics Congress-2015 at SRM	March 04-06,
			University, Kattankulathu, Tamil Nadu,	2015
			India	
		DBT Travel Grant Award-2014	2 nd qPCR and Digital PCR Congress-2014,	October 20-21,
		for presenting research findings	London Marriot Hotel, London, UK	2014
		Judge in CBSE Science	DPS Ranchi, Jharkhand, India	August 11, 2014
		Exhibition		
		Chair in the Environmental,	2 nd qPCR and Digital PCR Congress-2014,	October 20-21,
		Plant and Food Case Studies	London Marriot Hotel, London, UK	2014
		Stream		
		Juri Member for District Level	Sant Robert Higher Secondary, Sindoor,	August 11, 2014
		DST INSPIRE Program	Hazaribag, Jharkhand	

MoU / Collaborations

Sl. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1.	Max Planck Institute of Biophysical	Collaborative study on SNARE Genes	July 2014 / 03 Years
	Chemistry, Gottingen Germany	during plant-pathogen interaction	
2.	University of Padova, DAFNAE, Italy	Study on climate change	January 2015 / 03 Years

Board of Studies (UG/PG)

1.	Dr. K. Mukhopadhyay	Head & Chairman
2.	Dr. Usha Jha	Member
3.	Dr. S. Jha	Member
4.	Dr. D. M. Pandey	Member

5. Dr. Manish Kumar Member 6. Dr. S. Ghosh Sachan Member

Panel of Experts from outside of the Institute: (Any One)

1. Prof. P. Ghosh Executive Director, BISR, Jaipur

2. Associate Professor Dr. Adinpunya Mitra

Dept. of Agricultural & Food Engineering

IIT, Kharagpur, Kolkata – 700019

3. Dr. R. Ramani Director, IINRG, Namkum, Ranchi

4. Dr. Manoj Prasad Scientist V, NIPGR, New Delhi

Departmental Academic Committee (Member of DAC July 2014-June 2015)

1.	Head, Dept. of Bio-Engineering	Chairman
2.	Dr. K. Mukhopadhyay, Prof., Bio-Engineering	Member
3.	Dr. R. Chandra, Assoc. Prof., Bio-Engineering	Member
4.	Dr. D. M. Pandey, Assoc. Prof., Bio-Engineering	Member
5.	Dr. Manish Kumar, Asst. Prof., Bio-Engineering	Member
6.	Dr. Raju Poddar, Asst. Prof., Bio-Engineering	Member
7.	Dr. Ashish Sachan, Asst. Prof., Bio-Engineering	Member
8.	Dr. S. Chandra, Asst. Prof., Bio-Engineering	Member
9.	Dr. Usha Jha, Prof. & Head, Applied Chemistry	Member
10.	Dr. S. Jha, Prof., Pharmaceutical Science & Technology	Member

Department of Chemical Engineering & Technology



The Department of Chemical Engineering & Technology offers two undergraduate programmes - BE(Chemical Engineering) and B.E (Chemical Engineering –Plastics & Polymers), and two post graduate programmes - ME (Chemical Engineering) The Department also provides facilities for Doctoral Research in Engineering and Technology in the areas related to Chemical Engineering & Technology, Polymer Science and Engineering, Chemical Technology including Food Technology. The Department is a DST FIST Department, and also winner of the Gold Trophy for Plasticon Award 2012 in the category of Best Educational Institution Contributing to Plastics. Major grant of 1 Core has been sanctioned by Ministry for Food Processing Industries for the introduction of M.Sc. (Food Technology) programme.

The undergraduate programme BE (Chemical Engineering) imparts high standard training, emphasizing on Chemical Engineering fundamentals - Heat Transfer, Mass Transfer, Fluid Mechanics, Process Control, Reaction Engineering, Computer Aided Engineering etc.

The Department has modern and sophisticated Laboratories and workshop facilities such as Chemical Engineering Unit Operation laboratory, Chemical Reaction Engineering, Process Control Laboratory, Fuel technology Laboratory, Synthesis Laboratory, Polymer Characterization Laboratory, Polymer Processing Workshop and Product Development Laboratory including a mould design and manufacturing facility.

The research areas in the Department include Catalytic Reaction Engineering, Multiphase Flow, Polymer Composites, Alternative Energy, Pollution Control, Water Treatment Technologies, Polymer Blends and Interpenetrating Polymer Networks, Nano filtration Membrane, Recycling of Polymer Waste, Specialty Polymer, Colloids and Interfacial Science, Tissue Engineering, Sensors, Fuel Cell Membrane etc. New acquisitions in this

year are Cyclone Separator and Tray Dryer for Unit Operation Laboratory. The Department also coordinates the activities of "Design Development and Training Centre in Plastics Engineering", a joint venture of Department of Industries, Government of Jarkhand and BIT Mesra.

Centre for Food Processing Technology & Quality Control: The Centre for Food Processing & Quality control received grants from Ministry of Food Processing Industries to set up Food Processing Laboratory and Quality Control Laboratory. The Centre offers 5 year Integrated M.Sc (Food Technology). The Food Quality Control Laboratory includes Lyophilizer, Polarimeter, Microscope, Laminar flow clean Air workstation, UV-VIS Spectrophotometer, HPLC, Digital Photoflurometer, spectral analyser, spray drier, texture analyser, fibre extraction unit, AAS etc.

Sponsored Projects Project Sanctioned

SI. No.	Project Title		/ Co llabo if an	rator,	Funding Agency	Date of Sanction	Sanctioned Amount (lakhs)	Duration of the Project
1	Development of organophosphorous	PI:	Dr	Akhil	NRB,	24.02.15	Rs 24.95	Three Years
	flame retardants for epoxy and vinyl		nar Se	n	DRDO			
	ester resin							

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (lakhs)	Duration of the Project
1	Developing suitable Pedagogical methods for various classes,	PI: Prof (Mrs) S Goswami Co-PI: Dr. Akhil Kumar Sen	Ministry of HRD Govt of India, (Mentor IIT Kharagpur)	2014-2016	Rs 7.00	Two years
2	Human Resource development - Creation of Infrastructure facilities for running degree / diploma course in Food Technology of National Mission on Food Processing (NMFP)-2013-17	Head of the Department	National Mission on Food Processing Directorate of Industries Govt. of Jharkhand	28.02.2014	Rs. 100.00	5 years
3	Development of Infrastructure for Polymer blends & nanocomposite Laboratory	Head of Department	DST-FIST	31.1.11	Rs. 67.0	3 Years
4	Toughening of Epoxy for PAN Carbon composite	Dr. M. Mukherjee Dr. G. Sarkhel Dr Akhil Sen Dr. G.T. Mohanraj	DRDL, Hyderabad Govt. of India	12.11.10	Rs. 9.471	4 years
5	Preparation of novel Poly(m- aminophenol) /functionalised carbon nanotube nanocomposite for selective sensing of aliphatic alcohols.	PI: Dr. Arup Choudhury Co-PI: Dr. Pradip Kar	DST-SERC, Govt. of India	12/01/2012	Rs. 24.95	3 years

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

Si No		Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	L	One Week STTP On ANALYSIS OF	Dr. Gautam Sarkhel	TEQIP - II	19 th – 23 rd Jan, 2015
		COMPOSITE MATERIALS			

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Mr. A.K.Tiwari Mr. S.K.Jana Mr. Sudeepan. J Mrs. D. Ghosh	Two-week QIP Programme on Recent Advances in BioPharmaceutics	AICTE	BIT Mesra	Department of Pharmacy	07 th – 20 th Nov, 2014
2	Mr. Sudeepan. J Dr. Raghu Raja Pandiyan	One week short term course on Transport Processes Optimization Techniques in Polymers	QIP	IIT, Guwahati	Department of Chemical Engg., IIT, Guwahati	15 th – 20 th Dec, 2014
3	Mr. Sudeepan. J Dr. Raghu Raja Pandiyan	One week QIP course on Micro manufacturing	QIP	IIT, Guwahati	Department of Mech. Engg., IIT, Guwahati	22 nd – 26 th Dec, 2014
4	Mr. Sudeepan. J	One week STTP on Analysis of Composite Materials	TEQIP	BIT, Mesra	Department of Chemical Engg., BIT, Mesra	19 th - 23 rd Jan, 2015
5	Dr. Tapas Palai Dr. Bidhan Chandra Ruidas	Safety, health & environmental management in oil refining & pipeline transportation	TEQIP	IOCL, Haldia Refinery, West Bengal	IOCL, Haldia Refinery, West Bengal	17 th April to 19 th April 2015
6	Dr. Tapas Palai Dr. Amit Tiwary	Workshop on accreditation of food testing laboratories	TEQIP	Indian Council of Agricultural Research New Delhi	Indian Council of Agricultural Research	18 th June to 19 th June 2015

Publications:

International Journals

- 1. Coating properties of shellac modified with synthesised epoxidised-novolac resin" by F, Ansari, B, Baboo, D. N. Goswami, Gautam Sarkhel in Pigment & Resin Technology, Volume 43 issue 5, 2014.
- 2. S. Shekhar, M. Mukherjee and A.K.Sen, "Synthesis and characterization of Thermoresponsive terpolymer for protein separation" Int. J. Poly. Mat. and Poly. Biomat. 2014, 63, 389-397.

- 3. P. Swain, S.K. Nayak, A. Sasmal, T. Behera, S.K. Barik, S.K. Swain, S.S. Mishra, A.K. Sen, J.K. Das, P. Jayasankar, "Antimicrobial activity of metal based nanoparticles against microbes associated with diseases in aquaculture", World Journal of Microbiology and Biotechnology, 2014, 30, 2491-2502.
- 4. P. Swain, A. Sasmal, S. K. Nayek, S. K. Barik, S. S. Mishra, K. D. Mohapatra, S. K. Swain, J. N. Saha, A. K. Sen, P. Jayasankar, "Evaluation of selected metal nanoparticles on hatching and survival of larvae and fry of Indian major carp, rohu (Labeo Rohita)" Aquaculture Research, 2014, 1-14.
- 5. Pandey, D. and Deo, G., Promotional Effects in Alumina and Silica Supported Bimetallic Ni-Fe Catalysts during CO₂ Hydrogenation. J. Mol. Catal. A: Chem., 2014, 382, 23-30.
- 6. Sudeepan, J, Kumar, K, Barman, T. K, Sahoo, P., Study of mechanical and tribological properties of ABS/clay polymer composite using taguchi optimization method. J. Manuf. Tech. Res., 2014, 6, 153-175.
- 7. Datta, P., Guha, C., & Sarkhel, G. (2014) Study of Mechanical, Thermal, Morphological, and Process Rheology of Acrylonitrile Styrene Acrylate (ASA)/ Na⁺¹ Poly(ethylene-co-methacrylic acid) Ionomer Blend. Polym. Eng. Sci., 55(7), 1571-1579.
- 8. Sudeepan, J, Kumar, K, Barman, T. K, Sahoo, P., Study of mechanical and tribological properties of ABS/ZnO polymer composites. Int. J. Adv. Mat. Manf. Char., 2015, 5, 125-135.
- 9. Sudeepan, J, Kumar, K, Barman, T. K, Sahoo, P., Mechanical and Tribological Behavior of ABS/TiO2 Polymer Composites and Optimization of Tribological Properties Using Grey Relational Analysis. J. Inst. Eng. India Ser. C., 2015, 1-13.
- 10. Arnav Prakash, Gautam Sarkhel, Kaushik Kumar., Multi-objective Optimization of Wear Properties for Kaolin Reinforced Epoxy Composite with Grey-Taguchi Technique. International Journal of Applied Engineering Research, Vol. 10 No.55 (2015).
- 11. Arnav Prakasha, Gautam Sarkhel Kaushik Kumar., Multi-objective Strength Optimization for Kaolin Reinforced Epoxy Composite Using Grey-Taguchi Approach. International Journal of Applied Engineering Research, Vol. 10 No.55 (2015).
- 12. Abhishek Das and Gautam Sarkhel., Effect of Stoichiometric Ratios for Synthesized Epoxy Phenolic Novolac (EPN) Resins on Their Physicochemical, Thermomechanical & Morphological Properties. Pigment & Resin Technology, 2015, Accepted.
- 13. Pandey, D. and Deo, G., Determining the Best Composition of a Ni-Fe/Al $_2$ O $_3$ Catalyst Used for the CO $_2$ Hydrogenation Reaction by Applying Response Surface Methodology. Chem. Eng. Commun., 2015, DOI: 10.1080/00986445.2014.1001889.
- 14. Datta, P., Guha, C., & Sarkhel, G. (2015) Mechanical, Rheological, and Electrical Properties of Multiwalled Carbon Nanotube Reinforced Nanocomposites of 50/50 Acrylonitrile Styrene Acrylate/Zn+2 poly(ethylene-co-methacrylic acid) Ionomer Blend. Polym. Plast. Technol. Eng., DOI:10.1080/03602559.2015.1050516.
- 15. Datta, P., Guha, C., & Sarkhel, G. (2015) Morphological, Dynamic Mechanical, Creep and Weathering Behavior of Carbon Nanotube Reinforced 50/50 ASA/Zn-Ionomer Blend. Polym. Plast. Technol. Eng., Accepted.
- 16. Datta, P., Guha, C., & Sarkhel, G. (2015) Mechanical, Rheological and Electrical Properties of Multiwalled Carbon Nanotube Reinforced ASA/Na-Ionomer Blend. J. Appl. Polm. Sc., DOI: 10.1002/APP.42516.
- 17. Datta, P., Guha, C., & Sarkhel, G. (2015) Thermal, Dynamic Mechanical and Creep Behavior of Carbon Nanotube Reinforced ASA/Na-ionomer Blend. Polym. Adv. Technol. ,DOI: 10.1002/pat.3567.

ANNUAL REPORT

- 18. KalpanaMahato, ApoorvaAmbarkar, SudiptaGoswami, Morphology and Mechanical Properties of Sisal Fibre /Vinyl Ester Composites, Fibres and Polymers, Accepted.
- 19. SudiptaGoswami, KalpanaKiran, PMMA/PHEA Interpenetrating Network Embedded with Iron Oxide Nanoparticles for Drug Delivery Applications, International Journal of Polymeric materials and Polymeric Biomaterials, Accepted.
- 20. Arup Choudhury, Jeliza S. Bonso, Melissa Wunch, Kap Seung Yang, John P. Ferraris and Duck J. Yang. In-situ synthesis of vanadium pentoxide nanofibre/exfoliated graphene nanohybrid and its supercapacitor applications. Journal of Power Sources 2015, 287, 283-290.
- 21. Sushil K Verma, Pradip Kar, Duck J. Yang, Arup Choudhury*. Poly(m-aminophenol)/functionalized multiwalled carbon nanotube nanocomposite based alcohol sensors. Sensors & Actuators B: Chemical 2015, 219, 199-208.
- 22. Sushil K Verma, Pradip Kar, Arup Choudhury. Interaction of multi-walled carbon nanotube with poly(maminophenol) in their processable conducting nanocomposite. Physica Status Solidi A: Applications and Materials Science 2015, 212 (9), 2044–2052.
- 23. Arup Choudhury, Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. RSC Advances 2014, 4 (17), 8856-8866.
- 24. Arup Choudhury, Carboxyl-functionalized MWCNT doped poly(o-toluidine) nanohybrids: Synthesis, characterization with AC electrical and dielectric properties. Synthetic Metals 2014, 188, 13-20.
- 25. Arup Choudhury, Abdelaziz Rahy, Changheon Kim, Sungwoo Ryu, Jaewon Hwang, Soon Hyung Hong and Duck J. Yang. A simple/green process for the preparation of composite carbon nanotube fibers/yarns. RSC Advances 2014, 4, 43235-43240.

International Proceedings

- 1. Sudeepan, J, Kumar, K, Barman, T. K, Sahoo, P., Study of Friction and Wear Properties of ABS/Kaolin Polymer Composites Using Grey Relational Technique. Procedia Technology., 2014, 14, 196-203.
- 2. Sudeepan, J, Kumar, K, Barman, T. K, Sahoo, P., Study of Tribological Behavior of ABS/CaCO3 Composite Using Grey Relational Analysis. Procedia Technology., 2014, 6, 682-691.

Book:

Chapter(s) in Edited Book

1. Sudipta Goswami, Kalpna Kiran, Polymeric IPNs for Biomedical Application, edited by Munmaya Mishra :Encyclopedia of Biomedical Polymers and Polymeric Biomaterials, Accepted

Departmental Students' Activities

SI. No.	Name of the Activity	Students' coordinator	Date/Duration
1	Under Graduate Engineering students under took Vocational training at ONGC, TATA Steel Ltd., ONGC, NTPC, MECON, CSIR-NML, RDCIS-SAIL, SAIL (Bokaro), Hindalco Industries Ltd., ICT, IOCL (Mathura,Panipat,Haldia, Barauni), Schenk Process India Ltd., L & T Hydrocarbon Engineering, MCC PTA India Corporation Pvt Ltd., TATA Steel, HPCL Visakh Refinery, Orient Paper Industried Ltd, CMPDI, Deepak Fertilizer & Petrochemical Corp. Ltd., Orient Cements, HPCL Visakha Refinery, NTPC (M.P), MNIT, Aditya Birla Chemicals India Lid., HEC Ltd., Usha Martin, Ranchi Dairy		May-June 2015
2	COLESENCE 2015, National Students Technical Events, organised by IIChE BIT mesra Students Chapter	Sovan Patra	April 11-12, 2015
3	Visit to Advantage Jharkhand : Students of I. MSc. Food Technology, Chemical Enginnering and from other allied Departments were visited all the stalls of Advantage Jharkhand		23 &24/04/2015
4	IIChE students chapter BIT Mesra organized "Chem-E-Boat" Competition, during Pantheon 2014 at BIT Mesra	Sovan Kr. Patra, Ezaz Dheeraj Kumar Jha	Sept., 2014

$\textbf{Board of Studies} \; (\textbf{UG/PG})$

Sl. No.	Name	
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Prof. (Mrs.) M. Mukherjee	Member
3	Dr. Gautam Sarkhel	Member
4	Dr. (Mrs.) S. Goswami	Member
5	Dr. Akhil Kumar Sen	Member
6	Dr. P. Raghuraj	Member
7	Dr. (Mrs.) M. Janhi L. Kishore	Member
8	Dr. A. Kumar (I), Professor, Dept. of Mechanical Engg	Member
9	Dr. (Mrs.) U. Jha, Professor Dept. of Chemistry	Member
10	Dr. (Mrs.) P Padmanabhan, Department of Bio - Engineering	Member

External Member

Sl. No.	Name of Member, Designation, Institute/Company, Full Address
1	Prof. A. N. Samanta
	Dean PG and Research, Dept. of Chemical Engineering, IIT, Kharagpur
2	Prof. Parthapratim Gupta
	Dean Research and Consultancy, Dept. of Chemical Engineering, NIT, Durgapur
3	Prof. A. K. Ghosh, Centre for Polymer Science and Engineering, IIT, Delhi
4	Prof A.K. Datta, Department of Food and Agriculture Engineering, IIT Kharagpur
5	Prof A.K.Chauhan
	Centre for Food Science and Technology, BHU,
6	Dr. K. Naskar, Rubber Technology Centre, IIT Kharagpur
7	Dr. T. K. Das, SAIL, R & D
8	Dr. S. K. Nayak, Director General, CIPET
9	Dr Samik Gupta, Senior Scientist, SABIC Global research Centre, Bangalore

Departmental Academic Committee

Sl. No.	Name of Member	Designation (DAC/AC)
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Prof. (Mrs.) M. Mukherjee	Member
3	Dr. Gautam Sarkhel	Member
4	Dr. (Mrs.) S. Goswami	Member
5	Dr. Akhil Kumar Sen	Member
6	Dr. G. T. Mohan Raj	Member
7	Dr A. Choudhury	Member
8	Dr. P. Raghuraj	Member
9	Dr. A. Kumar (I) Dept. of Mechanical Engg	Member
10	Dr. (Mrs.) U Jha Dept. of Chemistry	Member
11	Guide(s) of the Candidate	Member

Other Important Information

- 1. Dr. T. K. Das from SAIL R&D delivered a lecture on Coal Carbonisation on 11th April 2015.
- 2. Dr Abhijit Sarkar Research Scientist, Michigan Molecular Institute, Midland, MI 48640, USA delivered a lecture on preparation of organic molecules for second order and third order nonlinear optical materials on 20th November 2015.
- 3. Participation in Advantage Jharkhand: A Departmental representation was made by Department of Chemical Engineering and Technology through making a stall in the Advantage Jharkhand on 23 &24/04/2015, which was organized by Department of Industries, Government of Jharkhand, at Khelgaon Ranchi. The stall showcased our Department's facilities, expertise and commitment towards human resource development in the area of Food Technology.
- 4. Mr. M. P. Chopra, Dr. Amit Kumar Tiwari & Dr. Tapas Palai participated in seminar on "Advantage Jharkhand" organized by DIC, Ranchi-Jharkhand at Khelgaon on 24/04/2015. They interacted with large number of entrepreneur.

Department of Chemistry



The Department was established in 1955 as a support Department offering various chemistry courses for the BE programmes and other post graduate programmes like M.Tech in Env. Sc. & Engineering, M.Tech in Nano Sc. & Technology and I.M.Sc.

The Department currently offers following programmes:

Programmes Offered	Intake
Integrated M.Sc. in Chemistry – (5-years,10- semesters)	40
M. Sc. in Chemistry – (2-years, 4- semesters)	15

Ph. D. Programmes in various discipline of Chemistry and Applied Chemistry.

The Department has received support under "Fund for Improvement in Science & Technology Infrastructure" (FIST-2012) programme of the Department of Science and Technology, New Delhi for NMR and Computational Chemistry facility. Recently we have received the Instruments as well as all the accessories that will be installed soon. The Department has also received significant funds from World Bank under TEQIP–I which has helped in creating a central Instrumentation Facility with sophisticated instruments like :ICP-AES, AAS, FTIR, GC, UV-Vis, GC-MS, HPLC, HPTLC, DSC, TGA, SEM, AFM and Electrochemical Analyzer. Through the funds obtained from UGC XIth plan the Department has developed a state of art Synthesis Lab which caters to the needs of PG students & research scholars.

The Department has quality research programs supported by UGC, SERB-DST, DBT, AICTE, CSIR etc.. The faculty members are actively involved in research in the fields of pure and applied chemistry and have various publications in high-impact journals.

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The Department runs a post graduate programme M.Sc. in Chemistry from Session 2009 and is continuing. This program designed to provide an in-depth knowledge in various aspects of Chemistry relevant to current educational and research prospects in Organic & Medicinal Chemistry, Environmental & Inorganic Chemistry, Electrochemistry, Materials, Computational/Theoretical and Physical Chemistry. This curriculum expands not only the scope of traditional chemistry courses but also various interdisciplinary courses by encouraging students to apply various R&Ds, companies and other well-known institutes. The aim of this program is to prepare students for entry into Ph.D. programs, academics, industries and careers in R & D laboratories.

The Department has also started an Integrated M.Sc. in Chemistry programme in the year 2011. This programme lays emphasis on mastering interdisciplinary concepts. Biology, chemistry, mathematics, physics, electronics and computers are intertwined, in lectures and in labs, to achieve a dynamic understanding of a wide range of fundamental principles within the modern scientific method. The result is a community of students trained in, and dedicated to, an interdisciplinary strategy for learning, and ultimately advancing, the many directions of science. Learning the foundations of physical, mathematical and life sciences in an integrated, active-learning classroom has the effect of producing students who are well prepared for delving into diverse areas of research. In addition to meeting disciplinary learning outcomes in biology, chemistry, mathematics, physics and computers, the students develop skills in teamwork, real problem solving, and communication.

The Department conducted workshops for the 10+2 students and teacher by Vigyan Prasar. Recently, the east zone nodal chapter for Indian Society of Chemists and Biologists (ISCB) has been started. The Department purchased two new instruments (AUTOLAB Potentiostat/Galvanostat and Peccel Solar Simulator) under the BIT instrument budget 2014-15.

A few major instruments procured during 2014 – 15 are:

Sl. No.	Name of the equipment procured	Funding Agency
1.	400 MHz NMR	DST-FIST
2.	AUTOLAB Electrochemical Analyzer	Institute
3.	Solar Simulator	Institute
4.	Molecular Modeling Software	DBT MED

Sponsored Projects

Project Sanctioned

SI.	Project Title	PI	/ Co- PI/	Funding	Date of	Sanctioned	Duration of
No	Project fille	Collabo	orator, if any	Agency	Sanction	Amount	the Project
1.	Microwave Ba	sed Dr Sumi	t Mishra	AICTE	1.4.15	14.11 Lacs	3 years
	Synthesis of Pol	y-2-					
	hydroxyethylmethacryl	ate/					
	Cinnamic acid grafted g	guar					
	and its applications						

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Synthesis, characterization and electrochemical study of biologically active manganese complexes	Dr. Subhendu Naskar	UGC	01/07/2012	11.45 Lac	3.5 Yr
2.	Cobalt Oxide – Graphene Nano- composite as Anode Material for High Performance of Lithium Ion Battery	Dr. Poulomi Roy	SERB - DST	22/03/2014	21 Lac	3 Yrs.
3.	Metal Oxide Core-Shell Nanostructures as Anode Material for Lithium Ion Batteries	Dr. Poulomi Roy	CSIR	03/03/2015	23 Lac	3 Yrs.
4.	Microwave Based Synthesis of Graft copolymers of Barley, its Characterizations and Applications	Dr. Sumit Mishra	DST	1.3.12	26.5 Lacs	3 Yrs
5.	Synthesis of polysaccharide based graft copolymers of cinnamic acid and their applications for fruit juice clarification		DST	17.06.14	21.9 Lacs	3 Yrs
6.	DST FIST Infrastructure Fund	Head, Chemistry	DST	2014	160 Lacs (DST: BIT = 1:1) + 50 Lacs	3 yrs.
7.	Development of Polymer ceramic Nano-composites with High Dielectric Constant	Dr. Barnali Dasgupta Ghosh	SERB - DST	2014	22.9 Lacs	3 Yrs.
8.	Induced doping of chemically synthesized processable conducting poly-phenylenediamine	Dr. Pradip Kar	SERB - DST	2013	21.53 Lacs	3 Yrs

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Synthesis, Characterisation and reactivity study of Biologically relevant and Industrially important Coordination Complexes of Mn, Co, Ni, Cu and Zn with N, O and S donor ligands	Dr. Subhendu Naskar	CSIR	01.07.2012	20.00 Lac	30.06.2015
2.	Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM), characterizations and applications as flocculant for waste water treatment		UGC	1.3.11	5.97 Lacs	28.2.14
3	Ion beam treated HAP coating on alumina for orthopaedic implants	Dr. Deep Shikha	DST	February 2012	17.05 lac	Feb 15
4.	Preparation of Novel Poly (m-aminophenol)/ functionalised carbon nanotube nano-composites selective sensing for aliphatic alcohol	Dr. Arup Choudhury and Dr. Pradip KAR	DST	Jan 2012	24.95 Lacs	Jul 2015

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI.	Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Multidisciplinary workshop on science	Dr. Ashoke Sharon	DST, Vigyan Prasar	24-26 March, 2015
	and Technology			

Conferences/ Seminars/ Workshops/ Short-term Courses/Staff Development Programmes attended

S1. No	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. S. Naskar	Multidisciplinary workshop on science and Technology	DST	VigyanPrasar	BIT-Mesra	24-26 March, 2015
2.	Dr. S. Naskar	ISTE STTP on Environmental Studies	MHRD	IIT-Bombay	BIT-Mesra	02-12 June'2015
3.	Dr. Poulomi Roy	The 14th Theoretical Chemistry Symposium	CSIR	CSIR-NCL Pune and IISER Pune	CSIR-NCL	December 18- 21, 2014
4.	Dr. Poulomi Roy	International conference on NanoEnergy	Nanos Mat	Univ. of Manchester	Manchester, UK	June 1-3, 2015
5.	Dr. Poulomi Roy	Orientation Programme	UGC	ASC, Ranchi	Academic Staff College, Ranchi	Nov. 05 – Dec. 02, 2014
6.	Dr. Poulomi Roy	Multidisciplinary workshop on science and Technology	DST	VigyanPrasar	BIT-Mesra	24-26 March, 2015
7.	Dr. Chandralata Bal	Orientation Programme	UGC	ASC, Ranchi	Academic Staff College, Ranchi	Jan 5 -Feb 1, 2015
8.	Dr. Chandralata Bal	28th International Conference on Antiviral Research	ISAR	ISAR	Rome, Italy	May 11-15, 2015
9.	Dr. Chandralata Bal	Multidisciplinary workshop on science and Technology	DST	VigyanPrasar	BIT-Mesra	24-26 March, 2015
10.	Dr. Sumit Mishra	Multidisciplinary workshop on science and Technology	DST	VigyanPrasar	BIT-Mesra	24-26 March, 2015
11.	Dr. Ashoke Sharon	28th International Conference on Antiviral Research	ISAR	ISAR	Rome, Italy	May 11-15, 2015
12.	Dr. S.S. Mahapatra	Orientation Programme	UGC	ASC, Ranchi	Academic Staff College, Ranchi	Nov. 05 - Dec. 02, 2014

SI. No	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
13.	Dr. Deep Shikha	Orientation Programme	UGC	UGC Academic Staff College, Ranchi	Ranchi	05,01.15 to 01.02.15
14.	Dr. Gautam Sen	Orientation Programme	UGC	ASC, Ranchi	Academic Staff College, Ranchi	Nov. 05 - Dec. 02, 2014
15.	Dr. Gautam Sen	Workshop	IIT Bombay	National mission on education through ICT (MHRD)	BIT Mesra	02.11.15 to 12.11.15
16.	Dr. Rahul	Orientation Programme	UGC	ASC, Ranchi	Academic Staff College, Ranchi	Nov. 05 - Dec. 02, 2014
17.	Dr. Rahul	Workshop	IIT Bombay	National mission on education through ICT (MHRD)	BIT Mesra	02.11.15 to 12.11.15
18.	Dr. G. K. Agarwal	Exclusive Workshop on HSSE in MSME sector (invited talk)	Dept. of Chemicals and Petrochemicals, Govt. of India	Indian Chamber of Commerce	Taj Bengal, Kolkata	12.01.2015
19.	Dr. G. K. Agarwal	Short-term Course on Advances in Environmental Health	QIP-AICTE	IIT Guwahati	IIT Guwahati	09.02.2015 to 13.02.2015
20.	Dr. G. K. Agarwal	83rd Orientation Programme	UGC	HRDC, Ranchi University	Human Resource Development Centre	15.05.2015 to 11.06.2015
21.	Dr. Pradip KAR	ICMPC 2015	GRIET	GRIET, Hyderabad, India	GRIET, Hyderabad, India	14.03.2015 to 15.03.2015

Publications:

International Journals

- 1. Bal, N. C.; Jena, N.; Chakravarty, H.; Kumar, A.; Chi, M.; Balaraju, T.; Rawale, S. V.; Rawale, J. S.; Sharon, A.; Periasamy, M. The C-terminal calcium-sensitive disordered motifs regulate isoform-specific polymerization characteristics of calsequestrin. Biopolymers 2015, 103, 15-22.
- 2. Parween, A., Mandal, T. K., Guillot, R., Naskar, S., Acid-base behavior, electrochemical properties and DFT study of redox non-innocent phenol-imidazole ligands and their Cu complexes, Polyhedron 2015, 99, 34–46
- 3. Naskar, S., Pakhira, B., Mishra, D., Mitra. P., Chattopadhyay, S., Naskar, S., Synthesis, characterization and theoretical studies of the heterolepticRuthenium(II) complexes of 2,6-bis(benzimidazolyl)pyridine, Polyhedron 2015, 100, 170–179

- 4. Roy, P., Srivastava, S. K., Nanostructured Anode Materials for Lithium Ion Batteries, Journal of Materials Chemistry A, 2015, 3, 2454-2484.
- 5. Roy, P., Srivastava, S.K., Nanostructured Copper Sulfides: Synthesis, Properties and Applications, CrystEngComm., 2015, Just accepted (DOI: 10.1039/C5CE01304F)
- 6. Panigrahi, R., Roy, P., Srivastava, S.K., Controlled Growth of PbSeNanorods to Flower-like Structure and Their Size-dependent Optical Properties, Advanced Science, Engineering and Medicine, 2015, 7, 190-194.
- 7. R Jha, UshaJha, R K Dey, S Mishra, S K Swain; Fluoride sorption by Zr(IV) loaded carboxylated orange peel; Desalination and Water Treatment; 2015, 53, 2144-2157.
- 8. Singh, S.; Yadav, P.; Sahu, S. N.; Sharon, A.; Kumar, B.; Ram, V. J.; Pratap, R.; One pot chemoselective synthesis of arylatedbenzo[h]quinolines. Synlett 2014, 25, 2599-2604
- 9. Bag, P.; Ojha, D.; Mukherjee, H.; Halder, U. C.; Mondal, S.; Biswas, A.; Sharon, A.; Kaer, L. V.; Chakrabarty, S.; Das, G.; Mitra, D.; Chattopadhyay, D. A dihydro-pyrido-indole potently inhibits HSV-1 infection by interfering the viral immediate early transcriptional events, Antiviral Research, 2014, 105, 126-134.
- 10. Karampuri, S.; Bag, P.; Chakravarty, H.; Bal, C.; Chattopadhyay, D.; Sharon, A. Anti-HSV activity and mode of action study of α-pyronecarboxamides. RSC Adv., 2014, 4, 17354-63.
- 11. Konreddy, A. K.; Toyama, M.; Ito, W.; Bal, C.; Baba, M.; Sharon, A. Synthesis and Anti-HCV Activity of 4-Hydroxyamino α-PyranoneCarboxamide Analogs. ACS Med. Chem. Lett., 2014, 5, 259-263.
- 12. Mahapatra, S.S., Shekhar, S., Thakur, B.K., Priyadarshi, H., Synthesis and Characterization of Electrodeposited C-PANI-Pd-Ni Composite Electrocatalyst for Methanol Oxidation. International Journal of Electrochemistry, 2014, 2014, 1-9.
- 13. Bharti, S., Mishra, S., Narendra, L. V. Comparative Studies on the High Performance Flocculating Agent of Novel Polyacrylamide grafted Oatmeal, Advances in Polymer Technology, 2015, (In Press, DOI: 10.1002/adv.21540).
- 14. Bharti, S, Mishra, S, Narendra, L.V., Balaraju, T., Balraju, K., Ceric ion-induced synthesis of polymethyl methacrylate-grafted oatmeal: its characterizations and applications, Desalination and Water Treatment, 2015, (In press, DOI: 10.1080/19443994.2015.1056836),
- 15. Rani, G.U., Dey, K.P., Bharti, S., Mishra, S., Controlled drug release of 5-amino salicylic acid by poly(2-hydroxyethylmethacrylate) grafted agar, Frontiers of Chemical Science and Engineering, 2014, (In press, DOI: 10.1007/s11705-014-1452-8),
- 16. Sen, G., Mishra, S., Prasad Dey, K., Bharti, S., "Synthesis, characterization and application of novel polyacrylamide-grafted barley", Journal of Applied Polymer Science, 2014, In press, (DOI: 10.1002/app.41046)
- 17. Mahto, D.,Rani, P., Mishra, S.,Sen, G. Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive, Industrial Crops and Products, 2014, 58, 251-258
- 18. Usha Rani, G., Konreddy, A. K., Mishra, S., Sen, G. Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled release of 5-ASA, International Journal of Biological Macromolecules, 2014, 65, 375-382.

- 19. Mishra, S., Sinha, S., Dey, K. P., Sen, G. Synthesis characterizations and applications of polymethylmethacrylate grafted psyllium as flocculant, Carbohydrate Polymers, 2014, 99, 462-468.
- 20. Shahid, M.,Shikha, D,Sinha, S. K.,Jha, U.,Murugesan, S., Mohandas, E., Kothari, D. C. Morphological study of HAP coated alumina by sol-gel method for orthopedic implants, Advanced Materials Research, 2015, 1086, 50-60.
- 21. Shikha, D., Jha, U., Sinha, S. K., Nair, K. G. M., Tyagi, A. K. Nitrogen Ion Beam modification of alumina for hard tissue implants, Macromol. Symp. 2015, 347, 39–48.
- 22. Shikha, D., Sinha, S. K., Shahid, Md., Jha, U., Reddy, V.R., Ojha, S., Kumar, P., Kanjilal, D. Corrosion, wettability and thrombogenicity investigation of ion beam modified HAP/Al2O3, Materials Chemistry and Physics, 2015.
- 23. Rahul, R., Kumar, S., Jha, U., Sen, G. Cationic inulin: A plant based natural biopolymer for algal biomass harvesting, International Journal of Biological Macromolecules, 2015, 72, 868.
- 24. Rahul, R., Jha, U., Sen, G., Mishra, S. Carboxymethyl Inulin: A novel flocculant for wastewater treatment, International Journal of Biological Macromolecules, 2014, 63, 1.
- 25. Rahul, R., Jha, U., Sen, G., Mishra, S.A novel polymeric flocculant based on polyacrylamide grafted Inulin: Aqueous Microwave assisted synthesis, Carbohydrate Polymers, 2014, 99, 11.
- 26. Banerjee, C., Ghosh, S., Sen, G., Mishra, S., Shukla, P., Bandopadhyay, R. Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer, Bioresource Technology, 2014, 151, 6.
- 27. Islam, R. U., Choudhary, M., Mallick, K. Taher, A., Nandi, D. Microwave assisted azide-alkyne cycloaddition reaction using polymer supported Cu(I) as a catalytic species: A solvent less approach, RSC Advances, 2015, 5, 47275-47283.
- 28. Islam, R. U., Taher, A., Choudhary, M., Siwal, S., Mallick, K. Polymer immobilized Cu(I) formation and azide-alkyne cycloaddition: A one pot reaction; Scientific Reports, 2015, 5, 9632
- 29. Islam, R. U., Taher, A., Choudhary, M., Witcomb, M. J., Mallick, K. Polymer supported Cu(I) catalyst for 'click reaction' in aqueous media; Dalton Transactions, 2015, 44, 1341–1349.
- 30. Govender, D., Islam, R. U., Charles B. De Koning, Willem A. L. van Otterlo, Patrick Arbuthnot, Mario Ariatti, Moganavelli Singh; Stealth lipoplex decorated with triazole-tethered galactosyl moieties: a strong hepatotropic gene vector; Biotechnology Letters, 2015, 37, 567-575
- 31. Islam, R. U., Witcomb, M., Mallick, K., Choudhary, M., Siwal, S. Polymer stabilized silver nanoparticle: An efficient catalyst for proton-coupled electron transfer reaction and the electrochemical recognition of biomolecule, Chemical Physics Letters, 2014, 608, 145–151
- 32. Choudhary, M., Islam, R. U., Witcomb, M., Mallick, K., Choudhary, In-situ generation of a high-performance Pd-polypyrrole composite with multifunctional catalytic properties, Dalton Transaction, 2014, 43, 6396-6405.
- 33. Mahato, S. K., Islam, R. U., Acharya, C., Witcomb, M. J., Mallick, K. Single step bottom-up approach for the synthesis of polymer stabilized palladium nanoparticles for chemoselective transfer hydrogenation of α, β -unsaturated carbonyls, Chemcatchem, 2014, 6, 1419-1426
- 34. Verma, S.K., Kar,P., Yang, D.J., Choudhury, A. Poly(m-aminophenol)/functionalized multi-walled carbon nanotube based alcohol sensor, Sensors Actuators B: Chemical 2015, 219, 199-208.
- 35. Verma, S.K., Choudhury, A., Kar, P. Interaction of multi-walled carbon nanotube with poly(m-aminophenol) in their processable conducting nanocomposite, Physica Status Solidi A, 2015, 212, 2044-2052.

- 36. Behera, A.K., Adhikari, B., Kar,P. Synthesis of processable conducting poly(m-aminophenol) having structure like keto derivative of polyaniline derivative, Polymer Science Series B, 2015, 57, 159-166.
- 37. Kumar, A., Pandey, J. P., Kumar, S. Removal of As(III) from aqueous solution using sawdust of Ficusbenghalensis: kinetic and modeling studies, International Journal of Applied Environmental Sciences, 2015, 10, 1245-1261.

International Proceedings

- 1. Samanta, S., Roy, P.,Kar, P. Influence of pH of the reaction medium on the structure and property of conducting poly(o-phenylenediamine), Materials Today: Proceedings, 2015, 2, 1301 1308.
- 2. Kumar, S., Pandey, J. P., Sinha, A.K. Evaluation of modified traditional method of water purification in context if Iron and Fluoride removal, Journal of Colloid and Interface Science, Proceeding of International Congress of Environmental Research (ICER-2014) at Banglore from 26-28 Dec, 2014.
- 3. Kumar, A., Pandey, J. P., Kumar, S.Removal of Arsenic(III) from aqueous solution using low cost biosorbent derived from green peas (Pisumsativum) teasta, Proceeding of International Congress of Environmental Research (ICER-2014) at Banglore from 26-28 Dec, 2014.
- Kumar, A., Pandey, J. P., Kumar, S.Study of Occurrence and Toxic Effect of Arsenic in Ground Water of Ranchi and Effort of Remediation, Proceeding of Current trends in Analytical Chemistry (CTAC-2015) at BARC, Mumbai from 25-29 May, 2015
- 5. Pal, P., Pandey, J.P., Sen, G. Study of Alum-Polyacrylamide Grafted Starch (St-g-PAM) based Composite Treatment of Water/Waste Water, Proceeding of 6th International Conference on "Recent Trends in Applied Physical, Chemical Sciences, Mathematical/ Statistical and Environmental Dynamics" (PCME-2015).

Books / Edited Books

- Mishra, S., Dey, K. P., Bharti, S. "Eco-friendly Grafted Polysaccharides for Pharmaceutical Formulation: Structure and Chemistry" (Chapter 15: Book: Handbook of Polymers for Pharmaceutical Technologies, Volume 1: Structure and Chemistry; Edited by Vijay Kumar Thakur, ManjuKumari Thakur), Pages 457-475. ISBN 978-1-119-04134-4, Wiley Scrivener Publishing, USA.
- 2. Mishra, S., Sen, G., Usha Rani, G., Dey, K. P. "Synthesis and Applications of grafted Carboxymethyl cellulose: A Review" (Chapter 21: Book: Cellulose-Based Graft Copolymers Structure and Chemistry; Edited by Vijay Kumar Thakur), Pages 475–496. CRC Press 2015, Print ISBN: 978-1-4822-4246-1, eBook ISBN: 978-1-4822-4248-5. DOI: 10.1201/b18390-22, Taylor & Francis.
- 3. Sinha, S., Sen, G., Mishra, S. "Microwave assisted synthesis of polyacrylamide grafted casein (CAS-g-PAM) as an effective flocculant for wastewater treatment" (Chapter 10) -Advanced Polymeric Materials, Editors: Sabu Thomas, NandakumarKalarikkal, Maciej Jaroszewski and Josmine p. ISBN: 978-177-188-0961. Publisher: Apple Academic Press (2015).
- 4. Rahul, R., Sen,G. "Synthetic derivatization of inulin and its applications" Green polymer composites technology: properties and applications, Editor:Inamuddin.ISBN: 9781498715461Publisher: CRC Press, Taylor & Francis.
- 5. Kar, P,Choudhury, A.,Verma,S.K. 'Chapter 12: Conjugated Polymer Nanocomposites Based Chemical Sensors' in 'Fundamentals of Conjugated Polymer Blends, Copolymers and Composites' edited bySaini, P.(Published form Wiley-Scrivener on March 2015), Print ISBN-13: 978-1-11854-949-0, Print ISBN-10: 1-11854-949-X.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. Chandralata Bal	International Travel Grant	SERB, DST	May, 2015
2	Dr. Ashoke Sharon	International Travel support	ISAR	May, 2015
3	Dr. Ashoke Sharon	Country Ambassador	ISAR	2015

Patents (Applied / Granted)

SI. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year
01	Masanori Baba, Ashoke Sharon,	Novel pyranonecarboxamide	WO2015008779 A1	Publication Date:
	ChandralataBal, and Ananda K	derivative and use thereof as		Jan 22 2015
	Konreddy	Anti-Hepatitis C Virus		

MoU / Collaborations

SI. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1	Kagoshima University, Japan	Collaborative Research	June 2015

Board of Studies(UG/PG)

I.	Dr. J.P. Pandey, Associate Professor & Head	Chairman
II.	Dr. UshaJha, Professor	Member
III.	Dr. Ashoke Sharon, Associate Professor	Member
IV.	Dr. Sumit Mishra, Assistant Professor	Member
V.	Dr. Deepshikha, Assistant Professor	Member
VI.	Dr. Rafique-ul-Islam, Assistant Professor	Member
VII.	Dr. S. Naskar, Assistant Professor	Member
VIII.	Dr. S.S. Mahapatra, Assistant Professor	Member
IX.	Dr. G. Sen	Member
X.	Dr. P.C. Joshi, Professor, Space Engineering & Rocketry	Member
XI.	Dr. M. Mukherjee, Professor, Depat. Of Chemical Technology	Member
XI.	Dr. M.K. Banerjee, Professor, Dept. of Chemistry, NIT, Jamshedpur	Member (Ext.)
XII.	Dr. Sagar Pal, Associate Professor, Dept. of Chemistry, ISM, Dhanbad	Member (Ext.)
XIII.	Dr. D. Tiwari, Professor, Dept. of Chemistry, I.I.T., BHU	Member (Ext.)
XIV.	Dr. LalBahadur, Professor, Dept. of Chemistry, BHU	Member (Ext.)
XV.	Dr. R.K. Dey, Professor, Centre of Chemistry, CUJ	Member (Ext.)

Departmental Academic Committee

I.	Dr. J.P. Pandey, Associate Professor & Head	Chairman
II.	Dr. Usha Jha, Professor	Member
III.	Dr. Ashoke Sharon, Associate Professor	Member
IV.	Dr. Sumit Mishra, Assistant Professor	Member
V.	Dr. Deepshikha, Assistant Professor	Member
VI.	Dr. Rafique-Ul-Islam, Assistant Professor	Member
VII.	Dr. S. Naskar, Assistant Professor	Member
VIII.	Dr. S.S. Mahapatra, Assistant Professor	Member
IX.	Dr. D. Sasmal, Professor, Dept. of Pharmaceutical Sciences	Member
X.	Dr. P.C. Joshi, Professor, Space Engineering & Rocketry	Member
XI.	Guide(s) of the candidate	

Department of Civil & Environmental Engineering



The Department of Civil engineering was established in the year 1957. It is one of the oldest Departments and has the infrastructure and facilities to match with the very best in the country. It has all the ingredients for imparting necessary knowledge in providing better quality of life. The range includes topics of general nature and service to mankind. Buildings, Roads and Highways, Railways, Tunnels and Bridges, Dams and Canals, Docks and Harbours, Airports, Water Supply and Drainage works, Tower Structures and Skyscrapers, all fall within its remain. The Civil Engineering discipline offers wide scope to students in terms of promising career opportunities and professional advancement.UG, PG and PhD programmes are being offered. The major equipments in the Department include Large Box Shear Digital Apparatus, Digital Triaxial Testing Apparatus, Digital Point Load Test Apparatus etc.

The Environmental Science & Engineering Group (ESEG), established in the year 2002 has emerged as a potential centre in the field of environment through its dedicated involvement and quality contribution towards education, research and professional services. The alumni of the Department are well placed in research positions and jobs in various government and private organisations.

In May 2014, Department of Civil Engineering and Environmental Science and Engineering Group were merged and are presently known as Department of Civil & Environmental Engineering. Currently the Department offers full time M.E. in Soil Mechanics and Foundation engineering, M.E. in Structural Engineering and M.Tech. in Environmental Science & Engineering and PhD programmes in various disciplines of Civil and Environmental Science & Engineering.

ANNUAL REPORT

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Development of Guidelines to Predict Distance Between Toe of the Shovel-Dumper-Dump and that of Dragline Dump with Consideration of Safety and Economical Design of Both Shovel-Dumper Dump and Dragline Dump.	Dr. Indrajit Roy	Coal India R&D Board.	September, 2013	26.58 lakhs	September, 2013 to August, 2016.
2.	Interference of two closely spaced strip footings carrying eccentric loads in sand	Dr. Siddhartha Sengupta	CSIR	26/02/13	6.1 lakhs	15/05/13 to 14/05/16
3	Behaviour of piled raft foundations in layered soils under eccentric vertical loading	Dr. Siddhartha Sengupta	DST	31/08/12	8.1 lakhs	01/09/12 to 31/08/15
4	Corrosion of steels in carbonated high volume fly ash concrete.	Dr. Jitu Kujur	SERB-DST	21.07.2014	50 lakhs	08/2014- 07/2017
5	Arsenic enrichment in agricultural soils with potential impacts on crops and food security of Sahibganj, Jharkhand, India.	Dr. Sukalyan Chakraborty	DST-SERB Young Scientist Research Grant	December 2013	19 lakhs	3 years
6	Environmental Consequences and Reclamation Options for coal mining Activities in Charhi & Kuju of Jharkhand, India.	Dr. Sukalyan Chakraborty	UGC Start-up Grant	April 2014	6 lakhs	2 years

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of project
1	Geo-technical investigations of Kolar, Pimpri, Gouri deep, Mungoli, Durgapur & Makardhokra opencast project	Dr. Indrajit Roy	Western Coalfields Limited	July, 2014 – July, 2015	15 lakhs	July, 2015
2	Short term consultancy on Rural Water supply operational and management study for selected 36 villages.	Dr. Kirti Avishek	ENV DAS India	Jan 2014- July 2014.	5 Lakhs	July, 2014
3	Drought Vulnerability assessment for Bihar and Maharasthra.	Dr. Kirti Avishek (Co- PI)	IWMI, Sri Lanka	June 2014	9000 USD	August, 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Gopal Pathak	FDP on Achieving academic excellence	TEQIP II	IIM Raipur	IIM Raipur	Aug 4-9, 2014
2	Dr. Anand Kr. Sinha	Workshop on 'Discussion on PMGSY with PTA and STA'	National Rural Roads Development Agency, New Delhi	National Rural Roads Development Agency, New Delhi	World Bank Office, New Delhi	August 2, 2014
3	Dr. Anand Kr. Sinha	Training Programme on 'Management Capacity Enhancement Programme'	TEQIP - II	Indian Institute of Management, Raipur	Indian Institute of Management, Raipur	September, 8-13, 2014
4	Dr. Bindhu Lal	KYaat(Know Yourself as a Teacher)	TEQIP-II	BIT Mesra	BIT Mesra	Nov. 24-28, 2014
5	Dr. Bindhu Lal	Introduction to CFD and its applications	Directorate of Technical Education, Kerala	Dept. of Mechanical	College of Engineering, Trivandrum	Dec.8-12, 2014
6	Dr. Bindhu Lal	Analysis of Composite Materials	TEQIP-II	Dept. of Chemicql Engg.& Tech.	BIT Mesra	Jan.19-23, 2015
7.	Dr. Siddhartha Sengupta	Know Yourself as a Teacher	BIT Mesra	BIT Mesra	BIT Mesra	24/11/14 to 28/11/14
8	Dr. Sukalyan Chakraborty	Two weeks Faculty Development Programme on "Contemporary HR trends and Practises"	AICTE sponsored	Birla Institute of Technology	BIT, Mesra	April 06 th to 19 th 2015.
9	Kirti Avishek	Contemporary HR Trends and Practices,	BIT Mesra	Dept. of Management. BIT Mesra	BIT Mesra	April 6, 2015- April, 19 2015
10	Dr. Sukalyan Chakraborty	Tropical Science Congress. 2014. (Oral)	DST, DBT, JNU	Jawahar Lal Nehru University	JNU	Dec 12 to 14th 2014
11.	Dr. Jitu Kujur	"Quality Control and Quality Assurance in Concrete Construction Including Extreme Weather Concreting"	TEQIP	NCCBM, Ballabgarh	NCCBM, Ballabgarh	15.09.2014 to 19.09.2014.
12	Dr. Neeta Kumari	Geostatistical and geospatial approaches for the characterization of natural resources in the environment: challenges, processes and strategies	TEQIP	JNU, New Delhi	Dept. of Environmental Sciences, JNU, New Delhi	October 17-20, 2014
13	Dr. Neeta Kumari	Modelling and Decision making techniques in engineering and management	TEQIP	Dept. Of Textile Technology, IIT, Delhi	Dept. Of Textile Technology, IIT, Delhi	March 19-21, 2015

Publications

International Journal

- 1. Anamika Shrivastava, Pathak Gopal (2014). Removal of arsenite using dried hyacinth roots: adsorption mechanism, IJWREM, vol 5, 1-2, Jan-Dec 2014.pp 141-146
- 2. Anamika Shrivastava, Pathak Gopal (2014). A short review on mitigation of metals from groundwater using dried hyacinth roots. Water quality Exposure Health. DOI 10.1007/s12403-0153-3.
- 3. J.Iqbal, Gorai A.K., Katpatal, Y.B., Pathak, G. (2014). Development of GIS based fuzzy pattern recognition model (Mod Drastic) fore ground water vulnerability to pollution assessment. Int Jour of Environ. Sci. Technol.
- 4. Sikha Kumari Pandey, Tanushree Bhattacharya, Sukalyan Chakraborty. Metal phytoremediation potential of naturally growing plants on flyash dumpsite of Patratu thermal power station, Jharkhand, India. Intl. J. Phytorem. 2015, /dx.doi.org/10.1080/15226514,2015,1064353.
- 5. Sukalyan Chakraborty, Md. Osaid Alam, Tanushree Bhattacharya, Yogendra Nath Singh. Arsenic accumulation in food crops: A potential threat in Bengal Delta Plain. Water Qual. Exp. Health. 2014 Vol. 6(4): 233-246.
- 6. Sukalyan Chakraborty, Tanushree Bhattacharya, Gurmeet Singh, Jyoti Prakash Maity. Studies on benthic macroalgae as biological indicator of heavy metal pollution in marine environment: A Biomonitoring, approach for pollution assessment. Ecotox. Environ. Safety. 2014, 100, 61–68.
- 7. Paul, K., Dutta, A., Krishna, A.P., A Comprehensive Study on Solid Waste Vehicle Routing and Tracking a Case Study on Kolkata City. KSCE Journal of Civil Engineering (I.F. = 0.511), 2015, DOI 10.1007/s12205-015-0214-6.
- 8. Kumari, N., Pathak, G., Singh, T.B., The overall assessment of quality and quantity of drinking water with focus on fluoride in the areas of extreme western parts of Jharkhand. International Journal of Environmental Sciences, ISSN 0976-4402, Vol 5(4), pp 814-829.
- 9. Singh, B. K. and Sinha, A. K. (2014) "Drag Force in Open Channel", International Journal of Civil Engineering, Vol. 3, Issue 2, 83-102, published by International Academy of Science, Engineering and Technology, Chennai, Tamil Nadu
- 10. Singh, B. K. and Sinha, A. K. (2014) "Friction Factor in Open Channel", International Journal of Civil Engineering, Vol. 3, Issue 3, 19-38, published by International Academy of Science, Engineering and Technology, Chennai, Tamil Nadu
- 11. Singh, B. K. and Sinha, A. K. (2014) "Surface Friction in Open Channel", International Journal of Civil Engineering, Vol. 3, Issue 3, 39-54, published by International Academy of Science, Engineering and Technology, Chennai, Tamil Nadu
- 12. Singh, B. K. and Sinha, A. K. (2014) "Large Scale Roughness", International Journal of Civil Engineering, Vol. 3, Issue 3, 123-138, published by International Academy of Science, Engineering and Technology, Chennai, Tamil Nadu
- 13. Hazra M., Avishek K., Pathak G., (2015). Phytoremedial potential of *Typha latifolia*, *Eichornia crassipes* and *Monochoria hastata*found in contaminated water bodies across Ranchi city (India). 17: 835–840, 2015, International Journal of Phytoremediation. Taylor and Francis, ISSN: 1522-6514 print / 1549-7879 online. IF: 1.74.

- 14. Abhinav, Jyotsna Roseline E., Zahra, P. Kirti Avishek (2015). Declining Ecosystem Services due to urbanization and Mismanagement. Int. Jour. of Applied Engineering Research, V10, N 35. 27422-27443.
- Bindhu Lal, MD Shafique Alam, Sushama Kiran, "Use of stone dust from construction site as stabilizing 15. agent in flexible pavement construction –A case study" Int. J. Struct. & Civil Engg., 3 (4), Nov. 2014, pp 25-29
- Vinit Sehgal and Bindhu Lal, "Wavelet based models for air pollution modeling around coal mining sites 16. in Jharkhand for 1, 3 and 5 day lead time". Int. J. Environment and Pollution, Inderscience publishers Vol. 56, Nos. 1/2/3/4, Dec.2014,pp 11-27
- Bindhu lal," An empirical model to evaluate SPM concentration in a colliery area" Civil Engineering and 17. Architecture, 3 (1), 12-21, April 2015
- 18. Sengupta S and Roy I (2015)" Sustainable development of Indian Coal Industry – Slope Stability Challenges". Published by Nirmala College, Ranchi in association with University Grant Commission , Eastern Region office: ISBN: 978-93-80036-75-5.
- Sharma S, Sengupta S and Roy I (2015) "Identification of Failure surfaces in Dragline Dumps of 19. opencast Mines". Journal of Earth Science, ISSN:2305-493X.
- Sharma S and Roy I(2015) "Slope Failure of Waste Rock Dump at Jayant Opencast Mine, India-20. A case Study" International Journal of Applied Engineering Research: Research India Publication. ISSN:0973-4562; Online ISSN: 1087-1090.

International Proceedings

- 1. Gautam, R. and Sinha, A.K. (2014) 'Study of ARIMA Model in Context of Evapotranspiration Estimation' at International Conference on Recent Trends and Challenges in Civil Engineering on December 10-12, 2014 at Motilal Nehru National Institute of Technology, Allahabad
- 2. Kumar, S., Pandey, J. P., and Sinha, A. K. (2014) "Evaluation of Modified Traditional Method of Water Purification in the Context of Iron and Fluoride Removal", at 7th International Congress of Environmental Research on December 26-28, 2014 at Bangalore organised by Journal of Environmental Research and Development and R. V. College of Engineering, Bangalore
- 3. Gautam, R. and Sinha, A.K. (2014) 'Study of Flood Controlling and Disaster Mitigation in Context of Climate Change' at International Conference on Decision Support System for Early Warning and Mitigation of Disaster on December 28-30, 2014 at National Institute of Technology, Durgapur
- 4. Gautam, R. and Sinha, A.K. (2015) 'Occurrence of Flood and Various Methods of its Controlling' at International Seminar on Utilisation of Non-Conventional Energy Sources for Sustainable Development of Rural Areas on March 21-22, 2015 at Ptrithivi College of Engineering and Management, Bhilai
- 5. Sen.A., Lal.B, Tripathy.S.S, Determination of air quality using fuzzy logic-based model, Proceedings of IEEE 2015 International conference on Electrical, Electronics, Signals, Communication and optimization (EESCO), Vignan's Institute of Information Technology, Duvvada, Vishakapatnam, Andhra Pradesh, 24-25 Jan.2015, pp 1-4
- Kumar, M and Kujur, J., Accelerated carbonation test on concrete made with micro-sillica, in Proceeding 6. of International Conference on Recent Trends and Challenges in Civil Engineering (RTCCE-2014), MNNIT Allahabad, India during December 12-14, 2014, pp 9-10.

7. Kumar, A and Kujur, J., Study on the flow characteristic of self-compacting concrete by partial replacement of coarse aggregate by brick bats" Proceeding of International Conference on Sustainable Energy and Built Environment (ICES-2015), held at VIT University, Vellore, India during 12-13 March, 2015, pp-178-181 (ISBN No. 978-81-923320-6-2).

Book:

Single Authored

 Bindhu Lal, Study of air pollution using intelligent models, Lords Publishing House, Ranchi, ISBN 978-93-85292-00-2

Edited Books

- 1. Roy D., Avishek K., (2014). Conflict and Development. Mitram Pub. Kolkata. ISBN: 978-93-80036-75-5
- 2. Kirti Avishek, Thakur A., (2014). Forest Ecosystem Services and Valuation: Study on Sal forests in Ranchi, India. LAP Pub. Germany

Chapter(s) in Edited Book

 Kuldeep Suman and Avishek, K. (2015). Urbanization and Resource Depletion in Ranchi. Development and Conflict. Pp-216-224. Mitram Publications. Kolkata. ISBN: 978-93-80036-75-5

Award / Recognition Bestowed on Faculties (State / National / International)

SI.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year /
No.	Traine of the rueuity	Title of the fiwara, frontain	Organiourion	Duration
1	Dr. Sukalyan Chakraborty	Australian Awards Ambassador	Australian High	One year
			Commission, New Delhi	
2	Dr. Gopal Pathak	Member Editorial Board & Advisory	Int. Journal of Sciences and	Nov 2014
		board	Applied Research	

Board of Studies(UG/PG)

1.	Head of the Department	_	Chairman
2.	Prof. Gopal Pathak	_	Member
3.	Prof. Balram singh	_	Member
4.	Prof. Anand Kumar Sinha	_	Member
5.	Prof. Sudeshna Chakravorty	_	Member
6.	Dr. Arun Kumar	_	Member
7.	Dr. Indrajit	_	Member
8.	Dr. Bindhu Lal	_	Member
9.	Dr. Kirti Avishek	_	Member
10.	Dr. R. Naresh Kumar	_	Member
11.	Dr. Sukalyan Chakravorty	_	Member
12.	Dr. C. Jagganathan ,Professor,Department of Remote Sensing	_	Member
13.	Dr. B.K. Mishra ,Professor,Department of Mathematics	_	Member

14.	Dr. Gurdeep Singh ,Vice Chancellor, Vinobha Bhabe University	_	Member
15.	Dr. A.K. Gupta ,Professor,Civil engineering, IIT, Kharagpur	_	Member
16.	Er. K.K. Chaterjee, G.M., Civil, CMPDI, Ranchi	_	Member
17.	Dr. S.C. Jain, MECON, India Ltd.Ranchi	_	Member
18.	Dr. Mukhesh Khare ,CESE, IIT, Delhi	_	Member
19.	Dr. Pramila Goel, IIT, Delhi	_	Member

Departmental Academic Committee

1.	Head of the Department	_	Chairman
2.	Prof. Gopal Pathak	_	Member
3.	Prof. Balram Singh	_	Member
4.	Prof. Anand Kumar Sinha	_	Member
5.	Prof. Sudeshna Chakravorty	_	Member
6.	Dr. Indrajit Roy	_	Member
7.	Dr. Bindhu Lal	_	Member
8.	Dr. Jitu Kujur	_	Member
9.	Dr. Kirti Avishek	_	Member
10.	Dr. R. Naresh Kumar	_	Member
11.	Dr. C. Jagganathan, Remote Sensing	_	Member
12.	Dr. S.K. Jain, Mathematics	_	Member
13.	Guide of the candidate	_	Member

Other Important Information

- 1. Prof. Gopal Pathak delivered the Guest of Honor talk during the two-day workshop on "Accreditation in Technical Institution" on 19.3.2015 organised by Dept. of Higher Education, Govt. of Tripura. Agartala.
- 2. Prof. Gopal Pathak delivered a key note speech in the symposium on Management and Procurement of Integrated Waste Management System, organised by IIT Guwahati during feb 6-7, 2015.
- 3. Dr. Kirti Avishek was invited to deliver a talk on Ecology and Biodiversity at CMPDI, Ranchi- May 2015 for its management trainees.
- 4. Dr. Kirti Avishek was invited to deliver a talk on Ecosystem Management at IICM Ranchi- May 2015 for its two months Management training Workshop.
- 5. Dr. Kirti Avishek was invited to deliver a talk on Sustainable Development and Energy options on 12.4.15 in the Department of Environment
- 6. Dr. Kirti Avishek was invited to deliver a talk on and Water Management, JN College, Ranchi University Environmental Impact Assessment in Industrial Locations on 11.4.15 in in the Department of Environment and Water Management, JN college, Ranchi University.
- 7. Dr. Indrajit Roy was invited to deliver a talk on "Slope Stability Problems of Surface Coals/Lignite Mines of India and Their Solution." on 10-12th August,2015. in the Department of Geosciences and Geological and Petroleum Engineering, Missouri University of Science and Technology, USA.

Department of Computer Science & Engineering





The Department of CSE was established in the year 1983 and is now recognized as one of the leading Departments with infrastructure and facilities to match the very best in the country. The Department remains committed towards its mission which is twofold. One is to provide students with the fundamental knowledge and problem solving skills in Computer Science required for a fulfilling career. The other goal is to create and disseminate knowledge to improve Computer Science research, education and practice.

The Department currently offers following programmes:

Programmes Offered	Intake
B.E in Computer Science (4 years : 8-semesters)	120
B.E in Information Technology (4 years: 8-semesters	60
M.E.in Software Engineering (2 years: 4-semesters)	15
M.Tech in Computer Science (2 years: 4-semesters)	16
M.Tech in Information Technology (2 years: 4-semesters)	16
M.Tech in Information Security (2 years: 4-semesters)	16
MCA (3 years: 6-semesters)	60
Ph.D. Programmes	

Facilities: The Department is equipped with HPCA and Cloud Computing facilities along with seven laboratories with over 500 computers available for conducting laboratory sessions in diverse topics like (i) programming languages: C, C++, Java, Oracle.(ii) Matlab for Soft Computing and Image Processing (iii) Rational Rose for Software Engineering and (iv) Laboratories for Networking, Multimedia, Simulation, Parallel Computing etc . All the Laboratories are internally networked allowing students to remotely access any particular resource at any point in time.

Areas of Research: Bioinformatics, DNA Computing, Parallel Computing, Image Processing, Robotics, Intelligent Systems, Rough Sets, DNA Nanorobotics, Software Engineering, Sensor Networks, Data Mining, Pattern Recognition, Natural Language Processing etc.

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Amritanjali	International Conference On Stem Cell Research, Cancer Biology, Biomedical Sciences, Bioinformatics and Applied Biotechnology	TEQIP, BIT Mesra	KrishiSanskriti	JNU, New Delhi	(1.11.14 – 2.11.14)
2.	Amritanjali	International Conference on Biotechnology and Bioinformatics	TEQIP, BIT Mesra	ISCCB	Pune	(6.02.15 – 8.02.15)
3.	Dr. B.K. Sarkar	Refresher Course on Information Technology	UGC	Academic Staff College, Ranchi	Academic Staff College, Ranchi	21 days (3-week) (03.01.15 -23.01.15)
4.	Dr. B.K. Sarkar	Scientific Computation and Documentation using Open Source Softwares (SCDOSS)	TEQIP	NIT Durgapur	NIT Durgapur	one week (1.12.14- 5.12.14)
5	Shashank Pushkar	National Conference on Emerging Trends in Computing Technologies, NCETCT 2014, Organized by School of Engineering & Technology, Vikram University, Ujjain, M.P., pp.36-41, August, 26-27,	Vikram University, Ujjain	Vikram University, Ujjain	Vikram University, Ujjain	August 26- 27, 2014
6.	Shamama Anwar	Special Winter School (Refresher Course)		UGC Academic Staff College, RU.	UGC Academic Staff College, RU	28 th Nov to 18 th Dec '14
7.	Shamama Anwar	3 rd International Conference on Advances in Computing, Communications & Informatics	TEQIP	Proc. In IEEE Xplore, Galgotia College of Engineering, Greater Noida.	Galgotia College of Engg, Greater Noida.	24-27 Sept, 2014.
8.	Subrajeet Mohapatra	"Nature Inspired Algorithms and its Application in Software Engineering (NIASE 2014)	TEQIP-II	MNNIT, Allahabad	Dept of Computer Science, MNNIT, Allahabad	07-10- 2014 to 11-10- 2014
9.	Sujan Kumar Saha,et al.	Two Week ISTE STTP on "Introduction to Design of Algorithms"	NMEICT (MHRD)	IIT Kharagpur Through MHRD	BIT Mesra (Remote Centre)	27 April 2015 - 30 May 2015 (2 weeks)
10.	Dr. Bhaskar Karn	One week "Faculty Development Programme"	TEQIP - II	IIM Raipur	IIM Raipur	Nov.10- 15, 2014
11.	Dr. Bhaskar Karn	10th International CALIBER 2015 on "Innovative Librarianship: Adapting to Digital Realities	TEQIP - II	INFLIBNET Centre, Gandhinagar, Gujrat	Indian Institute of Advance Studies, Shimla	March 12 – 14 , 2015

Publications

International Journals

- 1. Singh, K. And Amritanjali, "Enumerating All Parsimonious Sequences of Reversals and Translocations", Int. Journal of Basic and Applied Biology, pp. 7-12. 2014
- 2. Tripathi, B. And Amritanjali, "An Improved Algorithm for Reducing the Solution Space for Sorting by Reversals", Int. Journal of Basic and Applied Biology, pp. 23-27, 2014
- 3. Pooja.Jha, K.S.Patnaik, "Enhancing Software Productivity Using Metrics and Improving Software Performance Using Proposed Model: An Empirical Study of Effect of Variance", International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 8, pp. 19949-19966, 2015. (SCOPUS)
- 4. Bodhi Chakarborty, K.S. Patnaik, "Software Development Effort Estimation using Fuzzy Bayesian Belief Network with COCOMO II", Int. J. of Software Engineering, IJSE Vol. 8 No. 1 January 2015.
- 5. Sarkar B.K. and Amit Kumar: A case study on Machine Learning and Classification, accepted in International Journal of Information and Decision Sciences (IJIDS),2015
- Saxena, V.K. and Pushkar, S., State-of-art in Storage Model using Encryption Technique for privacy preserving in Cloud Computing. International Journal of Computer Science and Information Technologies (IJCSIT). 64-69.2014
- 7. Saxena, V.K. and Pushkar, S., Fuzzy Clustering and Optimization Model for Software Cost Estimation. International Journal of Engineering and Technology., Dec 2014 6,2531-2545.
- 8. Sahu, A., Anwar, S., Kumar, V., Shukla, A., Human Activity Recognition Using CSI Angle & Euclidean Distance Feature, International Journal of Applied Engineering Research, Vol. 10 No. 55, 2968-2972.
- 9. Mukta Majumdar, Sujan Kumar Saha. 2014. Automatic Selection of Informative Sentences: The Sentences That Can Generate Multiple Choice Questions. Knowledge Management & E-Learning: An International Journal. Vol. 6, No. 4, pages 377-391. ISSN: 2073-7904.
- 10. I. Snigdh and N. Gupta, "Quality of Service Metrics in Wireless Sensor Networks: A Survey", Journal of The Institution of Engineers (India): Series B, Springer, 2014, pp.1-6,2014
- 11. I. Snigdh, N. Gupta, "Evaluating Quasi Random Deployment in Zigbee Based Wireless Sensor Networks", TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 15, No. 1, pp. 142 150,2015
- 12. I. Snigdh, A. Kumar, "Ensuring Reliability of Backbone Architectures in Wireless Sensor Networks", International Journal of Electronics Communication and Computer Engineering, Vol. 5, Iss.3, pp.629-633,2014.
- I. Snigdh and S. Saurabh, "A Multi Tree based Approach for Performance Analysis in Hierarchical Wireless Sensor Networks", International Journal of Digital Information and Wireless Communications (IJDIWC) 4.4, pp. 438-446,2014
- 14. I. Snigdh, N. Gupta, "Performance Analysis of Quasi-Random Deployment Strategy in Sensor Networks", International Journal of Engineering and Technology, Vol. 7, no. 1, pp 386-393,2015
- 15. Chandan Kumar, Sandip Dutta and Soubhik Chakraborty (2015). "Hiding Messages using Musical Notes: A Fuzzy Logic Approach." International Journal of Security and its Applications, Vol. 9 No.1 (2015) pp.237-248.
- 16. Sahana, S, K., Jain, A and Mahanti, P.K. 2014, "Ant Colony Optimization for Train Scheduling: An Analysis",

- I.J. Intelligent Systems and Applications 2014, Vol-6, Number-2, pp29-36, ISSN-2074-904X (print), 2074-9058 (online), doi:10.5815/ijisa.2014.02.04, www.mecs-press.org/ijisa/ijisa-v6-n2/v6n2-4.html.
- 17. Sahana, S, K., and Mahanti, P.K. 2015, "An Analysis of Email Encryption using Neural Cryptography", Journal of Multidisciplinary Engineering Science and Technology", Volume-2(1), pp. 83-87, ISSN: 3159-0040.
- 18. Srivastava, S., Sahana, S, K., Pant, D., and Mahanti, P.K., 2015, "Hybrid Microscopic Discrete Evolutionary Model for Traffic Signal Optimization", Journal of Next Generation Information Technology (JNIT), Volume 6(2), pp1-6, 29th May, 2015, ISSN: 2092-8637 (Print) 2233-9388 (Online).
- 19. Malhotra, A., Pandey, V., Sahana, S.K., and Dutta, S., 2015, "Ant Colony Optimization for Scheduling of PCS's using Single Machine", ELK Asia Pacific Journals-Special Issue", pp 341-346, ISBN: 978-81-930411-4-7.
- HanifaArfi, Ahmad Y. A., and Sahana, S.K., 2015, "Cloud Resource Management System Using SNMP", International Journal of Applied Engineering Research (IJAER), Volume 10, Number 55 (2015) pp.2453-2458, Print ISSN 0973-4562, Online ISSN 1087—1090.
- Rashmi Rai, G Sahoo, ShabanaMehfuz, Advancements and Approaches towards moving from Legacy Application to Cloud, International Journal of Communication Networks and Distributed Systems, Inderscience, 2015

International Proceedings

- 1. Anwar, S., and Raj, S., A Neural Netwrok Approach to Edge Detection using Adaptive Neuro Fuzzy Inference System. In Proceedings of the 3rd International Conference on Advances in Computing, Communications & Informatics, IEEE Xplore, 2432-2435, September, 2014.
- 2. Mukta Majumdar, Sujan Kumar Saha. 2015. A System for Generating Multiple Choice Questions: With a Novel Approach for Sentence Selection. Proceedings of The 2nd ACL Workshop on Natural Language Processing Techniques for Educational Applications (NLP-TEA), pages 64–72, Beijing, China, July 31, 2015. Association for Computational Linguistics and Asian Federation of Natural Language Processing.
- 3. Amit Prakash, Sujan Kumar Saha. 2014. A Relevance Feedback Based Approach for Mixed Script Transliterated Text Search. FIRE 2014 workshop on Transliteration Search.
- 4. I. Snigdh, N. Gupta, "Performance evaluation of Quasi Regular deployment strategy in graph based wireless sensor networks", IEEE International Conference on Signal Processing and Communication Engineering Systems, Spaces-2015.
- 5. I.Snigdh, D. Gosain, "Energy analysis for trajectory based sink mobility in WSN", International Conference on Communication Networks (ICCN 2015)
- Kumar Chandan, Sandip Dutta, Soubhik Chakraborty, "Musical Cryptography using Genetic Algorithm", IEEE International Conference on Circuits, Power and Computing Technologies ICCPCT-2014 Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay, Kanyakumari district, Tamilnadu-629180, INDIA.
- Sahana,S.K and Jain,A. 2014, "High Performance Ant Colony Optimizer (HPACO) for Travelling Salesman Problem (TSP)", 5th International Conference on ICSI 2014, Hefei, China, October 17-20, 2014, In: Advances in Swarm Intelligence, Vol 8794, Springer International Publishing, Lecture Notes in Computer Science (LNCS),pp 165-172, Print ISBN-978-3-319-11856-7,Online ISBN-978-3-319-11857-4,DOI: 10.1007/978-3-319-11857-4

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- 8. Sahana,S.K and Kumar,K. 2014, "Hybrid Synchronous Discrete Distance Time Model for Traffic Signal Optimization", International Conference on Computational Intelligence & Data Mining 2014,Burla,Orrisa, India, December 20-21, 2014, In: Series Smart Innovation, Systems and Technologies,Vol-31, Book Computational Intelligence in Data Mining, Springer India, pp 23-33, Print ISBN- 978-81-322-2204-0,Online ISBN- 978-81-322-2205-7,DOI: 10.1007/978-81-322-2205-7 3.
- 9. Kumar, Yugal and Sahoo, G. "An Improved Cat Swarm Optimization Algorithm for Clustering", In international Conference on Computational Intelligence in Data Mining (ICCIDM-2014) on 20th- 21st Dec. 2014 at Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur, Odisha and proceedings published in the Springer's Series on Smart Innovation, Systems and Technologies, Germany, 2014
- 10. Santosh kumar and G. Sahoo, Classification of Heart Disease using Naïve Bayes and Genetic Algorithm, ICCIDM-2014, Springer, Burla, Odissha.

National Proceedings

- Saxena, V.K. and Pushkar, S., Privacy Preserving using multidimensional k-anonymity. In proceedings of the National Conference on Innovation in Management and Computer Science, NCIMCS 2015, Advanced College of Science & Commerce, Ujjain, January, 31, 2015.
- 2. Saxena, V.K. and Pushkar, S., Privacy Preserving Data Classification in Cloud Computing. In proceedings of the National Conference on Emerging Trends in Computing Technologies, NCETCT 2014, School of Engineering & Technology, Vikram University, Ujjain, M.P., pp.36-41, August, 26-27, 2014.
- 3. Saxena, V.K. and Pushkar, S., A new privacy preserving approach towards cloud computing. In Proceedings of the National Conference on Communication, Cloud and Big Data, CCB-2014, Department of Information Technology, Sikkim Manipal Institute of Technology, Majitar, East Sikkim, India, published by ACCB Publishing, England, pp. 125-129, December, 2014
- 4. Saxena, V.K. and Pushkar, S., Privacy Preserving using multidimensional k-anonymity. In the proceedings of the National Conference on Innovation in Management and Computer Science, NCIMCS 2015, Advanced College of Science & Commerce, Ujjain, January, 31, 2015.
- 5. Sweta, K. and Pushkar, S., "Search Based Software Engineering, Current State and Future Direction". In the Proceedings of the National Conference on Emerging Trends in Computing Technologies, NCETCT 2014, School of Engineering & Technology, Vikram University, Ujjain, M.P., August, 26-27,

Book:

Chapter(s) in Edited Book

 Sweta, K. And Pushkar, S., A Genetic Algorithm approach for Multi-Criteria Project Selection for Analogy-based Software Cost Estimation. Computational Intelligence in Data Mining, Springer, 2015,pp.13-24.

Board of Studies(UG/PG)(Internal)

Head of the Department, CSE, Chairman (Ex-Officio)

Dr. G. Sahoo Dr. Abhijit Mustafi
Dr. D.K. Mallick Mr. S. K. Chatterjee
Dr. S. K. Saha Mr. K.K. Senapati
Dr. I. Mukherjee Dr. Nisha Gupta

Board of Studies(UG/PG)(External)

Dr. Rajib Mall Dept. of Computer Science, IIT Kharagpur

Dr. Aditya Bagchi Dean of Studies, ISI, Kolkata

Dr. Atal Chaudhuri Dept. of Computer Science and Engineering, Jadavpur University, Kolkata Dr. Swapan Bhattacharya Dept. of Computer Science and Engineering, Jadavpur University, Kolkata Mr. Kushal Banerjee Academic Relationship Manager, India-East, Tata Consultancy Services

Departmental Academic Committee

1. Dr. Sandip Dutta Chairman 2. Dr. G. Sahoo Member 3. Dr. D.K. Mallick Member 4. Dr.(Mrs) Aruna Jain Member 5. Dr. Bhaskar Karn Member 6. Dr. V.K. Jha Member Dr. K.S. Patnaik 7. Member 8. Dr. A.A. Somsundara Member 9. Dr. Vibha Rani Gupta Member 10. Dr. R.C. Jha Member

Other Important Information

Dr. Bhaskar Karn delivered invited lecture on

- 1. "Information Technology: An Introduction and its Advancements" on 6.1.2015 at Refresher Course in "Information Technology" from 3.01.2015 to 23.01.2015 at UGC-Academic Staff College, Ranchi University, Ranchi
- 2. "Application of Fuzzy logic in Information Retrieval System" on 6.1.2015 at Refresher Course in "Information Technology" from 3.01.2015 to 23.01.2015 at UGC-Academic Staff College, Ranchi University, Ranchi
- 3. "Information Technology: An Introduction and its Advancements" on 15.1.2015 at 81st Orientation programme from 5.01.2015 to 3.02.2015 held at UGC-Academic Staff College, Ranchi University, Ranchi
- 4. "Application of Fuzzy logic in Information Retrieval System" on 15.1.2015 at 81st Orientation programme from 5.01.2015 to 3.02.2015 held at UGC-Academic Staff College, Ranchi University, Ranchi
- 5. "Metadata and its applications" on 17.1.2015 at Refresher Course in "Information Technology" from 3.01.2015 to 23.01.2015 held at UGC-Academic Staff College, Ranchi University, Ranchi
- 6. Cross-Cutting Issues of Institutional & Academic Capacity Development on 1st November, 2014 at the University Campus, Vinoba Bhave University, Hazaribagh.

Department of Electronics & Communication Engineering



The Department of Electronics and Communication Engineering was established in the year 1960. This is one of the largest Departments of the institute, having the highest number of students and the faculty members. Due to its modern infrastructure and exposure given to the students, it is one of the elite Departments in India. The ECE Department runs Bachelor in Engineering (BE) and several Master in Engineering (ME) Programmes in addition to Ph.D. Programme within the field of Electronics and Communications Engineering.

Bachelor in Engineering

It offers B.E. in Electronics & Communication Engineering, a 4-year (8-semester) programme with intake of 120 students. The students are exposed to all fundamental and advanced technology in the field of Electronics and Communication Engineering. Some of the courses offered are Modern Instruments and Measurements, Microprocessor and Microcontroller, Digital Communication system, Microwave Engineering, Digital Signal Processing, Intelligent Instrumentation, Computer Networking, Fiber Optics Communication System, Antennas and Propagation for Wireless Communication, Mobile and Cellular Communication etc. The syllabi are frequently updated to incorporate recent developments. The Department has several well-equipped and advanced laboratories to help students in gaining practical exposure. Almost 100% students are absorbed by various leading industries and organizations by campus placement.

Master in Engineering

The Department is currently running three postgraduate programmes with specializations in (a) Instrumentation with intake of 12, (b) Microwave Engineering with intake of 12 and (c) Wireless Communication with intake of 18 students. A team of expert teachers are involved in teaching and providing research guidance. Students are exposed to several specialized software tools such as Cadence System Design Tools, Silvako Software (Athena & Atlas), IE3D, HFSS, Microwave Office, Sonnet, Fidelity, ADS, CST, Beampro, SystemView, LABView, MATLAB, NS-2 and QualNet etc. The Department is recipient of assistance in the form of Departmental Research Support under the Special Assistance Programme of UGC. The Department is running several R & D projects from various agencies like UGC, DST, AICTE, ISRO etc.

Ph.D. Programme

The Department runs PhD programme within the field of Electronics and Communications Engineering. Currently the research areas undertaken for the PhD programme are: Fibre Optic Sensors & Communication, Optoelectronic Devices, Wireless Communicationl Printed RF & Microwave Circuits, Antennas for various Applications, Electromagnetics, EMI/EMC, Computational Electromagnetics, VLSI & Embedded System Design, RF MEMS, Biomedical Signal Processing, Speech & Audio Signal Processing, Image Processing, Multimedia & Automation

Sponsored Projects

Project Sanctioned

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	Design of Low Power CMOS Temperature Sensor for Aerospace Applications	Dr. Vijay Nath	SAC, ISRO, Ahmedabad	30 Apr, 15	Rs. 25.0 lakhs	Two years
2	Speech-based Access of Agricultural Commodity Prices an Weather Information in 12 Indian Languages/ Dialects (Automatic Speech Recognition (ASR) Consortium- Phase-II)	Mahesh Chandra	DEITY	21 Jul,14	31.82 lakhs	Two years

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	Design of VLSI Design Course (Pedagogy), Main Phase	Dr. Vijay Nath Co-PI: Dr. R.K. Lal	M.H. R. D. New Delhi	June-2013	6.4 lakhs	2013 to 2016
2	Studies on Microwave Dielectric Ceramics and their device applications	Co-PI: Prof. V.R. Gupta & Prof. N. Gupta	DST (SERB)	20 May, 13	31.7 lakhs	Two Years

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1	Establishment of National	Dr. Neela	ADA (Ministry	Oct. 2010	11	Oct,2014
	MEMS Design Centre	Chattoraj of Defence)			lakhs	
2	Special Assistance Program-II	Prof. Nisha	UGC	2009	52.5	Five years
	(SAP-II) for UG Projects	Gupta			lakhs	
3	Design of Ultra Low Power	Dr. Vijay Nath	DST New Delhi	May-2011	26.7 lakhs	2011-2013
	CMOS Cell for Temperature					extended up to
						2015
4	Pedagogy Project (NMPICT)	Dr .Vijay Nath	MHRD	2010	10	Five Years
	Development of VLSI Design				lakhs	
	Course, Pilot Phase					

Seminar / Conferences / Short – term Courses Conducted by the Department

SI. No.	Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Dates
1	Transformational Training programme on	Dr. Sanjay Kumar	BIT Mesra	24-28 Nov, 14
	Mission Kyaa T			
2	International workshop on recent advances	Dr. Mahesh Chandra	ICACCI	24-27 Sep, 14
	in a adaptive systems and signal processing in			
	ICACCI 2014, Greater Noida			
3	International Conference on	Dr. Aminul Islam	TEQIP	12-13 Sep,14
	Devices, Circuits & Communications (ICDCCom			
	2014)			

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. S.S. Sahu	Advanced Engineering Optimization through Intelligent Techniques	BIT Mesra	SVNIT, Surat	SVNIT, Surat	22-26 June, 15
2	Mahesh Chandra	Short term course on Integrated Automation Technologies	TEQIP	IIT Delhi	IIT Delhi	01-06 June, 15
3	Mrs. Annapurna SM	Short Term course on FPGA based system design	TEQIP	IIT PATNA	PATNA	25-30 May 15
4	Ms. Swati Prasad	Short Term course on FPGA based system design	TEQIP	IIT PATNA	PATNA	25-30 May 15

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
5	S. Sidhiswari,	"Innovative Librarianship: Adapting to Digital Realities"	INFLIBNET	INFLIBNET Centre Gandhinagar	Shimla	12-14 Mar, 15
6	Dr. Sanjeet Kumar	Two week ISTE STTP on "Introduction to design of Algorithms"	NMEICT (MHRD)	IIT Kharagpur	Remote centre, BIT Mesra	27 Apr- 30 May,15
7	Mahesh Chandra	ICRTC-2015	BIT Mesra	SRM University, Ghaziabad	SRM University, Ghaziabad	12-13 March2015
8	Dr. Dileep Kumar Upadhyay	Short term course on Design and Analysis of Efficient System for Microwave transmission and radiation	TEQIP-II	IIT Kharagpur	IIT Kharagpur	23-28 Feb, 15
9	Mr. Gajendra Kant Mishra	Short term course on Design and Analysis of Efficient System for Microwave transmission and radiation	TEQIP-II	IIT Kharagpur	IIT Kharagpur	23-28 Feb,15
10	Dr. Vijay Nath	Advanced VLSI Signal Processing	TEQIP-II	IIT Kharagpur	IIT Kharagpur	2- 6 Jan, 15
11	Dr. S. K. Ghorai	3 rd National Knowledge Network Workshop (NKN)	MHRD, Govt. of India,	IIT Guwahati	IIT Guwahati	15-17 Dec,14
12	Mr. Janardan Sahay	Two week ISTE main workshop on control systems	TEQIP, BIT Mesra	IIT Kgp	BIT Mesra	2-12 Dec,14
13	Mr. Vishal H. Shah	Workshop on Control System, organized by IIT Kharagpur	TEQIP, BIT Mesra	IIT Kgp	BIT Mesra	2-12 Dec,14
14	Dr. Anjini Kumar Tiwary	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14
15	Dr. Deelip Kr Upadhyay	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14
16	Dr. SS Sahoo	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14
17	Dr. Sanjeet Kumar	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14
18	Dr. A Islam	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14

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SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
19	Mr. Gajendra Kant	Transformational Training programme on Mission KYaaT	BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24-28 Nov, 14
20	Mr. Vishal H. Shah	Numerical and Optimization Technique	TEQIP, BIT Mesra	MNNIT, Allahabad	MNNIT, Allahabad	31 Oct, -4 Nov, 14
21	Dr.Anjini Kumar Tiwary	Research Methodology and Design of Experiments	MNNIT Jaipur	IQAC, BIT Mesra	MNNIT Jaipur	27-31 Oct,14
22	Dr. Anjini Kumar Tiwary	Nature Inspired Algorithms and its Application in Software Engineering (NIASE 2014)	MNIT Allahabad	IQAC, BIT Mesra	MNIT Allahabad	07-11 Oct,14
23	Mahesh Chandra	IEEE International Conference on Advances in Computing, Communication and Informatics,	GCE, Greater Noida	GCE, Greater Noida	New Delhi, India	24-27 Sept. 2014,
24	Ms. Swati Prasad	Women Empowerment in Science and Technology	NML, Jamshedpur	NML, Jamshedpur	Jamshedpur	24-25 Sep, 14
25	Mrs. S M Annapurna	Women Empowerment in Science and Technology	NML, Jamshedpur	NML, Jamshedpur	Jamshedpur	24-25 Sep, 14
26	Dr. Sanjay Kumar	Brain Storming Workshop on 5G Standardization: WISDOM,	GISFI	GISFI	New Delhi	01-2Sept, 14
27	Mr. Vishal H. Shah	Six Sigma Tools & Applications	TEQIP, BIT Mesra	Production Engg. BIT Mesra	BIT Mesra	25-30 Aug,14
28	Dr. Mahesh Chandra	International Conference on Computational Vision and Robotic(ICCVR-2014)	BIT Mesra	IIMT, Bhubaneswar	Bhubaneswar	09-10 August 2014
29	Dr. Sanjeet Kumar	Two week ISTE STTP on "Computer Networking"	NMEICT (MHRD)	IIT Bombay	Remote centre, BIT Mesra	28 May- 5July, 14
30	Mr. Janardan Sahay	Two Week ISTE workshop on Computer Networking	NMEICT (MHRD)	IIT Bombay	Remote centre, BIT Mesra	28 May-5 Jul, 14
31	Mr. Santashraya Prasad	TCAD	Self Financed	B.I.T,Mesra	B.I.T,Mesra	15 Feb, 14
32	Mr. Santashraya Prasad	ESAT -2014	Self Financed	B.I.T,Mesra	B.I.T,Mesra	11Sep,14

Publications:

International Journals

- 1. Mainak Basu, S. K. Ghorai, "Sequential Interrogation of Multiple FBG Sensors using LPG modulation and an Artificial Neural Network," Meas. Sci. Technol. vol. 26(4), 2015.
- 2. Itu Snigdh, Nisha Gupta, "Enhancing Reliability in Backbone Assisted Wireless Sensor Networks." International Journal of Performability Engineering 11, no. 5, 2015.
- 3. B. Appasani, N. Gupta, "A novel wide band-gap structure for improved signal integrity." International Journal of Microwave and Wireless Technologies: 1-6, 2015.
- 4. Appasani Bhargav, & Nisha Gupta, Genetic Algorithm using Novel Objective Function for Realizing Compact Uniform Linear Array with Non-Uniform Element Spacing, Microwave Review, No. 1, vol. 20, pp. 12-16, 2014.
- 5. Ritesh Kumar Badhai & Nisha Gupta, Inverted Sinc Shaped Monopole Antenna for Wireless Devices, Microwave Review, No. 1, vol. 20,pp. 17-25, 2014.
- Nidhi Pandit, Anjini Kumar Tiwary & Nisha Gupta, Improving Characteristics of Hairpin Band Pass Filter using SIR concept INROADS- An International Journal of Jaipur National University, vol. no. 3, pp.161-167, 2014.
- 7. Bibha Kumari and Nisha Gupta, Multifrequency Oscillator-Type Active Printed Antenna Using Chaotic Colpitts Oscillator, International Journal of Microwave Science and Technology, Vol. 11/2014, pp.1-10, 2014.
- 8. Itu Snigdh, Nisha Gupta, "Quality of Service Metrics in Wireless Sensor Networks: A Survey." Journal of The Institution of Engineers (India): Series B, pp. 1-6, 2014.
- 9. Arun Kumar Dwivedi, Sagrika Chandra, Manoj Kumar, Sanjay Kumar and N V P Kiran Kumar, Atmospheric surface layer responses to the extreme lightning day in plateau region in India Journal of atmospheric and solar-terrestrial physics, Aug. 2014.
- 10. Sudakar Singh Chauhan and Sanjay Kumar, "Capacity analysis of adaptive transmission with space-time block codes in spatially correlated MIMO Nakagami- fading channels," Springer International Journal Wireless Personal Commun., vol. 79, no.2, pp. 1211-1222, 2014.
- 11. Sudakar Singh Chauhan and Sanjay Kumar, "Bit error probability and capacity analysis of space-time block codes in spatially correlated MIMO Weibull fading channels," WSEAS Trans. on Commun., vol. 13, pp. 209-216, 2014.
- 12. Paresh M. Dholakia, Sanjay Kumar & C. H. Vithalani, Performance Analysis of 4X 4 and 8X8 MIMO System, to Achieve Higher Spectral Efficiency in Rayleigh and Rician Fading Distributions Wireless Personal Communications, June 2014.
- 13. Arun Kumar Dwivedi, Sagrika Chandra, Manoj Kumar, Sanjay Kumar and N V P Kiran Kumar, Spectral analysis of wind and temperature components during lightening in pre-monsoon season over Ranchi, 'Springer Verlag Wien 2014.
- Mohammad Irfanul Hasan, Sanjay Kumar, Channel Capacity of Dual-Branch Maximal Ratio Combining under Worst Case of Fading Scenario, WSEAS Transactions on Communications, Volume 13, pp. 162-170, 2014.

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- 73. Suraj Kumar Saw, Vijay Nath "An Ultra Low Power and Low Phase Noise Current Starved CMOS VCO for Wireless Application" IEEE International Conference on Industrial Instrumentation and Control organized by Department of Instruments and Control, College of Engineering Pune(COEP) India from 28-30th May 2015.
- 74. Suraj Kumar Saw, Vijay Nath "Performance Analysis of Low Power CSVCO for PLL Architecture" 2nd IEEE International Conference on Advances in Computing and Communication Engineering (ICACCE) organized by Dept. of ECE, Tula's Institute Dehradun India from 1-2nd May 2015.
- 75. Suraj Kumar Saw, Vijay Nath "Low Power Low Noise Current Starved VCO for PLL" IEEE International Conference on Computing, Communication & Automations (ICCCA) organized by School of Computing Science and Engineering, Galgotia University Greater Noida, India from 15-16th May 2015.
- 76. Adesh Kumar, Vijay Nath, Piyush Kuchhal, S. Choudhury "IC Packaging: 3D IC Technology & Methods" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE)& Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 77. Megha Agarwal, Vinita Mardi, Vijay Nath, "Design of Ultra low Power CLASS E Power Amplifier" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE)& Institution of Electronics & Tele-communication

- Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 78. Agnish Mal, Akshat Chitransh, Harsh Srivastava, Vijay Nath, "Analysis of a Self-Compensating, Low-Noise, Low-Power PLL Circuit @45nm Technology Node" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE)& Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 79. Arunima Mallick, Prathipati Naina, Anvitha Nalli, Suraj Kumar Saw, Vijay Nath, "Design of Ultra Low Power CMOS 4-bit Multiplier Circuit" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE)& Institution of Electronics & Tele-communication Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 80. Nancy Mishra, Kumari Vijeeta Bandana, Kumari Swati, Suraj Kumar Saw, Vijay Nath, "Design of 3-bit Low Power Flash Analog to Digital Converter (ADC) in VLSI" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 81. Indranil Chatterjee, Lakshya Jain, Avi Jain, G Karthik Suraj Kumar Saw, Vijay Nath, "A 0.75 V UWB LNA for 3.1–10.6-GHz Wireless Applications" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 82. Arun V.H.P.S.S, Venkata Ravi Teja reddy.Y, Srikar .M.S.P, Sai Charan A., Suraj Kumar Saw, Vijay Nath, "Design and Implementation of a Reaction timer using CMOS logic" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 83. Sharad kumar, Soumendra Kumar Dash, Sidhant Sahoo, Bandi Jagdeeshwar Reddy, Suraj Kumar Saw, Vijay Nath, "Design and Analysis of Current Starved Voltage Controlled Oscillator @ 45nm CMOS Technology" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Telecommunication Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 84. Namrata Yadav, Sarita Kumari, Subhra Chakraborty, Ashuthosh Pranav, Vijay Nath, "Design of Low Power Operational transconductance Amplifier" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 85. Varun Kumar, Krishan Kumar Singh, Abhishek Pandey, Madhu Ray, Vijay Nath, "Design of Comparator in Sigma Delta ADC using 45nm CMOS Technology" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.

- 86. Sarika Tyagi, Swapnil Saurav, Abhishek Pandey, Madhu Ray, Vijay Nath, "A 21nW CMOS Operational Amplifier for Biomedical Application" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers(IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 87. Mohd. Javed Khan, Arsalan Nabi Siddiqui, Suraj Kumar Saw, Ashutosh Pranav, Vijay Nath, "A 1.45 mW CMOS 4 bit Multiplier Circuit" 1st International Conference on Nanoelectronics Circuits & Communication Systems (NCCS-2015) organized by Indian Society for VLSI Education (ISVE) & Institution of Electronics & Tele-communication Engineers (IETE) Ranchi at ARTTC BSNL near Jumar River Hazaribag Road Ranchi, India from 9-10th May, 2015.
- 88. Suraj Kumar Saw, Vijay Nath, "Study and design of ultra low power CMOS ring oscillator" 3rd International conference on computing, communication and sensor network organized by PIET Rourkela Dec12-14, 2014.
- 89. Suraj Kumar Saw, S.D.K. Verma, B. Gupta, Vijay Nath, "An ultra low power fast locking CMOS phase locked loop for wireless communication" 3rd International conference on computing, communication and sensor network organized by PIET Rourkela, Dec12-14, 2014, Vol.5 issue-II, pp. 259-263.
- 90. Subhra Chakraborty, Abhishek Pandey, Vijay Nath, "A141 dB gain of low power CMOS Operational Amplifier" 3rd International conference on computing, communication and sensor network organized by PIET Rourkela, Dec12-14,2014.

National Proceedings

 Sanjeet Kumar, Saswat Chakrabarti and Jayanta Mukhopadhyay, "Priority Based Pixel Domain Wyner-Ziv Video Coding using Key frames," in Proceedings of the Twentieth National conference on Communications, NCC-2014, IIT Kanpur, 2014.

Book:

- 1. Sanjay Kumar, 'Wireless Communication: The Fundamental & Advanced Concepts', River Publishers, Denmark, 2015.
- 2. Silk Smita, Sandeep Singh Solanki "Separation and Classification of Different Musical Instruments Sound", Category: Electronics, electro-technology, communications technology.2015-06-29.
- 3. Asutosh Kar, Mahesh Chandra, "An Optimized Structure Filtered-x Least Mean Square Algorithm for Acoustic Noise Suppression in Wireless Networks", Recent Development in Wireless Sensor and Ad-hoc Networks, Signals and Communication Technology 2015, pp 191-206, Springer India. Print ISBN 978-81-322-2128-9
- 4. H. K. Palo, Mihir Narayan Mohanty and Mahesh Chandra, "Design of Neural Network Model for Emotional Speech Recognition", Artificial Intelligence and Evolutionary Algorithms in Engineering, Systems Advances in Intelligent Systems and Computing, Volume 325, 2015, pp 291-300, Springer India. Print ISBN 978-81-322-2134-0
- 5. Asutosh Kar, Mahesh Chandra, "Pseudo-Fractional Tap-Length Learning Based Applied Soft Computing for Structure Adaptation of LMS in High Noise Environment", pp.115-129, Soft Computing Techniques in Engineering Applications, Studies in Computational Intelligence 543, Springer International Publishing Switzerland 2014. ISBN:978-3-319-04692-1

Award / Recognition Bestowed on Faculties (State /National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. Mahesh	Best paper award	International Conference on Advanced	05-07
	Chandra		Computing and Communication Systems	Jan, 15
2	Dr. Vijay Nath	ESDM-2015 Program Coordinator & Resource Person East Zone of India	DeitY New Delhi under aegis of IETE New Delhi	2014-15
3	Dr. Vijay Nath	Cadence Design Contest-2014	Cadence Company, Ireland	1-2 Jul, 14

MoU / Collaborations

SI. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1	AICTE and BSNL	EETP (Employability Enhancement Training Programme)	Started in Apr, 2013
		for V to VII sem ECE, EEE, CSE and IT students	

Departmental Students' Activities

SI. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
1	Presented paper in International Conference on Advances in Applied Engineering and Technology (ICAAET'15) held at Syed Ammal Engineering College, Ramanathapuram, Tamilnadu.	Shahnawaz Arif	14-16 May, 15
2	Presented paper in (ICIIECS-15), IEEE Sponsored 2nd International Conference on Innovations in Information, Embedded and Communication systems (ICIIECS-2015) held at Karpagam College of Engineering, Myleripalayam, Othakkalmandapam Coimbatore	Shahnawaz Arif	19-20 Mar, 15
3	Presented papers in International Conference on Knowledge Collaboration in Engineering, Coimbatore.	Deepshikha Bedia and Mamta Kumari	27-28 Mar, 15
4	Presented a paper in International conference on Knowledge Collaboration in Engineering (ICKCE), Coimbatore, India, March 27-28, 2015.	Neha Swarup	27-28 Mar, 15.
5	Attended an International Conference at Coimbotore ICKCE-2015.	Silk Smita	March 27-28,2015
6	Attended International Conference at Ghaziabad RACCET-2015.	Nirupam Kumari	March 1, 2015
7	Presented a paper Third International Conference on Recent Trends in Computing (ICRTC'2015), Ghaziabad, India.	Astik Biswas	2015
8	Presented a paper International Conference on Advanced Computing and Communication Systems (ICACCS -2015), Jan. 05 – 07, 2015, Coimbatore, India.	Asutosh Kar	2015
9	Presented a paper International Conference on Advanced Computing and Communication Systems (ICACCS -2015), Jan. 05 – 07, 2015, Coimbatore, India.	Arpit Aggarwal	2015
10	Presented a paper IEEE Sponsored 2nd International conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'15), Karpagam College of Engineering, Coimbatore, March 19-20, 2015 (PG Student)	Pratush Pushkar	2015

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SI. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
11	Presented papers in different conferences.	15 ME (Ints.) students	2014-15
12	Presented paper in ICECCE 2014, IEEE International Conference on Electronics, Communication and Computational Engineering	Deepak K Jena	17-18 Nov, 14
13	Presented two papers in International Conference on Advanced Communication, control & Computing Technologies (ICACCCT), Tamilnadu, India, May 2014.	Sarah Asheer	2014
14	19 students are member of IE (I) student's chapter.	Manish Kumar Pandey	2014-15
14	60 students ECE, EEE, CSE participated in Digital Electronics Workshop at BIT Mesra, Ranchi, organized by ECE SOC.	Sushant Agrawal	25-27 Jul, 14
15	60 students ECE, EEE, CSE participated in Microprocessor Workshop at BIT Mesra, Ranchi, organized by ECE SOC.	Sushant Agrawal	Mar,15
16	75 students ECE participated in Placement Experience Workshop BIT Mesra, Ranchi, organized by ECE SOC.	Sushant Agrawal	10 Apr,015

Board of Studies(UG/PG)

Panel for BOS

1.	HOD, ECE (Ex-officio)	Chairman
2.	Prof. R. Sukesh Kumar	Member
3.	Prof. Nisha Gupta	Member
4.	Prof. S. K. Ghorai	Member
5.	Dr. S. S. Solanki	Member
6.	Mr. S. S. Tripathy	Member
7.	Prof. R. C. Jha (EEE)	Member

Panel for expert from outside

- Prof. G. Panda, IIT Bhubaneshwar
- 2. Dr. V. Kumar, ISM, Dhanbad
- 3. Prof. S. Sanyal, IIT Kharagpur
- 4. Dr. S. Chakravarty, IIT Kharagpur
- 5. Dr. S. K. Patra, NIT Rourkela
- Dr. Tapas Chakravarty, TCS, Kolkata

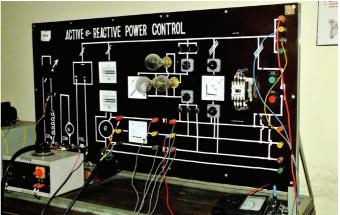
Departmental Academic Committee

HOD (Ex-officio Chairman)

Prof. R. Sukesh Kumar Prof. N. Gupta Prof. S. K. Ghorai Dr. S. S. Solanki Dr. Neela Chattoraj Dr. Sanjeet Kumar Dr. Manoj Kumar Mukul Dr. Aminul Islam Dr. Rakesh Kumar Sinha (BMI) Dr. R. C. Jha (EEE)

Department of Electrical & Electronics Engineering





The Department of Electrical & Electronics Engineering (EEE) offers B.E. in Electrical & Electronics Engineering and M.E. in Electrical Engineering with three different specializations, viz., Power System, Control System and Power Electronics. 31 research scholars are currently enrolled in Ph.D. programme. Department of EEE has been supported by DST (FIST), UGC (SAP), MODROB and TEQIP. Department has procured 23 computers, 30 sets of microcontroller kit (Arduino board, sensors, servo-motors etc.), AC, DC motors with loading arrangements. The Department has also renovated the seminar room and soft computing lab in this financial year. Faculty members are working on different concepts related to Smart Grid, Hybrid Electric Vehicles, Multi-level inverters, Robotics, V2V energy exchange while in motion, fault tolerant multi phase drives, electric vehicle propulsion, Power System Voltage Stability, System Identifications, Soft Computing Techniques, applications etc. A magneto-optic laboratory has been developed in the area of sensor design in the Department.

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (in Lacs)	Duration of the Project
1	FIST Grant for doing research on Smart Grid and Drive Hybrid Electric Vehicle	Dr. T. Ghose	DST (FIST), GOI	2012	58.00	3 Years
2	Application of Power Electronics in Power System and Electrical Drive	Dr. T. Ghose Dr. P. R. Thakura	UGC (SAP)	2012	61.00	5 Years
3	Hardware Development and Implementation of Microcontroller Based Boost Converter for Hybrid Electric Vehicles	Dr. P. R. Thakura	UGC	2012	12.65	3 Years
4	Developing Suitable Pedagogical Methods for various classes, intellectual calibres and e-learning for course "Industrial Drives and Control"	, ,	NMEICT	2009	Approx. 2.8	In final phase
5	Development of Vehicle License Plate Recognition System	Dr. V. Laxmi	UGC (Research Award)	2013	3.00	2 Years

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (in Lacs)	Date of completion of the Project
1	Design, development and characterization of magneto optic material based current sensor for industrial application	l -	DST (IDP under TDT), New Delhi, GOI	24/11/2009	25.98	01/09/2014

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short-term Courses
1	National Workshop on Power Electronics	Dr. P. R. Thakura	NaMPET	July 7-8, 2014
2	Workshop on Control Systems	Dr. V. Laxmi	NMEICT	Dec. 2-12, 2014
3	One week workshop on Advanced Microcontroller Applications	Dr. P. R. Thakura	TEQIP	Feb. 2-8, 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. R. C. Jha	Capacity enhancement program	TEQIP	IIM, Raipur	IIM, Raipur	8-13 Sept.,2014
2	Dr. P. R. Thakura Mr. P. Prakash	Workshop on "Quality Initiatives in Technical & Higher Education Institutions (in compliance with NBA & NAAC Accreditation)	TEQIP	Engineering staff college of India (ESCI)	Hyderabad	28-30 January, 2015
3	Dr. V. Laxmi	Coordinators workshop on Control System	TEQIP	NMEICT	IIT Kharagpur	15-19 Sept. 2014
4	Mr. P. Prakash Dr. P. K. Upadhyay Dr. R. K. Keshri Mr.G. S. Gupta	Workshop on Advanced Microcontroller Applications	TEQIP	BIT, Mesra	BIT, Mesra, Ranchi	2-8 Feb, 2015
5	Dr. S. K. Mishra	National Workshop on Power Electronics	NaMPET	BIT, Mesra	BIT, Mesra Ranchi	7-8 July, 2014
6	Dr. P. K. Upadhyay Dr. R. K. Keshri Mr. G. S. Gupta	Workshop on "Mission Kyaat"	TEQIP	BIT, Mesra	BIT, Mesra	24-28 Nov, 2014
7	Dr. P. K. Upadhyay Dr. R. K. Keshri Dr. D. Ghosh Mrs.S. S. Kamlu	Workshop on Control Systems	NMEICT	IIT, KGP	BIT, Mesra	2-12 Dec, 2014

Publications:

International Journals

- 1. Ghosh, D., Ghose, T., Mohanta, D. K., A graph theory approach for reliability analysis of phasor measurement units using frequency and duration technique. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, Dec. 2014, 228(6), 567-577.
- 2. Gupta, S., Ghose, T., Impact of frequency-based tariff in power market. International Journal of Power and Energy Conversion, Inderscience Publishers, 2014, 5(4), 402 416.
- 3. Acharya, Deep Shekhar, Nath, Nutan Lata, Applications of Multi Agent Systems in Control Engineering: A State-of-the-Art Survey. International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2163, 2015, 2(4), 113-118.
- 4. Chakraborty, Sarbani, Kumari, Sarita, Design and development of a magneto-optic sensor for magnetic field measurements. Sensors and Transducers, January 2015, 184(1), 153-158
- 5. Kumar, Sanjay, Bhattacharyya, B. and Gupta, Vikash Kumar, Present and Future Energy Scenario in India. Journal of The Institution of Engineers (India): Series B, Springer, 2014, 95(3), 247-254.
- 6. Gupta, Vikash Kumar, Bhattacharyya, B. and Kumar, Sanjay, Enhancement of Power System Loadability with FACTS Devices. Journal of The Institution of Engineers (India): Series B, 2014, 95(2), 113-120.
- 7. Bhattacharyya, B., Gupta, Vikash Kumar and Kumar, Sanjay, UPFC with Series and Shunt FACTS Controllers for the Economic Operation of a Power System. Ain Shams Engineering Journal, Elsevier, 2014, 5(3), 775-787.
- 8. Bhattacharyya, B. and Gupta, Vikash Kumar, Fuzzy Genetic Algorithm for the optimal placement of Flexible AC Transmission Systems devices in a power system. Electric Power Components and Systems, 2014, 42(8), 779-787.
- 9. Bhattacharyya, B. and Gupta, Vikash Kumar, Fuzzy based Evolutionary Algorithm for Reactive Power Optimization with FACTS Devices. International Journal of Electrical Power and Energy Systems, Elsevier, 2014, 61, 39-47.
- 10. Neogi, N., Mohanta, D. K. and Dutta, P.K., Review of vision based steel surface inspection systems. EURASIP Journal of Image and Video Processing (Springer publication), 2014, 2014:50, doi: 10.1186/1687-5281-2014-50.

International Proceedings

- 1. Yadav, Mohini, Prakash, P., Jha, R. C., Reliability and Energy benefit analysis of distribution system incorporating wind turbine generator. In 1st International Conference on Nano-electronics, circuits and Communication Systems (NCCS-2015), Ranchi, India, 9-10 May, 2015.
- 2. Nath, Nutan Lata, Dutta, Pallavi, Kumari, Shilpi, Lal, Urjaswit, Performance Analysis of 3-Phase Induction Motor: Through Simulation in SIMULINK and TMS kit. In International Conference on Nano-electronics, Circuits & Communication Systems (NCCS-2015), 9-10 May, 2015.
- 3. Chakraborty, S., Sinha, Krishna K., Kumar, Prashant, Evanescent Absorption based Refractive index measurement at 1.3 μm. In International conference on Industrial Instrumentation and Control (ICIC), Pune, India, pp.825-850, IEEE, 28-29 May, 2015.

- 4. Soumajeet Roy, Arnab Malakar and Sarbani Chakraborty, "Linear and non-linear controller design for magnetic levitation system", Proceedings of International Conference on CCEEDS and EEECOS, Andhra Pradesh, 28-30 March, 2015, pp 574-579, Publisher IJNTSE 2015.
- 5. Baliyan, Arjun, Mishra, Sudhansu Kumar, Efficient Prediction of Short Term Load Demand using Chebyshev Functional Link Artificial Neural Network. In IEEE International conference, ICIIECS, Coimbatore, Mar-19-20, 2015.
- 6. Mahato, Bidyut, Thakura, P.R. and Jana, K.C., Hardware Design and Implementation of Unity Power Factor Rectifiers using Microcontrollers. In IEEE, India Int. Conf. on Power Electronics, NIT Kurushetra, 8-10 Dec., 2014.
- Kumar, Anand and Thakura, P.R., Hardware Development and Implementation of Single Phase Matrix Converter as Cycloconverter and Inverter. In IEEE, India Int. Conf. on Power ElectronicsIICPE-2014, NIT Kurushetra, 8-10 Dec., 2014.
- 8. Alam, Aftab, Agrawal, Sharad and Thakura, P.R., Regenerative Braking for Induction Motor Drive. In 6th IEEE Power India International IEEE, PIICON, December, DTU Delhi, 2014.
- 9. Dey, M., Biswas, M., Ghosh, Santu, Chakaraborty, S., Real Time Pulse Processors for Physics Experiments-Simulation and Implementation. In Proceedings in International Conference in signal processing and Computer Technology (ICSPCT) -2014, Ajmer, pp. 726-731, India, Publisher IEEE, 12-13 July, 2014.
- Mahish, Priyatosh, Chakrabarty, S., Frequency Tuning Properties of Magneto-Optic Sensor. In Proceedings of International Conference on Devices, Circuits & Communications, (ICDCCom-2014), Ranchi, pp.1-3, PublisherIEEE, 12-13 September, 2014.
- 11. Labani Chongdar, Chakraborty, Sarbani, Design of controller for liquid lens system. In E-Proceedings of XXXIX Conference of Optical Society of India, International Conference on Optics and Photonics, Golden Jubilee Conference of The Optical Society of India, Dept. of Applied Optics and Photonics, University of Calcutta, India, 20-22 Feb., 2015.
- 12. Pallav, Pandey, Sumit Kr., Laxmi, V., PID control of magnetic levitation system based on derivative filter. In Annual International Conference on Emerging Research Areas: Magnetics, Machines and Drives (AICERA/iCMMD), 2014, Kottayam, India, 24-26 July 2014 (published in IEEE Xplore)
- 13. Pandey, Sumit Kr., Laxmi, V., Optimal control of Twin Rotor MIMO system using LQR Technique. In International Conference on Computational Intelligence in Data Mining(ICCIDM-2014), Burla, India, Volume 31, 2015, pp 11-21, 20-21 Dec. 2014 (Springer)
- 14. Pandey, Sumit Kr., Laxmi, V.,Singh, Raghuvansh, Stability Analysis of Twin Rotor MIMO System based on optimal control Technique. In 2nd International Conference on Knowledge Collaboration in Engineering ICKCE2015, 27-28 March, 2015.
- Kumar, Chandan, Kamlu, Sushma and Mishra, Sudhansu kumar, d- SPACE Based Space Vector PWM for a Two- Level VSI. In International Joint conference on Advance Engineering and Technology, 9-10, 2015, ISBN-978-93-81693-88-22, DOI No: 10.1214/ITSI-TEEE/58
- 16. Jha, R.K., Garlapati, S., Keshri, R.K., and Buja, G., Remedial control strategies for a three-phase PM BLDC drive under VSI faults. In Proceedings of PEDES 2014, Mumbai, India, Dec 16-19, 2014.
- 17. Keshri, R., Garlapati, S., and Tessarollo, A., and Buja, G., Torque Capabilities of a Five-Phase PM BLDC

- Drive vs. a Three-Phase One and Various Supply Modes In. Proceedings of IEVC 2014, Florence, Italy, Dec 16-19, 2014.
- 18. Garlapati, S., Buja, G., Beroluzzo, M., and Keshri, R.K., Commutation effects on motor current and torque in five-phase PM BLDC drives. In Proceedings of IECON 2014, pp. 3204-3209, Dallas Texas USA, 29 Oct. 1 Nov. 2014.
- 19. Malik, Sadhna, Mishra, Sudhansu Kumar, Optimal Design of a Fuzzy PID controller for Inverted Pendulum System. In International Conference on Communication, Computing and Power Technologies (ICCCPT-2015), Chennai, India, 22-23 April, 2015 (Springer).
- 20. Suman, Sandhya, Mishra, Sudhansu Kumar, Active Noise Control Using Multi Layer Functional Link Artificial Network. In International Conference on Communication, Computing and Power Technologies (ICCCPT-2015), Chennai, India, 22-23 April, 2015 (Springer).
- 21. Mishra, Sarat, Mishra, Sudhansu Kumar, Multi-objective Solution of Economic Emission Dispatch Problem using Non-dominated Sorting Genetic Algorithm. In International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences, Vijayawada, Andhra Pradesh, India, 28 30 March 2015.
- 22. Tripathy, Surya Narayan, Mishra, Sudhansu Kumar, Optimal Design and Dynamic Modeling of Induction Motor using Modified Genetic Algorithm. In International Conference on Computing, Communication, Electrical, Electronics, Devices & Signal Processing, Vijayawada, Andhra Pradesh, India, 28 30 Mar, 2015.
- 23. Baliyan, Arjun, Gaurav, Kumar, Mishra, Sudhansu Kumar, A Review of Short Term Load Forecasting using Artificial Neural Network Models. In International Conference on Intelligent Computing, Communication& Convergence (ICCC-2014), Bhubaneswar, INDIA, 27th- 28th, December 2014 (Elsevier, Procedia Computer Science).
- 24. Mishra, Sudhansu Kumar, "A Comparative Study of Solution of Economic Load Dispatch Problem in Power Systems in the Environmental Perspective", International Conference on Intelligent Computing, Communication& Convergence (ICCC-2014), 27th- 28th, December 2014, Bhubaneswar, INDIA. Elsevier, Procedia Computer Science.
- 25. Gaurav, Kumar, Sahoo, Amit, Mishra, Sudhansu Kumar, Nonlinear System Identification using Functional Link Multilayer Perceptron Artificial Neural Network. In International Conference on Power, Circuit and Information Technologies (ICPCIT-2015), Bangalore, India, 27th-28th April 2015
- 26. Kumar, Dhruba, Ghosh, Debomita, Mohanta, Dusmanta Kumar, Simulation of Phasor Measurement Unit (PMU) in MATLAB. In: Proceedings of the International conference on signal processing and communication engineering systems (SPACES-2015), Andhra Pradesh, India, IEEE, 2-3 Jan., 2015.
- 27. Dey, Soham, Kamlu, Sushma, Mishra, Sudhansu Kumar, Optimization of Fuel Consumption and Emission for Hybrid Electric Vehicle. In International Conference on Communication, Computing and Power Technologies (ICCCPT-2015), Chennai, India, 22-23, April, 2015
- 28. Nand, G. K., Noopur and Neogi, N., Defect detection of steel surface using entropy segmentation. In IEEE INDICON 2014 conference, Pune, India, 11-13 Dec, 2014.

Books

Chapter(s) in Edited Book

- Kumar Gaurav, Sudhansu Kumar Mishra, Nonlinear System Identification Using Clonal Particle Swarm Optimization-based Functional Link Artificial Neural Network, Springer, Book Chapter, Computational Vision and Robotics, Advances in Intelligent Systems and Computing, Volume 32, 2015, pp. 89-96
- 2. Soumya Ranjan, Sudhansu Kumar Mishra, Multi-objective Design Optimization of Three-Phase Induction Motor Using NSGA-II Algorithm, Springer, Book Chapter, Computational Intelligence in Data Mining, Smart Innovation, Systems and Technologies Volume 32, 2015, pp.1-8.
- 3. Manish Kumar, Sudhansu Kumar Mishra, Particle Swarm Optimization-based Functional Link Artificial Neural Network for Medical Image Denoising, Springer, Book Chapter, Computational Vision and Robotics, Advances in Intelligent Systems and Computing, Volume 332, 2015, pp.105-111.

Award / Recognition Bestowed on Faculties (State /National /International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. P.R.Thakura	President	Indian Society of VLSI, Ranchi Chapter	2015
2	2 Dr. P.R.Thakura Chaired a session in the 1st International I Conference on Nano-Electronics, Circuits and Communication Systems (NCCS-2015)		IETE and ISVE	May 9-10, 2015
3	Dr. P.R.Thakura	Member, National Advisory Committee	IETE	Jan,2015
4	4 Dr. P.R.Thakura Member, Board of Studies, M.Tech (Power System & Power Electronics)		NIT, Jamshedpur	12/06/2015
5	5 Dr. Sarbani Chaired a session in the 1st International Chakraborty Conference on Nano-Electronics, Circuits and Communication Systems (NCCS-2015)		IETE and ISVE	May 9-10, 2015
6	Dr. Vijaya Laxmi	Chaired a session in the 1 st International Conference on Nano-Electronics, Circuits and Communication Systems (NCCS-2015)	IETE and ISVE	May 9-10, 2015

Patents (Applied / Granted)

SI. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year
1	Dr. D. K. Mohanta	A Novel Power Monitoring System for Detection,	Application No. 612 / KOL /	2015
		Localization and Classification of Disturbances.	2008, Patent No. 254882	
2	Dr. D. K. Mohanta	A Novel System for Detection and Classification of	Application No. 611 / KOL /	2015
		power System Transmission line Faults.	2008, Patent No. 256209	

MoU / Collaborations

SI. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1	University of Padova, Italy	Research and academic collaboration	June 2011-Dec. 2014

Departmental Students' Activities

S. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
1	MATLAB Workshop	Urjaswit Lal	09/02/2015- 10/02/2015
2	DIP Workshop	Urjaswit Lal	12/02/2015
3	Analog Circuit Design Workshop	Urjaswit Lal	25/03/2015
4	Mentorship program	Urjaswit Lal	Throughout the year

Board of Studies(UG/PG)

Internal Members

1)	HOD, EEE (Ex-Officio)	-	Chairman
2)	Prof. T. Ghose	-	Member
3)	Prof. R. C. Jha	-	Member
4)	Prof. D. K. Mohanta	-	Member
5)	Dr. N. L. Nath, Asso. Prof.	-	Member
6)	Mr. P. Prakash, Asst. Prof.	-	Member
7)	Dr. Mahesh Chandra, Dept. of ECE	-	Member
8)	Prof. G. Sahoo, Dept. of CSE	-	Member

External Experts (Any Two)

9)

- 1) Dr. J. Pal, Prof., Dept. of Electrical Engineering, IIT, Kharagpur
- 2) Dr. A. K. Sinha, Prof., Dept. of Electrical Engineering, IIT, Kharagpur

One student representative each from UG, PG and Ph.D. Programme.

- 3) Dr. D. Das, Prof., Dept. of Electrical Engineering, IIT, Kharagpur
- 4) Dr. S. K. Biswas, Professor, Dept. of EE, Jadavpur University, Kolkata
- 5) Dr. S. K. Goswami, Professor, Dept. of EE, Jadavpur University, Kolkata
- 6) Dr. S. C. Bera, Professor, Dept. of Applied Physics, Instrumentation Engineering Section Calcutta University, Kolkata
- 7) Dr. S. Basu, Mg. Director, Electronics Res. & Dev. Centre. Bose Res. (P) Ltd. Banglore
- 8) Mr. S. B. Prasad, GM, MECON, Ranchi
- Mr. Sandeep Dhir, Chief Employee Training & Development, TISCO, Jamshedpur. 9)

Departmental Academic Committee

1)	Head of Depratment, EEE (Ex-Officio)	-	Chairman
2)	Dr. T. Ghose, Professor, Dept. of EEE	-	Member
3)	Dr. R. C. Jha, Professor, Dept. of EEE	-	Member
4)	Dr. D. K. Mohanta, Professor, Dept. of EE	-	Member

5)	Dr. N. L. Nath, Associate Professor, Dept. of EEE	-	Member
6)	Dr. P.R. Thakura, Associate Professor, Dept. of EEE	-	Member
7)	Dr. V. Laxmi, Associate Professor, Dept. of EEE	-	Member
8)	Dr. S. Chakraborty, Associate Professor, Dept. of EEE	-	Member
9)	Dr. S. K. Mishra, Assistant Professor, Dept. of EEE	-	Member
10)	Dr. D.Ghosh, Assistant Professor, Dept. of EEE	-	Member
11)	Dr. S. K. Ghorai, Professor, Dept. of ECE	-	Member
12)	Dr. G. Sahoo, Professor, Dept. of CSE	-	Member
13)	The Guide (s) of the candidates	_	Member

Other Important Information

- Dr. P.R. Thakura delivered talk on HEV Green Solutions in NaMPET supported National Workshop on Power Electronics on 07-08 Nov, 2014 at BIT, Mesra, Ranchi.
- Dr. P.R. Thakura delivered Invited lecture on Drive Power Electronics and Traction Control for IES probationers in IRIMEE, Jamalpur, 20-21 Jan. 2015.
- Dr. P.R. Thakura delivered invited lecture on ESDM in Hybrid Vehicles in One Day Workshop / Seminar on Electronics Design and Manufacturing supported by Dept. of Electronics & IT GOI under agies of IETE organised by MCIT ,Neora, Patna on 31Jan.,2015.
- Dr. P.R. Thakura delivered invited lecture on Power Management in ESDM in One Day Workshop / Seminar on Electronics Design and Manufacturing [ESDM-2015] supported by Dept. of Electronics & IT GOI under agies of IETE organised by NSIT, Bihta, Patna on 1Feb., 2015.
- Dr. P.R. Thakura delivered invited lecture on Power Management in ESDM in one Day Workshop / Seminar on ESDM-2015 supported by Dept. of Electronics & IT GOI under aegis of IETE organised by RPSIT, Baily Road, Patna on 2Feb.2015.
- Dr. P.R. Thakura delivered invited lecture on Role of ESDM in Hybrid Electric Vehicle ESDM in One Day Workshop/Seminar on ESDM-2015 supported by Dept. of Electronics & IT GOI under agies of IETE organised by Dept. of ECE, BIT Deoghar on 29th March 2015.

Department of Hotel Management and Catering Technology



Department of Hotel Management & Catering Technology of BIT MESRA was established in January-2003. Department offers 4 years (8 Semester) Bachelor's Degree in Hotel Management & Catering Technology (BHMCT). The program lays emphasis on practical application of theoretical lessons through training, laboratory work, hands on workshops, theme parties, and project and study tour. The Department has a well-qualified team of faculty members with a blend of industry experience worked in India and overseas, and academic excellence who are consistently involved in various training, consultancy and research activities. The faculty members put in immense effort for both academic and practical training of the students.

Department is equipped with training kitchens, housekeeping laboratory, front office laboratory, computer laboratory etc. which ensures practical training in a professional environment to students.

Department also publishes its own bi annual blind refereed, research journal JOHAR Journal of Hospitality Application and Research.

As a regular feature Department organizes various workshops and food festivals to cultivate skill among the students.

Among the branded and luxurious hotels in India our Department has gained a very good image and students go on "Industrial Exposure Training" for 18 weeks in various star Hotels such as Taj group of hotels, Oberoi group of hotels, ITC, The Park hotels, Dominos, Specialty Restaurant Ltd. etc. From the past three years Department has achieved the superb 100% quality placement to the students.

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

Sl. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. Praveen Srivastava	International Conference on Business Paradigms in Emerging Markets	BIT	NIT Rourkela	Rourkela	12 – 13 th Dec. '14
2.	Dr. Praveen Srivastava	Corporate Social Responsibility : Need of the hour	BIT	ISM	Ranchi	6 th – 7 th Feb.'15
3.	Dr. Praveen Srivastava	International Seminar on "Sustainable competitive advantage in service sector" (SUCAS) 2015	BIT	SOA University	Bhubneshwar	15 th – 16 th May 2015
4.	Dr. Praveen Srivastava	IX International Conference on Finance and Business Management (ICFBM-14)	Society of Technical and Management Professionals (STMP)	Department of Commerce and Business Management	Ranchi University	11 -12 July'14
5.	Dr. Abhinav Kumar Shandilya	Business paradigms in emerging Markets	BIT	NIT Rourkela	NIT Rourkela	12-12-14
6.	Dr.Abhinav Kumar Shandilya	Multidisciplinary approaches in business management and sustainability	BIT	BIMTECH Bhubaneswar	BIMTECH Bhubaneswar	28-11-14
7.	Dr. Abhinav Kumar Shandilya	STTP on "Six sigma tools and application"	Sponsored by ISTE, New Delhi and SRM university, Chennai)	BIT Mesra, Ranchi.	BIT Mesra, Ranchi.	25-8-15 to 30-8-15
8.	Abhisek Jana	Orientation Programme	UGC	Academic Staff College, Patna University	Academic Staff College, Patna	07/01/15- 03/02/15
9.	Abhisek Jana	Transformational Training Program on Mission Kyaat	IQAC, BIT, Mesra	IQAC, BIT, Mesra	BIT, Mesra	Dec.2014 (1 Week)
10.	Dr. Amit Saran	Orientation Programme	UGC	Academic Staff College, Patna University	Academic Staff College, Patna	07/01/15- 03/02/15
11.	Gautam Shandilya	Orientation Program	UGC	Academic Staff College, Ranchi University	RU	05.11.14 to 02.12.14
12.	Gautam Shandilya	Lean Six Sigma Application and Tools	TEQIP	Production Engg. Department	BIT, MESRA	25.05.15 to 29.05.15

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
13.	Nishikant Kumar	IX International Conference on Finance and Business Management (ICFBM-14)	Society of Technical and Management Professionals (STMP)	Department of Commerce and Business Management	Ranchi University	11 -12 July'14
14.	Nishikant Kumar	Faculty Development Programme on "Pedagogy from Outcome Based Management Education".	AICTE	Department of Management, BIT Mesra, Ranchi	BIT Mesra, Ranchi.	21 April – 05 May'15
15.	SanjivKr. Srivastava	Lean Six Sigma Application and Tools	TEQIP	Production Engg. Department	BIT, MESRA	25.05.15 to 29.05.15
16.	Sanjiv Kr. Srivastava	Orientation	U.G.C	Academic Staff College, Ranchi University	Ranchi University	05.11.14- 02.12.14
17.	Dr.Rajeshwari Chatterjee	Orientation	UGC	Academic Staff College Jadavpur University	Jadavpur University	14.12.15- 13.1.15
18.	Pratima Ekka	Orientation	UGC	Academic Staff College Ranchi University	Ranchi University	15.5.15 -11.6.15

Publications

International Journals

- 1. Srivastava, P., & Srivastava, S. FDI in Hospitality Sector A review, Asian Mirror International Journal of Research, 2014, 1(2), 34-44.
- 2. Srivastava, P. Satisfaction of internal customer in higher education A case study of Jharkhand, International journal on customer relations, 2015 3(1), 31-35.
- 3. Shandilya, A. K., Urban consumers' preference for organized and unorganized food retailing in the state of Jharkhand, India. International Journal of Hospitality and tourism system.,2014, 9(2), 9-18.
- 4. Jana, A. The Marketing Effectiveness of Hotels Advertisement in Social Sites (Facebook): A Case Study of Central Ranchi, Asian Mirror International Journal of Research, 2015, 67-81.
- 5. Jana, A. & Chatterjee, R. The Effect of Servicescape of Casual Restaurants on Youths' Dining Experience, International Journal of Customer relations, 2014, 2 (2), 37-44.
- 6. Saran, A. The role of media in changing food habit of the children-A case study of Ranchi, Asian Mirror-An International journal of research, 2015, 2(2) 63-79
- 7. Shandilya, G., Emperical study of HRM strategies and labour turnover in the hotel industry. Asian Mirror, 2015, 29–35.

- 8. Shandilya, G., Scope and Challenges of Event Management in India. AEIJMR, 2015, 89-92
- 9. Srivastava, S.K., CRM: A paradigm shift in hotel Marketing. Asian Mirror, 2015, 2(2), 21-28.
- 10. Srivastava, S.K., An Empirical study on FDI in service sector. Asian Mirror, 2015, 2(1), 1-14.

National Journals

- 1. Srivastava, P., Measuring service quality in restaurants of Jharkhand using Dineserv Model, AVAHAN: A Journal on Hospitality and Tourism, 2014, 2(1), 1-10.
- 2. Shandilya, A. K., A mélange of food outlets consumers' behaviour: specifying geographical area issues of Jharkhand. ATITHI Journal of Hospitality and Tourism. 2014, 30-39.
- 3. Jana, A. Impacts of the Attributes of Service Quality on Customer Satisfaction and the Interrelationship among Service Quality, Customer Satisfaction and Customer Loyalty, Journal of Hospitality Application and Research, 2014, 9 (2), 46-60.

National Proceedings

- 1. Srivastava, P., Study of Hotel Employee's Satisfaction in Jharkhand, in proceeding of National Seminar on Redefining the Human Resource Paradigm in changing cultural, Social and Economic Environment, Prestige Institute of Management, Gwalior 2014.
- 2. Srivastava, P., Gender Differences in Entrepreneurship, in proceeding of National Seminar on Unleashing Entrepreneurship in India: Opportunity and Challenges, ICFAI, Ranchi 2014.
- 3. Shandilya, A. K., Tourism enterprises & rural entrepreneurship in Jharkhand: prospects and challenges. In proceedings of Unleashing entrepreneurship in India: opportunities and challenges, ICFAI University, Jharkhand, 2014

Book:

Single Authored

- 1. Jana A., & Srivastava, P., United Colours of Alcohol, Trident Publication, ISBN 9788193094686. (2015)
- 2. Srivastava, S., Srivastava, P.&Shandilya G., Introduction to Hotel Industry, University Science Press, Laxmi Publication, ISBN 978-93-84872-36-6. (2015)
- 3. Shandilya, A. K., A text book of Food Production Foundation, Trinity Press, New Delhi, (2015)

Chapter(s) in Edited Book

- 1. Srivastava, P., Measuring Guest perception of service quality in Tourism Product: A case study of Hotels in Jharkhand. In Travel Tourism and Hospitality- Emerging Perspective and Paradigm, (ed.–Singh, S.C, Abraham, V., Gupta S.) Globus Press, 2014 pp. 24-35.
- 2. Chattoraj, A.K., Srivastava, P.& Srivastava, S., Ethical behaviour and decision making in Management. In New Approach. In Human Resource and Marketing Management. (ed.–Prakash, V. &Sah, R.K.) Bharti Publication, 2014 pp. 361-366.
- 3. Jana, A., Chandra, B., Role of Business Ethics in Hospitality Industry: An Exploratory Study,in edited book Effectiveness, Ethics and Sustainability, Excel India Publisher, 2014, pp. 92-97.

4. Kumar, N., Corporate social Responsibility in tourism sector for promoting awareness and community development. In Rajpal Singh Rawat, Manju, RaghvendraDwivedi (Eds.), New Approach in Strategic and Operation Management. Bharti Publications, New Delhi, 2014, pp. 342-349.

Award / Recognition Bestowed on Faculties (State / National / International)

Sl. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. Abhinav K. Shandilya	Regional Vice president: East	Indian Hospitality Congress	2015

Board of Studies

UG:-

1.	Head/ In charge, HMCT	-	Chairman (Ex Officio)
2.	Mr. Praveen Srivastava, Asst. Professor	-	Member
3.	Mr. Nishikant Kumar, Asst. Professor	-	Member
4.	Mr. Abhinav Kr. Shandilya, Asst. Professor	-	Member
5.	Mr. Abhisek Jana, Asst. Professor	-	Member
6.	Mr. Gautam Shandilya, Asst. Professor	-	Member
7.	Dr. (Ms.) Rajeshwari Chateerjee, Asst. Professor	-	Member
8.	Mr. Sanjiv Kr. Srivastava, Asst. Professor	-	Member
9.	Dr. Amit Saran, Asst. Professor	-	Member
10.	Dr. S.K. Bose, Professor, Dept. of Management	-	Member
11.	Dr. B. N. Sinha, Professor, Dept. of Pharm. Sci. & Tech.	-	Member
12.	Dr. Saswati Ghosh, Assistant Professor, Dept. of Biotechnology	-	Member

External Members (Any Two):-

- 1. General Manager, Hotel Radisson Blu
- 2. General Manager, Hotel Ranchi Ashok
- 3. Principal, IHMCTAN, Hazipur
- 4. Principal, NSHM, Durgapur
- 5. General Manager, JTDC, Ranchi.
- 6. Front Office Manager, Hotel Golden Tulip

Departmental Academic Committee

- 1. Head/In charge, HMCT Chairman (Ex Officio) 2. Prof. Praveen Srivastava, Asst. Professor Member
- 3. Prof. Abhinav Kr. Shandilya, Asst. Professor Member

Department of Management

The Department of Management was founded in 1979 to impart holistic management education to potential young managers and has completed more than 30 glorious years of its existence. The programmes offered by the Department lay special emphasis on nurturing personal integrity and social responsibility among the students. With its massive infrastructure base of well-equipped library and computer labs, seminar and conference rooms, the Department of Management strives to impart better contemporary education to the students.

The Bi-annual journal of the Department 'The Alternative' and quarterly newsletter, 'Manage-a-Bit' have gained in popularity in the management community. Many new institutions have shown their interest for subscription as well as in obtaining the journal on exchange basis.

Degree/Diploma offered: The following programmes are being offered by the Department:

- 1. Ph.D. in Management
- 2. Master of Business Administration (2 years Full-Time/3 years Part-time).

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short - term Courses
1.	Annual conference of the Indian Society of Labour Economics	Dr Manju Bhagat	ICSSR, UGC, ILO	18-20 Dec 2014
2.	FDP "Contemporary HR Trends & Practices	Dr Utpaul Baul	AICTE	06th April to 21st April, 2015
3.	FDP"Pedagogy from Outcome based Management Education"	Dr Shraddha Shivani	AICTE	21st April to 5th May 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. P.C. Jha	Annual conference of the Indian Society of Labour Economics	ICSSR, UGC, ILO	I.S.L.E & B.I.T, Mesra, Ranchi	B.I.T Mesra	18-20 Dec 2014
2.	Dr. Rohit Pandey	Annual conference of the Indian Society of Labour Economics	ICSSR, UGC, ILO	I.S.L.E & B.I.T, Mesra, Ranchi	B.I.T Mesra	18-20 Dec 2014
3.	Dr. Dharmendra Chand	Annual conference of the Indian Society of Labour Economics	ICSSR, UGC, ILO	I.S.L.E & B.I.T, Mesra, Ranchi	B.I.T Mesra	18-20 Dec 2014
4.	Dr. Amitabh Verma	Annual conference of the Indian Society of Labour Economics	ICSSR, UGC, ILO	I.S.L.E & B.I.T, Mesra, Ranchi	B.I.T Mesra	18-20 Dec 2014

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
5.	Dr. Rohini Jha	Annual conference of the Indian Society of Labour Economics	ICSSR, UGC, ILO	I.S.L.E & B.I.T, Mesra, Ranchi	B.I.T Mesra	18-20 Dec 2014
6.	Dr. Rohit Pandey	KYAAT (Know yourself as a teacher)	IQAC	B.I.T, Mesra, Ranchi	B.I.T Mesra	24-28 th Nov. 2014
7.	Dr. P.C. Jha	KYAAT (Know yourself as a teacher)	IQAC	B.I.T, Mesra, Ranchi	B.I.T Mesra	24-28 th Nov. 2014
8.	Dr. Dharmendra Chand	KYAAT (Know yourself as a teacher)	IQAC	B.I.T, Mesra,Ranchi	B.I.T Mesra	24-28 th Nov. 2014
9.	Sujata Priyambada Dash	80 th Orientation Programme	UGC	Ranchi University, Ranchi.	Academic Staff College, Ranchi University, Ranchi.	5 th Nov to 2nd Dec 2014.
10.	Dr. P.C. Jha	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
11.	Dr. Dharmendra Chand	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
12.	Dr. Rohit Pandey	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
13.	Dr. Rohini Jha	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
16.	Sujata Priyambada Dash	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
17.	Anand Prasad Sinha	Contemporary HR Trends and Practices	AICTE	Department of Management, BIT, Mesra, Ranchi.	B.I.T. Mesra	06 th April to 21 st April, 2015.
18.	Dr. Anupam Ghosh	Consumer Behavior: Role of Market Research	AICTE	Vinod Gupta School of Management; I.I.T Kharagpur	I.I.T Kharagpur	3 rd -9 th May 2015

Publications

International Journals

- 1. Debnath, S. &Bose, S. K.; Resources, Conservation, and Recycling, Elsevier 83 (2014), pp. 87-95.
- 2. Debnath, S., Bose, S. K., & Dhalla, R. S; Journal of CSR and Sustainability, ITM Mumbai, 01(2014), 1(1) pp.10-23.
- 3. Ramkumar Rudrabhatla, Supriyo Roy, S.K. Bose; Business and Enterprises Application, International Journal of Engineering, (2015), 12, Vol. 1, pp. 70-76.
- 4. Roy Supriyo, Singh Sidh Nath, Strategic Planning for Management of Technology an Empirical Study with Indian Steel Sectors. Sage publications (2015), Vol. 19, Issue No. 2, pp. 112-131
- 5. Roy Supriyo& Kumar Kaushik, Algorithm Based Optimization for Decision Making on Process Parameters: A Soft Computing Approach, International Journal of Applied Engineering Research, (2015) Vol. No. 10, No. 55, pp. 3662-3667
- 6. Pattnaik Santosh & Roy Supriyo, Synergizing Business Process Reengineering with Enterprise Resource Planning in the Capital Goods Industry. Journal of Social and Behavioral Sciences' Elsevier Ltd., (2015), Vol. No. 189, pp. 471-487.
- 7. Rudrabhatla Ramkumar, Roy Supriyo, Kumar Kaushik, (2015), Role of Microfinance for Improving Quality of Life by Providing Financial Services to Low-income Group: A Critical Review. International Journal of Applied Engineering Research, Vol. No. 10, No.55, pp. 4136-4142.
- 8. Rudrabhatla Ramkumar, Roy Supriyo& Bose S.K (2015), Role of Micro Finance Institutions Models in Improving Quality of Life- A Critical Review. International Journal of Engineering, Business and Enterprises Application (IJEBEA), USA, Vol. 1, Issue 12, pp. 70-76.
- 9. Vyas R. K, Roy Supriyo & Kumar Kaushik, (2015), Management of Micro Irrigation System in Arid Areas of India: A Conceptual Framework. International Journal of Applied Engineering Research, Vol. 10, No. 55, pp. 3689-3693.
- 10. Sinha Anand Prasad, Roy Supriyo (2015), Strategic Planning towards Effective Management of New Technology in Open Cast Mines. International Journal of Emerging Techniques in Computational and Applied Sciences, Issue 11, Volume 3, pp. 247-254.
- 11. Banerjee, T.K, Roy Supriyo & Dey Shubhomoy, (2014), A GIS based approach for an Integrated Underground Coal Mine Management: A Conceptual Framework. Journal of Management Policies & Practices, by American Research Institution for Policy Development, Monticello, USA Vol. 2, No. 2, pp. 129-143
- 12. Banerjee Tanmoy, Roy Suproyo & Dey Shubhomoy (2014), Location of Pit in Underground Mining: a Geometrical Approach. International Journal of Managerial Studies and Research, Vol. 2, Issue-5, pp. 99-108
- 13. Srivastava, Shelly, Impact of CRM in customer loyalty and retention. Asian Mirror International Journal of Research, 2015, II(1), 15-30.
- 14. Srivastava, Praveen, & Srivastava, Shelly, FDI in Hospitality Sector A Review. Asian Mirror International Journal of Research, 2014, I(2), 34-44.

- 15. Choudhury, A. &Ghosh,A.(2015), "Development through Prime Minister Employment Generation Programme in India". Mediterranean Journal of Social Sciences, 6(3), 435-444.
- 16. Jandayals & Bhagat, M. Training programme evaluation in the field of disability rehabilitation on review literature. Online International Interdisciplinary research Journal, IV(II),2014, 183-191.
- 17. Shyama Kumari, S Shivani, "Female Portrayals in Advertising and its Impact on Marketing Communication; Evidences from India", "Management and Labour Studies", XLRI, Vol. 39, No.4, Sage Publications, 2015
- 18. Shyama Kumari, S Shivani, "Mapping the Portrayal of Females in Contemporary Indian Advertisements A Content Analysis Approach", Media Watch, published by Media Watch Global, May 2015

National

- 1) Roy, Supriyo, Mishra P.K (2014). Strategic Sourcing for Manufacturing Industry in the era of Globalization-a critical review. The Alternative, Journal of Management Studies and Research, Vol. XIII, No. 2, pp. 27-41
- 2) Bhagat. M, Dutta M, & Bhatia N, Nitty gritty of industrial relations getting feeble: A case of Nokia, Sriperumbudur plant, Indian Journal of Labour Economics conference, volume, 2014,218-219
- 3) Debjani Banerjee, S Shivani, "Has Modern Retailing In India Influenced Consumption Expenditure Behaviour of Urban Socio Economic Classes?", Indian Journal of Marketing, Vol 45 No 6, Jan 2015.
- 4) Debjani Bannerjee, S Shivani, Influence of Organized Retail over Unorganized Micro Small and Medium Retail Stores in Boosting Consumption and Its Impact in Economic Development", Journal Of Development Research, Vol 7 No 2, A Journal of Vivekanand Education Society's Institute of Management Studies and Research, Oct, 2014.

Book:

Chapter(s) in Edited Book

- 1) Roy Supriyo, Kumar Kaushik (2015). Optimization of inventory for Optimal Replenishment Policies and Lead time with Time varying Demand: a Genetic Algorithmic Approach. Accepted for Publication after two revisions as chapter for the forthcoming International book title 'Optimal Inventory Control and Management Techniques' (Eds. Dr. Nita Shah and Dr. Mandeep Mittal) from IGI Global, New Jursey, USA. (Paper ID: 250315-031143)
- 2) Roy Supriyo, Kumar Kaushik (2015). Strategic Planning of Cold Supply Chain towards Good Manufacturing Practices: Issues and Challenges in Indian Market. Accepted for Publication after revision as chapter for the forthcoming International book title 'Maximizing Business Performance and Efficiency through Intelligent Systems' (Eds. O.P. Rishi and Anukrati Sharma) from IGI Global, New Jersey, USA. (Paper ID: 140715-113212)
- 3) Srivastava, Shelly Roy, Supriyo (2014). Entrepreneurial Strategic Decision Making.......is it Idiosyncratic? Published in Edited volume of the book entitled Unleashing Entrepreneurship in India: Opportunities and Challenges (Ed.) by S. K. Swain and C. Sinha, ICFAI University, Lords Publishing House, pp. 32-36
- 4) Chatoraj, A.K., Srivastava, P., & Srivastava, Shelly Ethical behaviour and decision making in Management. In New Approach In Human Resource and Marketing Management (ed. Prakash, V., & Sah, R.K.) Bharti Publication, 2014, pp 361-366.

5) Shyama Kumari, S Shivani "Consumer Responses to Female Portrayals in Advertising – an Indian Perspective" published as Invited Paper in the edited book "Key pillars to Business Success: Strategy Innovation & Technology", Excel Books, New Delhi, ISBN 978-93-5062-372-5, 2014.

Award / Recognition Bestowed on Faculties (State / National / International)

Sl. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. Anupam Ghosh	Stood 1st (certificate provided) in the	I.I.T Kharagpur	3rd-9th May 2015
		assessment exam of the AICTE workshop		
		at I.I.T Kharagpur		

Departmental Students' Activities

Sl. No.	Name of the Activity	Date/Duration		
1.	Guest Lecture by Dr. Hari Haran	30.07.2015		
2.	Conundrum (Management Games)	16.04.2015		
3.	Competency development programme (soft skills)	This programme has been initiated by the Department to develop/enhance the personality/soft skills of the students and is held every Tuesday in the Department. 2013-15 batch (2 nd year), 2014-16 batch (1 st year)		
4.	Industrial visit to Patratu Thermal Power Station	02.02.2015		
5.	Industrial visit to Heavy Engineering Corporation Limited.	26.08.2014		

Department of Mathematics

The Mathematics Department offers facilities for research work leading to Ph.D. degree in different areas of Mathematics. Besides this, the Department not only teaches various topics in mathematics to undergraduate and post graduate students of different Departments of the institute, but also runs its own M.Sc. course. The Department also has its own state of the art Computational Laboratory. The faculty members of the Department are actively engaged in research in the areas of Computational Solid Mechanics, Differential Equations, Mathematical Modelling, Seismology, Fuzzy Logic, Optimisation Techniques, Combinatorial Topology, Numerical Analysis, Quantum Information Theory etc.

Programmes Offered

- Integrated MSc. (Mathematics & Computing) 5 years
- M.Sc. (Mathematics) 2 years
- Ph.D. (Science)

Sponsored projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	A Decision Support	PI: Dr. P. Kaur	UGC	April 2013	11, 50, 800	3 years
	System for Vendor	Co. PI: Dr. Saral Kumar				
	Selection Problem	Jain				
	under intuitionistic fuzzy					
	environment					

Publications:

International Journals

- 1. Kumar, P., Sandhu H. K. and Chakraborty, S.K., "Isolation of plane shear wave using water saturated trench barrier" Soil Dynamics and Earthquake Engineering, 59, 42-50 (Elsevier) (2014).
- 2. Kalyani, V.K., Pallavika, Chakraborty, S. K., Finite - difference time - domain method for modeling of seismic wave propagation in viscoelastic media, Applied Mathematics and Computation, 237, 133-145 (Elsevier)(2014),
- 3. Kumar, S., and Chakraborty, S.K. Displacement Response of Multi-Storey Structures with Flexible Foundation Due to Plane-Shear Waves Excitation. International Journal of Earthquake Engineering and Hazard Mitigation, PWP, Vol. 2, No. 3, pp. 71-79(2014).
- 4. Kumar, S., and Chakraborty, S.K. Response Analysis of Structural Building Excited by Seismic Waves Using Finite Difference Method, International Journal of Structural Engineering, Inderscience, Vol. 6, No. 2, pp. 123-139 (2014).

- 5. Kaur, P., Selection of Vendor Based on Intuitionistic Fuzzy AnalyticalHierarchy Process, Advances in Operations Research, (2014).
- 6. Kaur, P. An Intuitionistic Fuzzy Multi-Objective VendorSelection Problem, Applied Mathematical Sciences, 8(149), pp 7443 7452 (2014).
- 7. Kaur, P., An Intutionistic Fuzzy Optimization Approach For The Vendor Selection Problem, International Journal of Physical and Social Sciences, 5(9), pp 109-121 (2015).
- 8. Kaur, P., and Kumar, R., Optimization Of Vendor Selection Problem Using Linear IntutionisticFuzzy Model, International Journal of Physical and Social Sciences, 5(9), pp 150-162 (2015).
- 9. Kaur, P., An intutionistic multidimensional analysis of preference in vendor selection problem, Mathematical Sciences: International Research Journal, 4(1) (2015).
- 10. Kaur, P., and Deb, M., An Intuitionistic Approach for Price Breaks in EOQ from Buyer's Perspective, Applied Mathematical Sciences, 9, pp 3511-3523 (2015).
- 11. Adhikari, S., Roy, S., Chakraborty, S., Jagadish, V., Ha, ris, M. K. Kumar, A., Controlled Secret Sharing Protocol using a Quantum Cloning Circuit, Quantum Information Processing 13, pp 2071-2080 (2014).
- 12. Adhikari, S, Home, D., Majumdar, A. S., Pan, A. K., Shenoy, A, Srikanth, H.R., Toward Secure communication using intra-particle entanglement, Quantum Information Processing 14, pp 1451-1468 (2014).
- 13. Singh,R. and Kumar, J., An efficient numerical technique for the solution of nonlinear singular boundary value problems, Computer Physics Communications, Vol.185, No. 4, 1282--1289(2014). (Elsevier, SCI, I.F 3.212)
- 14. Singh, R., Kumar, J., Nelakanti, G., A new efficient technique for solving two-point boundary value problems for integro-differential equations, Journal of Mathematical Chemistry, Vol. 52, No. 8, 2030-2051 (2014) (Springer, SCI, I.F 1.270).
- 15. Singh, R., Kumar, J., and Nelakanti, G., Approximate series solution of fourth-order boundary value problems using decomposition method with Green's function, Journal of Mathematical Chemistry, Vol. 52, No. 4, 1099-1118 (2014) (Springer, SCI, I.F 1.270)
- 16. Singh, R. and Wazwaz, A.M., An efficient approach for solving second-order nonlinear differential equation with Neumann boundary conditions, Journal of Mathematical Chemistry, Vol. 53, No. 2, 767-790 (2015) (Springer, SCI, I.F 1.270)
- 17. Singh, R., Nelakanti, G., Kumar, J., Approximate solution of two-point boundary value problems using Adomian decomposition method with Green's function, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Vol. 85, No. 2, 51--61 (2015) (Springer, SCI I.F 0.242)
- 18. Singh, R. and Kumar, J., Adomian decomposition method for solving fragmentation and aggregation population balance equations, Journal of Applied Mathematics and Computing, Vol. 48, N0 1-2 265-292(2015), (Springer, MathSciNet)
- 19. Kaushik Haldar, Bimal Kumar Mishra, Clustering Chaos Solitons and Fractals, doi :10.1016/j. chaos. 2015.07.013, Vol. 78, 2014

- 20. Kaushik Haldar, Bimal Kumar Mishra, A Mathematical Model for a Distributed Attack on Targeted Resources in a Computer Network Communications in Nonlinear Science and Numerical Simulations, doi: 10.1016/j.cnsns.2014.01.028
- 21. Bimal Kumar Mishra, Indu Tyagi, Defending against malicious threats in wireless sensor network: A Mathematical Model, International Journal of Information Technology and Computer Science, Volume 6, Issue no.03, pp 12 -19, 2014
- 22. Neha Keshri, Bimal Kumar Mishra, Two time-delay dynamic model on the transmission of malicious signals in Wireless Sensor Network Chaos, Solitons and Fractals,68(2014), 151-158
- 23. Buddhadeo Mahato, Bimal Kumar Mishra, Anurag Jayswal, BinayKumar Mishra, Mathematical model of malaria for co-infection of Plasmodium vivax and Plasmodium falciparum in India British Microbiology Research Journal, 5(3),285-299,2015
- 24. Bimal Kumar Mishra, Predator-Prey Models on Interaction between Malicious Objects and Anti-Malicious, Int. Journal of Grid Distribution and Computing, 7(3),2014,251-272
- 25. Sounak Paul, Bimal Kumar Mishra, Survey of Polymorphic worm signature Int. Journal of uand e-service Science and Technology, 7(3),2014,129-150.

National Journals

1. Kaur, P., and Deb, M., An Intuitionistic Approach to an Inventory Model without Shortages, International Journal of Pure and Applied Sciences and Technology, 22(2), 2014, pp 25-35.

Book:

Chakraborty, S., Mazzola G., Tiwari, S. and Patra, M., Computational Musicology in Hindustani Music, Springer International Publishing, ISBN No.: 978-3-319-11471-2. (Monograph).

Book Chapter:

e-Epidemic Models on the Attack and Defense of Malicious Objects in Networks - Bimal Kumar Mishra, Kaushik Haldar, Theories and Simulations of Complex Social Systems, Intelligent Systems Reference Library, Springer Berlin Heidelberg, Editors: VahidDabbaghian, Vijay Kumar Mago, ISBN: 978-3-642-39148-4

Board of Studies(UG/PG)

Internal Members

1	HOD/ In-Charge	Chairman (Ex-Officio)
2	Dr. Saral Kumar Jain	Professor
3	Dr. S.K. Chakraborty	Professor
4	Dr. Bimal Kumar Mishra	Professor
5	Dr. Seshadev Padhi	Professor
6	Dr. Soubhik Chakraborty	Professor

2014-15

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7	Dr. (Mrs.) Anjana Pradhan Ghorai	Associate Professor
8	Dr. Abhinav Tandon	Assistant Professor
9	Dr. Satyabrata Adhikari	Assistant Professor
10	Dr. G. Sahoo	Professor, Deptt. Of CSE, B.I.T., Mesra
11	Dr. S. Konar	Professor, Deptt. Of Physics, B.I.T., Mesra

External Members

1	Prof. D. K. Gupta	Professor, Dept. of Mathematics, IIT Kharagpur
2	Prof. Satyajit Roy	Professor, Dept. of Mathematics, IIT Madras
3	Prof. K. C. Prasad	Retired Professor, Dept. of Mathematics, Ranchi University
4	Prof Vijay Gupta	Professor and Head, Dept. of Mathematics, NSIT, Delhi
5	Prof. S. Chakraborty	Professor& Head, Dept. of Mathematics, N.I.T. Rourekela

Departmental Academic Committee

1.	Dr. S. K. Jain	2.	Dr. S. K. Chakraborty
3.	Dr. B. K. Mishra	4.	Dr. S. Padhi
5.	Dr. S. Chakraborty	6.	Dr. S. S. Roy

- Dr. (Ms.) A. P. Ghorai
 Dr. (Ms.) P. Kaur
 Dr. Abhinav Tandon
 Dr. Satyabrata Adhikari
 Dr. Randhir Singh
 Dr. Anand Kumar Tiwari
- 15. Prof. A. K. Sinha (External Member)

Other Important Information

Dr. (Ms.) S.D. Jabeen

13.

Professor (Dr.) B.K. Mishra appointed Associate Editor of International Journal of Information Technology and Computer Sciences (Korea)

14. Prof. Ashok Kumar Roy (External Member)

Department of Mechanical Engineering



Since its inception in 1955, the Department of Mechanical Engineering has gained a solid reputation for the quality of teaching and research it offers. It has been awarded top grades for both teaching and research activities from independent and government bodies. The excellent laboratory facilities, modern computer clusters, systematically designed curriculum, and dedicated faculty members make this Department a dynamic place to study.

Mechanical Engineering Graduates of this Institute are recruited by many reputed national as well as multinational companies.

The Department of Mechanical Engineering offers the following programs at undergraduate/postgraduate and Doctoral level:

- I) B.E. (Mechanical Engineering)
- II) M.E. (Mechanical Engineering)

Specialization:

- a) Heat Power Engineering
- b) Design of Mechanical Equipment
- c) Computer Aided Analysis & Design
- III) M.Tech. (Energy Technology)
- IV) Ph.D. in Mechanical and Interdisciplinary field.

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended:

SI. No.	Name of the Faculty	Title of the Conference / Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr. D.P. Mishra	Advances in Computational Heat Transfer	TEQIP	Mech. Engg. Dept., IIT Delhi	IIT Delhi	21 to 23 rd May 2015
2.	Dr. Kaushik Kumar	12 th Global Congress on Manufacturing and Management (GCMM 2014)	TEQIP	School of Mechanical and Building Sciences, VIT University in Association with Queensland University of Technology, Australia	VIT University	8-10 th December 2014
3.	Dr. Kaushik Kumar	International Conference on Emerging trends in Manufacturing, Engines and Modelling (ICEMEM-2015)	TEQIP	Department of Mechanical Engineering SVKM'S NMIMS, Mukesh Patel School of Tech. Management & Engineering; Shirpur, Maharashtra, India	SVKM'S NMIMS, Shirpur, Dhule District, Maharashtra, India	27 th & 28 th February 2015
4.	Dr. Kaushik Kumar	International Conference on Advances in Applied Engineering and Technology – 2015 (ICAAET'15)	TEQIP	Syed Ammal Engineering College, Ramanathapuram, Tamilnadu, India.	Syed Ammal Engineering College, Ra- manathapuram, Tamilnadu, India.	14th – 16th, May 2015
5	Dr. Arbind Kumar II	Recent Trends in Solar Energy Technology	TEQIP	IIT Delhi	IIT Delhi	16th -23rd June- 15
6	Dr Rajeev Kumar	Pedagogy in Kinematics of Machines	TEQIP	IIT Delhi	IIT Delhi	28th -29th August 2014
7	Dr Arbind Kumar II	Pedagogy in Kinematics of Machines	TEQIP	IIT Delhi	IIT Delhi	28th -29th August 2014

Publications:

International Journals

- 1. Prakash, O., Kumar, A., Annual Performance of Modified Greenhouse Dryer under Passive Mode in No-Load Conditions, International Journal of Green Energy, 2015, Taylor and Francis; 12, 1091–1099.
- 2. Prakash, O., Kumar, A., Kaviti, A.K., Kumar, P.V., Prediction of Moisture Evaporation Rate from Jaggery in Green House Drying Using Fuzzy Logic, Heat transfer research, 2015, 46(10), 923–935.
- 3. Dhole A.E., Yarasu R.B., Lata D.B., AbhishekPriyam, Effect on performance and emissions of a dual fuel diesel engine using hydrogen and producer gas as secondary fuels. Int. J. Hydrogen Energy, 2014,39, 8087 8097,ISSN: 0360-3199

- 4. Dhole A.E., Yarasu R.B., Lata D.B., SS Baraskar, Shaw D., Mathematical Modeling for the Performance and Emission parameters of Dual Fuel Diesel Engine using Producer gas as Secondary Fuel. Biomass Conv. Bioref. 2014, DOI 10.1007/s13399-014-0142-6.ISSN: 2190-6815.
- 5. Mishra S.K., Sharma V., Mishra A., Effect of rate of deformation on electromagnetic radiation during quasi-static compression of sintered aluminium performs, International Journal of Materials Research (FormerlyZeitschriftfürMetallkunde), 2014, 105(3), pp. 265-271 doi: 10.3139/146.111014
- 6. Sumit Raj and Kaushik Kumar, Optimization and Prediction of Surface Roughness in Die Sinking Electro-Discharge Machining of EN45 Steel Tool, International Journal of Applied Engineering Research, 2015, Vol. 10, No.11, pp. 10054 10057, ISSN: 0973-4562.
- 7. Anuj Dixit and Kaushik Kumar, Optimization of Wear Characteristics of Silica Gel Reinforced Aluminium Metal Matrix Composite Using Taguchi Method, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10058 10062, ISSN: 0973-4562.
- 8. Abhishek Tiwary, Amitava Mandal and Kaushik Kumar, Optimization of Overcut and MRR in Electrochemical Machining of EN31 Tool Steel using Grey-Taguchi Approach, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10070 10074, ISSN: 0973-4562.
- 9. Abhishek Tiwary, Amitava Mandal and Kaushik Kumar, Optimization of Surface Roughness in Electrochemical Machining for EN 19 Using Artificial Neural Network, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10075 10079, ISSN: 0973-4562.
- Arnav Prakash, Gautam Sarkhel and Kaushik Kumar, Study of Mechanical Properties of Kaolin Reinforced Epoxy Composite, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10080 – 10084, ISSN: 0973-4562.
- Milan Kumar Das, Kaushik Kumar, Tapan Kumar Barman & Prasanta Sahoo, Prediction of Surface Roughness in Plasma Arc Cutting of EN31 Steel Using Artificial Neural Network, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10085 – 10089, ISSN: 0973-4562.
- 12. Santosh Shukla, Apurba Kumar Roy and Kaushik Kumar, Analysis of Mixed Flow Pump Impeller of Stainless Steel Material Using ANSYS, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10181 10186, ISSN: 0973-4562.
- 13. Anuj Dixit and Kaushik Kumar, Optimization of Wear rate and Coefficient of Friction in Silica Gel Reinforced Aluminium Metal Matrix Composites Using Grey-Taguchi Technique, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 11, pp. 10208 10212, ISSN: 0973-4562.
- 14. J. Sudeepan, K. Kumar, T. K. Barman, and P. Sahoo, Study of mechanical and tribological properties of ABS/ZnO polymer composites Advanced Materials Manufacturing & Characterization, 2015, Vol.5, Issue 1, pp. 125 135.
- 15. Milan Kumar Das, Kaushik Kumar, Tapan Kumar Barman & Prasanta Sahoo, Optimization of WEDM Process Parameters for MRR and Surface Roughness using Taguchi-Based Grey Relational Analysis, International Journal of Materials Forming and Machining Processes, 2015, Vol. 2, No. 1, pp. 1 25.
- 16. Milan Kumar Das, Kaushik Kumar, Tapan Kumar Barman, and Prasanta Sahoo, Prediction of Surface Roughness in EDM using Response Surface Methodology and Artificial Neural Network, Journal of Manufacturing Technology Research, ISSN: 2250-0553, 2015, Vol.6, No. 3/4, pp. 93 112.

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- 17. J. Sudeepan, K. Kumar, T. K. Barman, and P. Sahoo, Study of mechanical and tribological properties of ABS/clay polymer composite using Taguchi optimization method, Journal of Manufacturing Technology Research, ISSN: 2250-0553, 2015, Vol.6, No. 3/4, pp. 153 175.
- 18. Sumit Raj and Kaushik Kumar, Optimization of MRR and Overcut in Die Sinking Electro-Discharge Machining of EN45 Material Using Grey-Taguchi Technique, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3652 3656, ISSN: 0973-4562.
- 19. Santosh Shukla, Apurba Kumar Roy and Kaushik Kumar, Optimization of Thickness of Blades of Different Materials in a Mixed Flow Pump Impeller, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3657 3661, ISSN: 0973-4562.
- 20. Supriyo Roy and Kaushik Kumar, Genetic Algorithm Based Optimization for Decision Making on Process Parameters: A Soft Computing Approach, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3662 3667, ISSN: 0973-4562.
- 21. Anuj Dixit and Kaushik Kumar, Optimization of Tensile Strength and Flexural Strength in Silica Gel Reinforced Aluminium Metal Matrix Composites Using grey-Taguchi Method, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3668 3672, ISSN: 0973-4562.
- 22. Arnav Prakash, Gautam Sarkhel and Kaushik Kumar, Multi-objective Strength Optimization for Kaolin Reinforced Epoxy Composite Using Grey-Taguchi Approach, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3673 3677, ISSN: 0973-4562.
- 23. Abhishek Tiwari, Amitava Mandal and Kaushik Kumar, Optimization of ECM Process for machining of EN-19 with Multiquality Characteristics via Grey–Taguchi Approach, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3678 3682, ISSN: 0973-4562.
- 24. Abhishek Tiwari, Amitava Mandal and Kaushik Kumar, Optimization of Material Removal Rate in Electrochemical Machining for EN 19 Material Using Fuzzy logic, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3683 3688, ISSN: 0973-4562.
- 25. R.K. Vyas, Supriyo Roy and Kaushik Kumar, Management of Micro Irrigation System in Arid Areas of India: A Conceptual Framework, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3689 3693, ISSN: 0973-4562.
- 26. Utkarsh and Kaushik Kumar, Optimization of process parameters in Electro-Discharge Machining of Aluminium Carbide composite based on MRR using Taguchi Technique, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3707 3711, ISSN: 0973-4562.
- 27. Anuj Dixit and Kaushik Kumar, Optimization of Wear Characteristics of Silica Gel Reinforced Aluminium Metal Matrix Composites Based on Taguchi Coupled Fuzzy Logic, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3736 3740, ISSN: 0973-4562.
- 28. Sumit Raj and Kaushik Kumar, Application of Grey-Taguchi Technique for Optimization of Overcut and Surface Roughness in Die Sinking Electro-Discharge Machining of EN45 Material, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3741 3745, ISSN: 0973-4562.
- 29. Santosh Shukla, Apurba Kumar Roy and Kaushik Kumar, Design Optimization of a Mixed Flow Impeller Blade Adopting Taguchi Technique, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 3855 3858, ISSN: 0973-4562.

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- 31. Ram Kumar Rudrabatla, Supriyo Roy and Kaushik Kumar, Role of Microfinance for Improving Quality of Life by Providing Financial Services to Low-income Group: A Critical Review, International Journal of Applied Engineering Research, 2015, Vol. 10, No. 55, pp. 4136 4142, ISSN: 0973-4562.
- 32. Rahul Kumar, Kaushik Kumar and SumitBhowmik, Analysis of Mechanical Properties of Wood Dust Reinforced Epoxy Composite Using Response Surface Methodology. Advanced Materials Research 2015, Vol 1119, pp 258-262 doi:10.4028/www.scientific.net/AMR.1119.258
- 33. SantoshShukla, Apurba Kumar Roy and Kaushik Kumar, Material Selection for blades of Mixed Flow Pump Impeller Using ANSYS, Materials Today: Proceedings, 2015 Vol. 2, pp 2022 2029, ISSN: 2214-7853.
- 34. AbhishekTiwary, AmitavaMandal and Kaushik Kumar, Optimization of Overcut in electrochemical machining of EN19 Material Using Taguchi Method, Materials Today: Proceedings, 2015 Vol. 2, pp 2337 2345, ISSN: 2214-7853.
- 35. Sumit Raj and Kaushik Kumar, Optimization and Prediction of Material Removal Rate in Die Sinking Electro Discharge Machining of EN45 Steel Tool, Materials Today: Proceedings, 2015 Vol. 2, pp 2346 2352, ISSN: 2214-7853.
- 36. Anuj Dixit and Kaushik Kumar, Optimization of Mechanical Properties of Silica Gel Reinforced Aluminium Metal Matrix Composite, Materials Today: Proceedings, 2015 Vol. 2, pp. 2359 2366, ISSN: 2214-7853.
- 37. Arnav Prakash, Gautam Sarkhel and Kaushik Kumar, Strength Optimization for Kaolin Reinforced Epoxy Composite Using Taguchi Method, Materials Today: Proceedings, 2015 Vol. 2, pp 2380 2388, ISSN: 2214-7853.
- 38. Abhishek Tiwary, Amitava Mandal and Kaushik Kumar, Multi-Objective Optimization of Electro-Chemical Machining by Non-Dominated Sorting Genetic Algorithm, Materials Today: Proceedings, 2015 Vol. 2, pp 2569 2575, ISSN: 2214-7853.
- 39. Mishra D.P., Samantaray M.K. & Dash S.K., Maximum Air Entrainment into a Mixing Pipe through Optimum Design, Ships and offshore structures, 2014, Vol. 9(6), pp. 605-618, ISSN: 1744-5302.
- 40. Beura S. & Mishra D.P., Effect of Wall Taper and Attack Angle on Mean Flow Structure around a Pyramid, International Journal of Emerging Technologies in Computational and Applied Science, 2014, Vol. 8(6), pp. 490-498, ISSN: 2279-0055.
- 41. Mishra D.P. & Mohapatra K., Effect of fin Configuration on Heat transfer of an Annulus tube, American International Journal of Research in Formal, Applied and Natural Sciences, 2014, Vol. 1(6), pp. 63-69, ISSN: 2328-9785.
- 42. Mishra D.P. & Samantaray M.K., Numerical Investigation of Air Entrainment into a Mixing Pipe Due to High Velocity Jet, International Journal of Applied Engineering Research, 2014, Vol. 9 (26), pp. 8781-8786, ISSN: 0973-4562.
- 43. Sahu S. R. & Mishra D. P., Effect of pipe configurations on air entrainment into a louvered cylindrical pipe: a comparison between open and close entrance of a pipe, International Journal of Engineering Research, 2015 .4.(4), pp: 173-177 ISSN:2319-6890.

- 44. Dhiman S.K., Satya Deo Rama, Jai Prakash, Lal Arvind and Kumar Arbind, Study Of Bulk Modulus Of Compressibility Of Biodiesel and Their Impact On Exhaust Emissions, International Journal of Emerging Technology and Innovative Engineering 1(5), May 2015 (ISSN: 2394 6598).
- 45. Dhiman S.K., Rama Satya Deo, Jai Prakash, Lal Arvind and Kumar Arbind, Optimization of Production and Quality Assessment of Biodiesel from Karanja Vegetable Oil, International Advanced Research Journal in Science, Engineering and Technology, 2(5), May 2015, ISSN (Online) 2393-8021 ISSN (Print) 2394-1588.
- Vedil S.N., Kumar A., Mahto D., Effective Utilization of Flat Plate Collector in Cooling and Heating, International Journal of Applied Engineering Research, Volume 10, Number 4 (2015) pp. 10959-10966
- 47. Nayak L.J., Mahto D., Performance improvement of combined cycle(Dual pressure HRSG) using mechanical refrigeration, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 9, Number 23 (2014) pp. 22539-22550
- 48. Vedil S.N, A. Kumar, Mahto D., Waste heat utilization of vapour compression cycle, International journal of scientific and research publication, Volume 4, Issue 11, November 14
- 49. Nayak L J., Mahto D., Effect of air cooling on simple combined cycle performance, Applied Mechanics and Materials, Vols. 592-594(2014), pp 1487-1492
- 50. Mahto D., Rani P., Mishra S., Sen G., Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive, Industrial Crops and Products ,58(2014) 251-258

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- Udai A. D., Saha S. K., Depth-based Localization for Robotic Peg-in- Tube Assembly, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015), Hamburg, Germany, Sept. 28 – Oct. 2, 2015.
- 2. Udai A. D., Hayat A. A., Saha S. K., Parallel Active/Passive Force Control of Industrial Robots with Joint Compliance, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2014), Chicago, Illinois, Sept. 14–18, 2014.
- 3. Abhishek V., Hayat A. A., Udai A. D., Saha S. K., Experimental Identification of an Industrial Manipulator Dynamic Parameters, The 3rd Joint International Conference on Multibody System Dynamics (IMSD 2014) and The 7th Asian Conference on Multibody Dynamics (ACMD 2014), Busan, Korea, 30th June 3rd July, 2014.
- 4. Das M. K., Kumar K., Barman T. K. & Sahoo P., Modeling and Analysis of Process Parameters on Surface Roughness in EDM of EN 31 Tool Steel by RSM Approach, Proceeding of International Conference on Mechanical Engineering 2013 (Bangladesh), June 2014.
- 5. Sudeepan J., Kumar K., Barman T. K. and Sahoo P., Study of tribological and mechanical properties of compression molded ABS / ZnO composites, Proceeding of International Conference on Mechanical Engineering 2013 (Bangladesh), June 2014.
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- 9. Dixit A. and Kumar K., Study of Mechanical Properties of Silica Gel Reinforced Aluminium Metal Matrix Composite, Proceedings of the International Conference on Advances in Materials and Materials Processing (AMMP '15), pp 186 193, January 2015, Coimbatore.
- 10. Raj S. and Kumar K., Optimization and Prediction of Overcut in Die Sinking Electro Discharge Machining of EN45 Steel Tool, Proceedings of the International Conference on Advances in Materials and Materials Processing (AMMP '15), pp 194 203, January 2015, Coimbatore.

Departmental Students' Activities

SI. No.	Name of the Activity	Students' Co-ordinator, if any	Date/Duration
1	SAE/ Team Firebolt a Racing event	SAE President : Jay Kumar Megotia	July 14 to June 15
	at Indore	Firebolt Captain: UtasavGiri	

Board of Studies(UG/PG)

1.	Head (Mech. Engg.)	-	Chairman (Ex-officio)
2.	Dr. Arbind Kumar (Professor, Mech. Engg.)	-	Member
3.	Prof. A.K. Ray (Professor, Mech. Engg.)	-	Member
4.	Dr. R.P. Sharma (Professor, Mech. Engg.)	-	Member
5.	Dr. A.K. Roy (Associate Professor, Mech. Engg.)	-	Member
6.	Sri O.P. Pandey (Assistant Professor, Mech. Engg.)	-	Member
7.	Dr. B.K.Singh, Professor, Prod. Engg. & Dean (AP)	-	Member

Any two external Experts from the following:

(i) Professor Souvik BhattacharyaDepartment of Mechanical EngineeringI.I.T. KharapurKharagpur, West Bengal

(ii) **Professor A.K. Jha**Department of Mechanical Engineering
B.H.U. Varanasi -10
(U.P.)

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(iii) Professor I. Basak

Head, Deptt. Of Mech. Engg. N.I.T. Durgapur Durgapur West Bengal

(iv) Professor R. Kumar

Department of Mechanical Engineering M.N.N.I.T, Allhabad Allahabad (U.P.)

Departmental Academic Committee

(i) Head of the Department

(ii) Dr. Arbind Kumar (I)

(iii) Dr. Arbind Kumar II

(iv) Prof. A. K. Ray

(v) Dr. R.P.Sharma

(vi) Dr. Apurba Kumar Roy

(vii) Dr. DhaneswarMahto

(vii) Dr. Praveen Mishra

(ix) Dr. R.C. Jha, Professor& HOD, Deptt.of EEE

(x) Dr. Vijay Pandey, Associate Professor, Deptt. Of Prod. Engg.

(v) Mr. Yuvraj Aggarwal

Director Clean Energy Resources Pvt. Ltd. (India) 3B, Duckback House 41, Shakespeare Sarani, Kolkata – 700 017

(vi) Dr. G.P. Sinha

Director

Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue Durgapur – 713 209, West Bengal.

- Chairman (Ex-officio)

- Member

- Member

- Menber

- Member

- Member

- Member

- Member

Member

Member

Other Important Information

- Purchased and installed solid works software in CAD Lab.
- Renovation of faculty rooms and office
- Theory of Machines Lab and Computational Lab were renovated.
- New equipment installed in Hydraulics Labs and Advanced Fluid Mechanics Lab(Impact of Jet apparatus, Hydraulic Ram apparatus, Free and Forced vortex apparatus, Jet pump apparatus, Axial fan test rig, Centrifugal fan test rig)

Department of Pharmaceutical Sciences & Technology



The Department of Pharmaceutical Sciences was established in 1972, recognizing the potential of this emerging field of Technology. The Department has a lively, stimulating and a robust scientific community with highly qualified and competent faculty and a large number of postgraduate students, research fellows and visiting scientists. It is well equipped for both teaching and research activities, which are undertaken across the whole spectrum of Pharmaceutical Sciences. The Department encourages and supports studies involving a range of research strategies and have expertise and experience towards quality and innovative research.

The Department runs both B.Pharm. and M. Pharm in Pharmaceutical Sciences- Specializations offered are Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmacognosy. The courses are recognized by both Pharmacy Council of India and AICTE. The Department also provides facilities for Doctoral Research in various fields of Pharmaceutical Sciences and has state of the art Instrumental Analysis and Molecular Modelling laboratories for this purpose.

The Department is supported by two major projects namely FIST of DST and SAP of UGC.

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Design and synthesis of potent dual inhibitors of Cdk4 and tubulin as anticancer agents	PI: Dr. B. N. Sinha Collaborator: Prof. Bob Chaudhuri, De Montfort University, UK	UGC- UKIERI	6th Mar 2013	30.88 lakhs	2 years
2	Investigation of mechanism of antihyperglycemic properties of some indigenous medicinal plants of Jharkhand on various cellular assays,	Dr. Papiya Mitra Mazumder	AICTE under Research Promotion Scheme	FEB 28 2014)	Rs. 6.47059 lacs	3 years
3	Structure-based design of Dengue virus protease inhibitors	Co-PI: Dr. B. N. Sinha Collaborator: 1. Dr. D. Velmurugan, University of Madras, India 2. Dr. Rolf Hilgenfield, University of Lubeck, Germany	DBT	1st Dec 2010	24.52 Lakhs	3 Years (Extension)
4	Improvement of bioavailability of poorly water soluble drugs by micronization and establishment of Level A In vitro In Vivo correlation.	Dr. Animesh Ghosh	DRDO	2011	9.27lacs	3 years
5	Invitro characterization of microsponge loaded gel for wound healing- evaluation of safety and efficacy	Dr. Animesh Ghosh	UGCMRP	2012	6.42 lacs	3 years
6	Design, Development and Optimization of Self Nanoemulsifying and Solidified Self Nanoemulsifying Drug Delivery Systems of Anti- tubercular Drugs	Dr. Sandeep Kumar Singh, Dr. PRP Verma and Dr. S.M. Verma	(DBT)	2012	14.5 lacs	2 years
7	Antitubercular Drug Loaded Novel Cubosomes/ Hexosomes Based Drug Delivery System Using Response Surface Methodology	Dr. Sandeep Kumar Singh	UGC-BSR	2013	6 lacs	2 years
8	In silico design, synthesis, and evaluation of newer azoles as HIV-1-RT inhibitors	Dr. Swastika Ganguly and Dr. A. Dev	UGC MRP	April 2013	13.839 lacs	3 years

9	Neutraceuticals and cosmaceuticals from Tamarind seeds, Sal Seed Oil and Karanj oil Using Low Cost Technology	Dr. K. Jayaram, Dr. S. Jha and Dr. Anima Pandey	DST TRIFED	2013	12.5 lacs	2 years
10	To determine molecular mechanism associated with Type 2 Diabetes associated cognitive impairment.	Dr Sugato Banerjee	DST-SERB	March 2013	25 lacs	3yrs

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Recent Advances in Biopharmaceutics	Dr. B. N. Sinha and Dr. R. N. Gupta	AICTE QIP	7th Nov to 20th Nov, 2014
2	Automation in Drug Discovery	Dr. B. N. Sinha and Dr. R. N. Gupta	AICTE QIP	21st Nov to 4th Dec, 2014
3	Application of Biotechnology in Modern Pharmacognosy	Dr. B. N. Sinha and Dr. R. N. Gupta	AICTE QIP	5th Dec to 18th Dec, 2014
4	CEP –PCI meeting			4th sept'14

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. S. Ganguly	Application of Biotechnology in Modern Pharmacognosy	AICTE QIP	Dept. Of Pharm. Sciences and Technology, BIT, Mesra	Dept. Of Pharm. Sciences and Technology, BIT, Mesra	5th-18th Dec 2014
2.	Dr. Venkatesan Jayaprakash	Quality Improvement Programme 2014 on "Recent advances in Biopharmaceutics"	AICTE	BIT, Mesra	Dept. Pharm. Sci. Tech, BIT, Mesra	7th November 2014 to 20th November 2014
3.	Dr. Venkatesan Jayaprakash	National conference on emerging and re-emerging viral outbreaks in India- Clinical challenges and management		Osmania University	IICT-CCMB, Hyderabad	20th January 2015 to 22nd January 2015

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4.	Dr. Manik	Quality Improvement Program-2014 on "Recent Advances in Biopharmaceutics"	AICTE	Department of Pharmaceutical Sciences & Technology, Birla Institute of Technology, Mesra, Ranchi	Birla Institute of Technology, Mesra, Ranchi	Nov 7 – 20, 2014 (Two Weeks)
5.	Dr. Manik	One week Transformational Training Program on "Mission KYaaT (Know Yourself as a Teacher)"	Internal Quality Assurance Cell (IQAC)	Internal Quality Assurance Cell (IQAC), Birla Institute of Technology, Mesra, Ranchi	Birla Institute of Technology, Mesra, Ranchi	Nov 24 – 28, 2014 (One Week)
6.	Dr. Manik	TEQIP Phase-II Sponsored One Week Short Term Training Programme (STTP) on "Analysis of Composite Materials"	Department of Chemical Engineering & Technology	Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi	Birla Institute of Technology, Mesra, Ranchi	Jan 19 – 23, 2015 (One Week)
7.	Dr. Manik	Quality Improvement Program-2014 on "Recent Advances in Biopharmaceutics"	AICTE	Department of Pharmaceutical Sciences & Technology, Birla Institute of Technology, Mesra, Ranchi	Birla Institute of Technology, Mesra, Ranchi	Nov 7 – 20, 2014 (Two Weeks)
8.	Neelima Sharma	Quality Improvement programme on "Recent Advances in Biopharmaceutics"	AICTE	BIT, Mesra	Ranchi	07-20 November 2014
9.	Dr. Anima Pandey	Quality Improvement programme on "Recent advances in Biopharmaceutics"	AICTE-QIP	Dept. Of pharm. Sciences and technology,B.I.T. Mesra,Ranchi	Dept. Of Pharm. Sciences and Technology, B.I.T. Mesra, Ranchi	7th to 20 nov. 2014
10	Dr. Kishanta Kumar Pradhan	Quality Improvement Programme	AICTE	Dept. Of Pharm. Sci. & Technology	B.I.T, Mesra	07.11.14 to 20.11.2014
11	Dr. Kishanta Kumar Pradhan	TEQIP PHASE -II Sponsored One Week Short Term Training Programme (STTP) "Analysis of Composite Materials"	TEQIP PHASE-II	Dept. Of Chemical Engg. & Technology	B.I.T, Mesra	19.01.2015 to 23.01.2015

Publications

International Journals

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- 2. Sarkar, B., Kumar, D., Sasmal, D., & Mukhopadhyay, K. (2014). Antioxidant and DNA damage protective properties of anthocyanin-rich extracts from Hibiscus and Ocimum: a comparative study. Natural product research, 28(17), 1393-1398.
- 3. Goyal, M., & Sasmal, D. (2014). CNS depressant and anticonvulsant activities of the alcoholic extract of leaves of Ziziyphus nummularia. Journal of ethnopharmacology, 151(1), 536-542.
- 4. Das B., Samanta S., Chalcone as Potent Molecule: Anti-inflammoatory, Antiarthritic, Antioxidant and Antiulcer: A Review. International Journal of Pharmaceutical Research, 2014, 7, 1-8.
- 5. Prakash S., Maji D., Samanta S., Shina R.K., Design, Synthesis, and Antidiabetic, Cardiomyopathy Studies of Cinnamic Acid-Amino Acid Hybrid Analogs, 2014, 4, 345-350.
- 6. Maji D., Samanta S., A Review on the role of Peroxisome-proliferated Activated Receptor- Agonists and Hybrids in Type 2 Diabetes and Cardiomyopathy, Asian Journal of Pharmaceutical and Clinical Research. 2015, 2, 1-6.
- 7. Das B., Samanta S., Design, Docking studies of Chalcone –peptide hybrid compound as anti-inflammatory and Anti Arthritic Agent. International Journal of Pharmaceutical Research, 2015, 2, 58-64.
- 8. Das B., Samanta S., Molecular Target and Therapeutic aspects of Rheumatiod Arthritis: A Review. Asian Journal of Pharmaceutical and Clinical Research, 2015, 2, 32-40.
- 9. Debnath B. & Ganguly S., Synthesis, Biological Evaluation, in silico docking and virtual ADME studies of novel isatin analogs as promising antimicrobial agents, Antiinfective agents 2015, 13,1-15.
- 10. Sable P. N., Ganguly S. and Chaudhari P. D., An efficient one-pot three-component synthesis and antimicrobial evaluation of tetra substituted thiophene derivatives. Chinese Chemical Letters, 2014, 25, 1099–1103.
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- 14. Sahu J., Ganguly S. and Kaushik A., Synthesis and antimicrobial activity of some novel fused heterocyclic 1,2,4-triazolo [3,4-b][1,3,4] thiadiazine derivatives. Journal of Advanced Pharmaceutical Technology & Research, 2014, 5, 90-95.
- 15. Ganguly S., Singh N. and Upadhyay A., Synthesis, antibacterial activities and binding mode analysis of some novel 1,4 diaryl imidazole thiones . Ind. Jr. Het. Chem., 2014, 23, ,419-423.
- 16. Sable P., Ganguly S., Synthesis of Some Thienopyrimidine Derivatives as Antimicrobial Agents. Ind. Jr. Het. Chem, 2014, 23, 245-246.
- 17. Penta A., Ganguly S. and S. Murugesan, Manzamine alkaloids: isolation, cytotoxicity, antimalarial activity and SAR studies. Drug Discovery Today, 2014,19, 1781-1791.

- 18. Ganguly S. and Debnath B., Molecular Docking Studies and ADME Prediction of Novel Isatin Analogs with Potent Anti-EGFR Activity. Medicinal Chemistry, 2014, 4, 558-568.
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- 21. Yadav G. and Ganguly S., Structure activity relationship (SAR) study of benzimidazole scaffold for different biological activities: a mini-review . Eur. J. Med. Chem, 97 (2015), 419-443.
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- 24. Debnath B. & Ganguly S., Synthesis, characterization, and anthelmintic activity of isatin analogs against pheritima posthuma. Asian J Pharm Clin Res, 2015, 8, 1-6
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- 29. Jadav, S. S., Kumar, A., Ahsan M. J., Jayaprakash, V. Ebola virus: Current and futrue perspectives. Infect. Disord. Drug Targ. 2015, 15 (1), 20-31.
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- 55. Vashisht Deepika, Pandey Anima, Kumar K. Jayaram "Physicochemical and release properties of carboxymethylated starches of Dioscorea from Jharkhand" International Journal of Biological Macromolecules, 2015, 1-26.
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- 18. Soumyajit Das, Ramkumar Dubey, Manik Ghosh, Subhradip Roychowdhury, Kishanta Kumar Pradhan and Barij Nayan Sinha. "Simultaneous quantitation of Ramipril and its active metabolite Ramiprilat in rat plasma LC-MS/MS: application for a pharmacokinetic study." DST Sponsored 5-day International Seminar-cum-Workshop on Recent Advances in Clinical Research with Special Emphasis on BA/BE Study, Organized by Bioequivalence Study Centre, Department of Pharmaceutical Technology, Jadavpur University, Kolkata: Sep 11-15, 2014 (Poster 20)
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- 6. Das, S., Mitra Mazumder, P., Das, S., Das, M. K., Functional Gastrointestinal Disorders' Management from Conventional to Complementary and Alternative Approaches, Indian Journal of Hospital Pharmacy, 2014, 51, 147 151.
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- 2. Pal, R., Mitra Mazumder, P., Shrivastava S., Evaluation of Ethyl Acetate Fraction of Flowers of Pterospermum acerifolium on Wound Healing in Streptozotocin Induced Diabetes, In Proceedings of 46th Annual Conference of the Indian Pharmacological Society IPSCON Guwahati, 28th 30th December 2014, S 79, Indian Journal of Pharmacology, December 2014, VOL. 46, Supplement 1.
- 3. Karmakar P R, Chattopadhyay P, Mazumder P M, Diet-Induced Atherosclerosis on Wistar Albino Rats, In Proceedings of 46th Annual Conference of the Indian Pharmacological Society IPSCON Guwahati, 28th 30th December 2014, S 76. Indian Journal of Pharmacology, December 2014, VOL. 46, Supplement 1
- Sawian, O., Arulmozhi, S., Mitra Mazumder, P., Mahadik, K.R., Anti-Diabetic and Anti-Hyperlipidemic Activity of Leaves of Alstonia scholaris Linn. R.B.r., in Streptozotocin Nicotinamide Induced Diabetes Mellitus. In Proceedings of 46th Annual Conference of the Indian Pharmacological Society IPSCON – Guwahati, 28th – 30th December 2014, S 81. Indian Journal of Pharmacology, December 2014, VOL. 46, Supplement 1.
- 5. Subhankar Pradhan, Mavuduru Siva Ganesh, Padma Charan Behera, Manik Ghosh. "Docking studies of anticancer agents on estrogen receptor from Tabernamontana divaricate", 66th Indian Pharmaceutical Congress, Hyderabad: Jan 23-25, 2015 (C-6)
- 6. Padma Charan Behera, Sanjeeb Kumar Patro, Bama Prasad Bag and Manik Ghosh. "Isolation, structure elucidation and pharmacological activity of hydrogenated napthol from Aerva lanata Linn. flower", 66th Indian Pharmaceutical Congress, Hyderabad: Jan 23-25, 2015 (C-44)
- 7. Ramkumar Dubey, Manik Ghosh, Soumyajit Das. "High-throughput LC-MS/MS method for determination of hydrochlorothiazide in rat plasma: Application to a pharmacokinetic study", 66th Indian Pharmaceutical Congress, Hyderabad: Jan 23-25, 2015 (E-24)
- 8. Soumyajit Das, Ramkumar Dubey, Manik Ghosh. "LC-MS/MS method for the estimation of nimorazole in rat plasma and its application to a pharmacokinetic study", 66th Indian Pharmaceutical Congress, Hyderabad: Jan 23-25, 2015 (E-25)
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Book

- 1. Kamal Kant, Vijai Kant Agnihotri, Manik Ghosh, Antioxidant Guided Chemical Investigations of Picrorhiza kurroa. LAP LAMBERT Academic Publishing ISBN-10: 3659706256, ISBN-13: 978-3659706257
- 2. Pradhan K. K, Rao R. K and Srinivasulu P, Analytical Method Development and Stability Studies of Carvedilol (Reference Book), Grin, 2015, pp. 01-78 (ISBN No. 978-3-656-94889-6).

3. Sneha Singh, Ambarish Sharan Vidyarthi & Abhimanyu Dev, Bio-nanoparticles. In Singh, O. V. (Eds.) Microbial Synthesis of Nanoparticles: An Overview, New York: Wiley-Blackwell, April 2015, pp. 155-186.

Chapter(s) in Edited Book

 Mitra Mazumder P., Fundamentals of Drug Screening and Assay of Drugs, In edited Veterinary Pharmacology and Toxicology, (Ed Roy, B. K.) Kalyani Publishers, New Delhi, page no. 2015, pp703 – 721.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. (Mrs.) Papiya Mitra Mazumder	UGC Research Award	University Grants Commission	2014 - 2016

Patents (Applied / Granted)

SI. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year
1.	Sinha, B. N., Timiri, A. K., Jayaprakash, V.	4-(1,3-dioxoisoindolin-2-yl)- benzenesulfonamide derivativesm their synthesis, antiviral activity and methods thereof.	191/KOL/2014	2014
2.	Sinha, B. N., Timiri, A. K., Jayaprakash, V. 2-(4,6-diaminopyrimidinmethods thereof.		325/KOL/2014	2014
3.	. Rohit Singh and Novel imidazoles as antimicrobials Swastika Ganguly		1351/KOL/2014	2014
4.	Jinu Issac, Animesh Ghish and Swastika Ganguly	Delivery of telmisartan, Preparation thereof	830/KOL/2014	2014

Departmental Students' Activities

Sl. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
1.	National Elocution Competition 2014 state round	Conducted by Indian Pharmaceutical Association, Coordinator- R.N. Gupta	18 th Nov'2014 in Dept.
2.	Cricket IPA Cup	Mr Rinku Tiwari and Mahesh Yadav	Mar- Apr'15
3.	Seminar for all UG, PG & RS	Prof C.K.Kokate	During qip Nov'2014

Board of Studies (UG/PG)

Internal Members

Sl. No.	Name	
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Dr. Ashoke Sharon (Dept. of Chemistry)	Asso. Professor (Internal)
3	Dr. G. Sarkhel (Dept. Of Chemical Engg. & Technology)	Professor (Internal)
4	Dr. D. Sasmal	Professor (Internal)
5	Dr. P.R.P. Verma	Professor (Internal)
6	Dr. B.N. Sinha	Professor and Head (Internal)
7	Dr. S. Samanta	Professor (Internal)
8	Dr. (Ms.) S. Ganguly	Professor (Internal)
9	Dr. Venkatesan J.	Assistant Professor (Internal)

External Members

Sl. No.	Name of Member, Designation, Institute/Company, Full Address	
1	Prof. (Dr.) B. Mishra, Professor & Head	IIT, BHU
2	Prof. (Dr.) D. Pathak, Professor & Director	DIPSAR, New Delhi
3	Dr. Tausif Monif, Sr. Vice President	Ranbaxy Research Lab, Gurgaon
4	Dr. Ajay Handa, Vice President	Zydus Cadila
5	Dr. Arindam Mukhopadhyay, Dean	LCRA, Bangalore

Departmental Academic Committee

Sl. No.	Name of Member	Designation (DAC/AC)
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Dr. D. Sasmal	Professor
3	Dr. P.R.P. Verma	Professor
4	Dr. B.N. Sinha	Professor
5	Dr. S. Samanta	Professor
6	Dr. S.Jha	Professor
7	Dr. R.N. Gupta	Professor
8	Dr. Venkatesan J.	Assistant Professor
9	Dr. Manik	Assistant Professor
10	Dr. Abhimanyu Dev	Assistant Professor
11	Dr. (Mrs.) Trishna Bal	Assistant Professor
12	Dr. (Mrs.) Anima Pandey	Assistant Professor
13	Dr. (Mrs.) Usha Jha	Professor
14	Dr. Kunal Mukhopadhyay	Professor & Head, Dept. of Bioengg.
15	Guide(s) of the Candidate	

Other important information

- a. Dr. B.N. Sinha, Professor & Head, visited De Montfort University, Leicester, UK in the last week of June'2015 to attend the review meeting for his UGC-UKIERI project.
- b. Dr .B.N. Sinha has been nominated as President, APTI Jharkhand State Branch.
- c. Dr. R. N. Gupta attended and presented paper in '17th International Drug Delivery Symposium: Diverse Therapeutic Approaches to Address Disease Heterogeneity held at Salt Lake City, UTAH, State USA, from 14th to 17th June'2015 organized by College of Pharmacy, University of UTAH.
- d. Dr. R. N. Gupta visited College of Pharmacy, University of UTAH on 19th June '2015
- e. Dr. R. N. Gupta visited Roosevelt University, Chicago and presented paper and interacted with faculties of Department.
- f. Dr. R. N. Gupta was appointed Reviewer of Science Direct for Journal'Colloids and Surfaces B: Biointerfaces'
- g. Dr. R. N. Gupta was appointed as Chairman in Scientific Session 'National workshop on "Redefining Role of Pharmacists in Healthcare System" at Kolkata on 16th November 2014, Organised by IPA Bengal Branch.
- h. Dr. Swastika Ganguly and Dr. K. Jayaram were nominated the Vice Presidents of APTI-Jharkhand Branch.

Department of Physics



The Department of Physics, since its inception in 1955, has played a pivotal role in the Institute. A gamut of very motivated, well qualified and talented faculty is actively engaged in teaching as well as research in areas of theoretical and experimental physics and technology. They have, to their credit, numerous research publications and several R&D projects. Some faculty members have been awarded international fellowships from Universities abroad and some have received BOYSCAST fellowship awarded by DST, Government of India.

The Department currently offers the following programmes:

5-Year Integrated M.Sc. in Physics

M. Sc. in Physics (2-years, 4- semesters)

M. Tech. in Nano Science & Technology

Ph. D. Programmes in various discipline of Physics

The prime objectives of the offered programmes are as follows:

Impart high quality education in a vibrant academic ambience.

Prepare students to take up challenges as researchers in academic and R & D organizations.

To train students for participation in multidimensional academic activities.

To impart scientific knowledge and inculcate human values.

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The Department has well equipped laboratories having several systems viz., RF magnetron sputtering, Plasma Enhanced Chemical Vapour Deposition (PECVD), thermal CVD, RF/DC magnetron co-sputtering, plasma nitriding, anodic vacuum arc deposition, plasma arc generator, polishing setup, Raman spectrometer, nanoindenter, solar simulator, D33 meter, PE loop-tracer, UV Visible Spectrometer, 10K cryostat etc.

At present the Department has 12 faculty members and 18 research scholars. Besides two Indo-Russian projects, the Department has been pursuing several sponsored projects funded by the UGC, DST, BRNS and NRB. In addition, the Department has also completed an Indo-German project under Indo-German Bilateral Cooperation in Science and Technology (DST–BMBF) and an Indo-Israel project. The Department has received "Fund for Improvement in Science & Technology Infrastructure (FIST)" from DST, New Delhi, as well as Special Assistance Programme (SAP) from UGC.

The current broad areas of research in the Department include nanotechnology, condensed matter physics, quantum optics and nonlinear optics. Specific sub-areas are plasma processing of materials, surface engineering with plasma coating, surface modification, anodic vacuum arc deposition of thin films, carbon nanotubes, diamond-like carbon (DLC) films, nano and ultrananocrystalline diamond films, carbon nanotubes, solar cells, nanocrystalline superhard coatings, high temperature superconductivity, colossal magnetoresistive materials, dilute magnetic semiconductors, piezoelectric materials, electronic composite materials, magnetic composites, soliton and light propagation, optical communication, photonic crystal fibres, optoelectronics, etc.

During last one year, the Department has completed three projects, and received 3 new projects while 10 projects are ongoing. During last one year the Department has published 24 research papers in international journals and presented more than 20 research papers in different conferences and workshops.

Sponsored Projects

Project Sanctioned

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Diagnosis of Plasmas in ECR ion source	PI: Dr. S K Mahapatra Co-PI: Dr. I. Banerjee	DST	03/03/15	50 lakh	2015-2018
2.	Development of Mesoscopic Solid State Solar Cells	PI: Dr. S K Mahapatra Co-PI: Dr. I. Banerjee	BRNS	24/06/15	28.59 lakh	2015-2018
3	Development and characterization ofdoped TiO2 as transparent conducting oxidesusing high power impulse magnetron sputtering (HiPIMS)	Dr Sanat Mukherjee	UGC- DAE CSR	18 Sep 2014	7.398 lakh	3 years

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Special Assistance Programme-UGC (SAP- UGC)	Dr. S. Konar & Dr S.Keshri	UGC	Sept. 2011	57.00 lakh	5 years
2.	Development of High Piezoelectric Bismuth Layered Perovskites Materials for Transducer Applications	S.K.Rout	NRB, New Delhi	06-09 -14	15.90 lakh	2 years
3.	Studies on microwave dielectric ceramics and their device applications.	Dr S Keshri	DST, India	11-06-13	~31 lakh	3 years
4.	Study of Physico- Technological Principles of Preparation of New Magnetic nanostructures for Multifunctional Biomedical Applications	Dr S Keshri	DST- RFBR	1-02-14	9.00 lakh	31-01-16
5.	Investigation on Photoluminescence and microwave dielectric properties of some tungstates and molybdates prepared by microwave assisted solid state reaction route	S.K.Rout (PI)	DST, India	06-05-13	24.00 lakh	3 years
6.	Transferred Arc Plasma Modeling and Synthesis of Iron Oxide Nanoparticles for Biomedical Applications	PI: Dr. I. Banerjee Co-PI: Dr. S K Mahapatra Collaborator: Dr. A.Tak	BRNS	21/12/14	23.12 Lakh	2015-2018
7.	In-situ spectroscopic investigation of the growth mechanism of nitinol shape memory alloy (SMA) thin films and its correlation with mechanical, tribological, chemical and biological reliability of the films	PI: Dr. I. Banerjee	DST	30/4/14	22.1 lakh	2014-2017
8.	Effect of rare earth element on structural, dielectric and optical properties of BaZrO3	PI: Dr Ela Sinha	DST	8/08/2013	20.08 lakh	3 years
9.	Development of atmospheric pressure plasma jet sources and their characterization	PI Dr Rishi Sharma	BRNS	16/03/11	24.385 lakh	4.5 years
10	Diagnosis of Plasmas in ECR ion source	PI: Dr. S K Mahapatra Co-PI: Dr. I. Banerjee	DST	03/03/15	50 lakh	2015-2018

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Simulation of highly nonlinear photonic crystal fibers and study of nonlinear optical phenomena in these fibers.	Dr. S. Konar	DST	Sept. 2011	12.87 lakh	September, 2015
2.	Design and investigation of photonic crystal fibers with emphasis to the development of optical nonlinearity based devices	Dr. S. Konar	UGC	23 July 2012	10.43 lakh	June 2015
3.	Self similar modes of femto-second laser pulse and beam propagation in media with two or multi-photon absorption and non-linear refraction	Dr. S. Konar	DST - RFBR	Aug 2013	14.30 lakh	September 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	S Keshri	SecondInternational Conference on Nanostructured Materials and Nanocomposites	TEQIP-II	Mahatma Gandhi University , Kottayam	Kottayam, India	19-21 Dec. 2014
3	S K Rout	Nanoenergy 2015	DST-New Delhi	Manchester University	Manchester Univ., U K	01 June -3 June 2015
4	Dr. I. Banerjee	Graphene & 2-D Materials Conference: From Research to Applications	NPL, UK	National Physical Laboratory, London	National Physical Laboratory, London	12/11/14- 13/11/14
5	Dr. I. Banerjee	NSNCP-2015	DST	IASST, Guwahati	IASST, Guwahati	26-28 March 2015
6	Dr. Ela Sinha	Analysis of composite materials		Dept. Of Chemical Engg.& Tech, BIT Mesra	Dept. Of Chemical Engg.& Tech, BIT Mesra	19th – 23rd Jan 2015

Publications

International Journals

- 1. Nitu Borgohain, Milivoj Belic and S.Konar; Giant parabolic nonlinearities at infrared in lambda type three level multiple quantum wells, Annals of Physics 361, 107-119(2015)
- 2. Noushin Asif, Anjan Biswas, Z. Jovanoski and S.Konar; Interaction of Spatially Separated Oscillating Solitons in Biased Two-Photon Photorefractive Materials; Journal of Modern Optics 62, 1–10 (2015).
- 3. Mohit Sharma, SwapanKonar, Kaisar R. Khan; Supercontinuum generation in highly nonlinear hexagonal photonic crystal fiber at very low power, Journal of Nanophotonics 9, 093073-8 (2015)
- 4. S. Konar and NituBorgohain, Self-phase modulation dominated supercontinuum generation employing cosh-Gaussian pulses in photonic crystal fibers; Journal of Nanophotonics 9, 093098-1 (2015)
- 5. Sabyasachi Parida, A. satapathy, E. Sinha, Anurag Bisen, and S.K. Rout, Effect of Neodymium on Optical Bandgap and Microwave Dielectric Properties of Barium Zirconate Ceramic, Metallurgical and Materials Transactions A, 46A, (2015) 1277-1286.
- 6. S. K. Ghosh, M. Ganguly, S. K. Rout, T. P. Sinha, Order-disorder correlation on local structure and photo-electrical properties of La3+ ion modified BZT ceramics, Eur. Phys. J. Plus 130 (2015) 68 (18p).
- 7. Gopi Kishan Sabavath, Pankaj Kumar Shaw, A. N. Sekarlyengar, I Banerjee, and S Mahapatra Experimental investigation of quasi periodic-chaotic-quasi periodic-chaotic transition in a DC magnetron sputtering plasma, Physics of Plasmas (2015) 22 (8), 082121
- 8. Tianyi Li, Trupti Patel, Indrani Banerjee, Ruth Pearce-Hill, John Gallop, Ling Hao, Asim K. Ray, Plasma treated graphene oxide films: structural and electrical studies, J Mater Sci: Mater Electron (2015) 26:4810–4815
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- 10. S. Mahanti, Rishi Sharma, Ashwini Kr. Singh, Neelima Sharma, S. K. Pradhan, and P. K. Barhai, Correlation of Mechanical Properties with Surface Morphology of Diamond-Like Carbon Films Deposited By Plasma Enhanced Chemical Vapour Deposition Technique, International Journal of Innovative Research in Science, Engineering and Technology, 3(8) (2014), 15510-15517
- 11. Vijay Chatterjee, Rishi Sharma and P. K. Barhai, Effect Of Process Parameters On The Properties of Ultrananocrystalline Diamond Films Deposited Using Microwave Plasma Enhanced Chemical Vapor Deposition, Adv. Mat.Lett. 2014, 5(4), 172-179
- 12. S. K. Mukherjee, H.W. Becker, A.P. Cadiz Bedini, A. Nebatti, C. Notthoff, D. Rogalla, S. Schipporeit, A. Soleimani-Esfahani, D. Mergel, Structural and electrical properties of Nb-doped TiO2 films sputtered with plasma emission control, Thin Solid Films, 568, 94-101 (2014).
- 13. Anurag Gandhi and SunitaKeshri, Microwave Dielectric Properties of Double Perovskite Ceramics Journal of Alloys and Compounds (Elsevier Publication) 41, April 2015, Pages 3693–3700.
- 14. Ashutosh Kumar and Sunita Keshri Occurrence of low resistive p-type conductivity in ZnO film implanted by low energy N5+ ions, Nuclear Instruments and Methods in Physics Research Section B (Taylor & Francis Publication), Vol. 169, 965–979 (2014).

- 15. Shailendra Singh Rajput and SunitaKeshri Structural and microwave properties of (Mg,Zn/Co)TiO3 dielectric ceramics, Journal of Materials Engineering and Performance
 - (Springer-Verlag publication) 23 (2014) 2103–2109.
- Sunita Keshri, Vivekanand Kumar, Piotr Wiśniewski and Alexander S. Kamzin Synthesis and characterization of LSMO manganite based biocomposite, Phase Transitions (Taylor& Francis Publication) 87 (2014) 468-476.
- 23. M.V. Tkachenko, L.P. Ol'khovik, A.S. Kamzin, S. Keshri, Bioceramics of calcium phosphate and a hexagonal M type ferrite Multifunctional medical applications: Technical Physics Letters 40 (2014) 9-15

Award / Recognition Bestowed on Faculties (State / National / International)

Sl. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. I. Banerjee	Commonwealth Academic Fellow	Commonwealth, British Council, UK	8/9/2014 – 7/12/2014

Board of Studies (UG/PG)

Internal Member

HOD, Ex-Officio	Chairman
Dr S Konar	Member
Dr S Keshri	Member
Dr S K Sinha	Member
Dr S K Rout	Member
Dr Nishi Srivastava	Member
Dr Usha Jha	Member
Dr S K Ghorai	Member

External Member

- i) Dr Anil Kumar Nirala, Professor, Department of Physics, Indian School of Mines, Dhanbad
- ii) Dr. B. S. Murty, Professor, Dept. of Materials and Materials Engineering, IIT, Madras, Chennai-600036, India,
- iii) Dr. V. Subramanian, Professor, Dept. of Physics, IIT Madras, Chennai-600036.
- iv) Dr. P K Datta, Professor, Department of Physics, Indian Institute of Technology, Kharagpur 721 302, India.
- v) Dr. Prasanta K. Panigrahi, Professor, Department of Physical Sciences, Indian Institute of Science Education Research Kolkata, Mohanpur 741 246, West Bengal, India.
- vi) Dr. (Mrs.) S. K. Mishra, Scientist EII, MST Division, National Metallurgical Laboratory Jamshedpur, India-831007

Departmental Academic Committee

Dr S Konar

Dr (Mrs) S Keshri

Dr S K Sinha

Dr S K Rout

Dr (Mrs) I Banerjee

Dr Kingshuk Bose

Dr Nishi Srivastava

Dr S K Ghorai

Dr (Mrs) UshaJha

Department of Production Engineering





Since its inception in 1964, The Department of Production Engineering has been imparting quality education to under graduate and post graduate students by training them to meet the demands of the manufacturing industry. The Department has established links with the industry, R&D organizations, consultancy organizations and academic Institutes of the nearby area in furtherance of the cause of manufacturing engineering. The Department sees itself as the pathfinder of emerging technologies and techniques in the area of production engineering, develops students to be technologically and managerially sound to meet the challenges of the rapidly changing manufacturing scenario.

The major long term goal of the Department is to develop itself as a centre of excellence in teaching, consultancy and research in various aspects of Production Engineering. An increasing number of Institute-industry collaborations are shaping through sandwich training programmes, short term courses, workshops, and live projects for UG, PG and Doctoral Level. In this respect, the Department has been able to establish well-equipped laboratories, upgrade the syllabi on regular basis and carried out its teaching and academic programme through its qualified and experienced faculty and visiting professors. Both our graduates and post-graduates have been doing well in industry and other Universities of higher learning in India and abroad.

Progeamme Offered:

B.E. (Production Engineering)

M.E. (Automated Manufacturing System)

Ph.D.

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Microwave assisted welding	Dr. Vinay Sharma B. K. Singh Arpita Roychoudhary	UGC	01.04.2013	5.55	3 Years

Seminar / Conferences / Short – Term Courses Conducted By The Department

SI. No.	Title of Seminar / Conferences / Short - term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short - term Courses
1.	One week ISTE-SRM STTP on Six Sigma Tools and Applications	Dr. Vinay Sharma Dr. Vijay Pandey	ISTE	August, 25-30, 2014
2.	One week STTP on Lean Six Sigma Tools and Applications	Dr. Vijay Pandey Dr. Somak Datta	TEQIP-II	May, 25-29, 2015
3	Internal Quality Enhancement Programme through Micro teaching in the area of Production Engineering	Dr. J Ghose Binay Kumar	Department of Production Engg.	07th July - 11th July, 2014

Conferences/ Seminars/ Workshops/ Staff Development Programmes/ Orientation Programme/ Refresher Course Etc. Attended:

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Organized by	Venue	Date , Month, Year
1.	Joyjeet Ghose	TEQIP Phase -II Sponsored One Week Short Term Training Programme (STTP) on LEAN SIX SIGMA TOOLS AND APPLICATIONS	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	25th – 29th May, 2015
2.	Joyjeet Ghose	TEQIP Phase -II Sponsored One Week Short Term Training Programme (STTP) on ANALYSIS OF COMPOSITE MATERIALS	Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi	Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi	19th – 23rd JANUARY, 2015
3.	Joyjeet Ghose	ISTE-SRM Short Term Training Programme on 'Six sigma Tools and applications'	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	25-30 August 2014

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4.	Binay Kumar	TEQIP Phase -II Sponsored One Week Short Term Training Programme (STTP) on ANALYSIS OF COMPOSITE MATERIALS	Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi	, Department of Chemical Engineering & Technology, Birla Institute of Technology, Mesra, Ranchi	19th – 23rd JANUARY, 2015
5.	Binay Kumar	ISTE-SRM Short Term Training Programme on 'Six sigma Tools and applications'	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	25-30 August 2014
6.	Dr. Rajeev Agrawal	Two week "Supply Chain- Network-Modeling And Analysis" Organised by Department of Industrial Engineering and Management,	Indian Institute of Technology Kharagpur,	Indian Institute of Technology Kharagpur	15th June,2015- 26th June,2015
7.	Dr. Rajeev Agrawal	Supply Chain Management	Indian Institute of Technology Kanpur	Industrial and Management Engineering (IME) Department, Indian Institute of Technology Kanpur	4th-8th February 2015.
8.	Dr. Rajeev Agrawal	National Seminar on "Robotics: Applications and Challenges", and presented paper titled "A Simplified Approach To Control Robotic Arm Using Training Robot",	ICFAI University Jharkhand	Faculty of Science and Technology, ICFAI University Jharkhand	15th sept,2014
9.	Dr. S Datta	One week STTP on Lean Six Sigma Tools and Applications	Production Engineering Department, BIT Mesra	BIT Mesra, Ranchi	May, 25-29, 2015
10.	S.C.Srivastava	One week STTP on Lean Six Sigma Tools and Applications	Department of Production Engg. B.I.T. Mesra, Ranchi	BIT Mesra, Ranchi	May, 25-29, 2015
11.	Dr. Vijay Pandey	ISTE-SRM Short Term Training Programme on 'Six sigma Tools and applications'	Department Of Production Engineering, Birla Institute of Technology, Mesra, Ranchi.	BIT Mesra, Ranchi	25-30 August 2014
12.	Dr. Vijay Pandey	STC on Industrial Automation and Mechatronics	Department of Mechanical Engineering, I.I.T., Delhi	Department of Mechanical Engineering, I.I.T., Delhi	8-12, December, 2014
13.	Dr. Vijay Pandey	One week STTP on Lean Six Sigma Tools and Applications	Production Engineering Department, BIT Mesra	BIT Mesra, Ranchi	May, 25-29, 2015

Publications

International Journals

- Arpita Roychoudhury, Vinay Sharma "Microwave Welding: A Comparative Analysis with Contemporary Methods of Welding Thermoplastic Based on Prioritization Matrix", (October-2014) International Journal of Scientific & Engineering Research, Volume 5, Issue 10, pp 1199-1206
- 2. Rajeshwari Chatterjee, Vinay Sharma, Samrat Mukherjee, and Surender Kumar, "Life Cycle Assessment of Bio-diesel Production—A Comparative Analysis" (April 2014) Springer Journal of Institutions of Engineers (India), Section C, Volume 95, Issue 2, pp 143-149, Print ISSN- 2250-0545
- 3. Rajeshwari Chatterjee, Vinay Sharma, Samrat Mukherjee, and Surender Kumar, "Value stream mapping based on energy and cost system for biodiesel production", Int. J. Sustainable Manufacturing, Inderscience Publisher (2014) Vol. 3, No. 2, pp95 115
- 4. Rajeshwari Chatterjee, Vinay Sharma, Samrat Mukherjee, and Surender Kumar, "Quantitative assessment of biodiesel production: A model-based scenarios of sustainable development" Journal of Renewable and Sustainable Energy 6, 013129 (2014), American Institute of Physics
- 5. Sujeet Kumar Mishra, Vinay Sharma, and Ashok Misra "Effect of rate of deformation on electromagnetic radiation during quasi-static compression of sintered aluminium preforms", (March 2014), International Journal of Materials Research: Vol. 105, No. 3, pp. 265-271.
- Arpita Roychoudhury, B.K.Singh, Vinay Sharma, "Microwave Assisted Welding: A New Tool for Welding of Plastics" Kaav International Journal of Science, Engineering & Technology, (2014), Vol-1, Issue-1, pp35-45 (ISSN:2348-5477)
- 7. Haidar Shamim, Ghose, J and Sutradhar G., 2015, Synthesis and Compressive Characterization of Aluminium-SiCp Composite Foam by Stir casting Technique Using Dual Foaming Agent, International Journal of Advanced Information Science and Technology (IJAIST), ISSN:2319:2682, Vol.36, No.36, pp 1-6, April 2015
- 8. L. N. Pattanaik and Gaurav Yadav, (2015), "Decision Support model for Automated Railway Level Crossing System using Fuzzy Logic Control", Procedia Computer Science (Elsevier), Vol 48, pp.73-76. (ISSN 1877-0509).
- Rajeev Kant, L. N. Pattanaik and V. Pandey (2015), "Heuristic for enabling lean characteristics in cellular manufacturing using reconfigurable machines" ELK Asia Pacific Journals Special Issue ISBN 978-81-930411-4-7.
- L. N. Pattanaik and Himanshu Agarwal (2015), "Magnetorheological Finishing (MRF) of a Freeform Non-magnetic Work Material", Journal for Manufacturing Science and Production, Vol 15 (ISSN 2191-0375) De Gruyter.
- 11. Rajeev Kant, L. N. Pattanaik and V. Pandey (2015), "Framework for strategic implementation of cellular manufacturing in lean production environment", Journal of Manufacturing Technology Research, Vol 6, No. 3-4 (ISSN: 1943-8095) Scopus Indexed.
- 12. Singh. A. K, Jha. S. K, and Prakash. A, "Adoption of Green Manufacturing (GM) in Selected Indian Industries", International Journal of Applied Engineering Research, PP. 20383-20404, Volume 9, No. 23, December 2014. (ISSN: 0973-4562; Publisher: Research India Publications; Scopus; Impact Factor: 0.127).

- 13. Prasad. K. D, Jha. S. K and Prakash. A, "Quality, Productivity and Business Performance in Home Based Brassware Manufacturing Units", International Journal of Productivity and Performance Management, Vol. 64, issue: 2, Feb 2015. (http://dx.doi.org/10.1108/IJPPM-02-2014-0029; ISSN: 1741-0401; Publisher: Emerald).
- 14. Om Prakash and Vijay Pandey, "Reducing the Bullwhip Effect in a Supply Chain Using Artificial Intelligence Technique, International Journal of Production Research and Management, Volume 4, Issue 2, April, 2014, Pages 31-42, ISSN: 2249 4766. 1. N. Muralidaran, S.C.Srivastava, N.L.Sarda, "Ever changing Business and Technology Landscape: Transformation Alternatives" published in the journal International Journal of Advances in Computational Engineering and Networking (IJACEN).
- 15. N. Muralidaran, S.C.Srivastava, N.L.Sarda, "Choice of Design Techniques for Scaling Mission Critical High Volume Applications" presented in the proceedings of BUSTECH-2015", March 22-27, 2015, NICE, France by 'International Academy, Research, and Industry Association' (IARIA) Included in the IARIA digital library, www.thinkmind.org.(Scopus Index Journal).
- 16. N. Muralidaran, S.C.Srivastava, N.L.Sarda, "LFDS: Scalable and High Performance Logging for Mission critical Real Time Applications", IJSEIA, June 2015. Australia (Scopus Index Journal).
- 17. N. Muralidaran, S.C.Srivastava, N.L.Sarda, "Lean and efficient Business Tier for Performance Scaling", International Journal of Computer Applications (0975 8887), DL, Volume 118 No. 7, May 2015, New York, USA.
- N. Muralidaran, S.C.Srivastava, N.L.Sarda, "Implementation insight for High Performance Messaging Solution", International Journal of Computer Sciences and Engineering, IJCSE, Volume-3, Issue-5, May 2015.
- 19. Binay Kumar, S. C Srivastava, Surender Kumar, (2014) "An adaptive factory scheduling controller using a hybrid AI based methodology" An international journal, Manufacturing technology and research, Jan-July, 2014, Vol-10 No. -1 Page 1-6 ISSN N0-0973-0281.
- 20. Nitesh Kumar, Binay Kumar, Lokesh C. Pathak (2015) "Preparation of and Mechanical properties of Sintered ZRB2- Graphite Composites by Spark Plasma Sintering (SPS) Method." ELK Asia Pacific journals-Special Issue, ISBN: 978-81-930411-4-7
- 21. R. K Singh, "A Hybrid Simulated Annealing Based Approach to Resolve TOC Product Mix Decision Problem", International Advanced Research Journal in Science, Engineering and Technology, 2015, Vol. 2, Issue 4, pp 7-10.
- 22. Kapil Deo Prasad, Sanjay Kumar Jha, Ritesh Kumar Singh, "Understanding quality in home based brassware manufacturing units in India", ELK Asia Pacific Journals Special Issue, 2015, pp 347-360, ISBN: 978-81-930411-4-7.
- 23. S. K. Tiwari, R. K. Singh, S. C. Srivastava, "Assessing the Success of Six Sigma: An Empirical Study", Asian Journal of Engineering and Applied Technology, 2015, Vol. 4, No. 1, pp 12-23.
- S. C. Srivastava, R. K. Singh, "Establishment of AGVs fleet size in FMS Using Petri-Net", International Journal of Science, Engineering and Technology Research (IJSETR), 2014, Vol. 4, No. 4, ISSN: 1092-1097.

International Proceedings

- Arpita Roychoudhury, Vinay Sharma, B. K. Singh, "Microwave Assisted Welding: A New Tool for Welding Of Thermoplastics", International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends Department of Mechanical Engineering, MANIT, Bhopal November 27-29, 2014
- 2. MD. Obeidullah Ansari, Joyjeet Ghose, Rajshree Samantray, Automatic Mould width Adjustments System of Slab Caster during Casting. 2015. International Conference on Computing, Communication, Electrical, Electronics, Devices and Signal Processing (CCEEDS) and International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (EEECOS/E3COS) organized by Sri Sunflower College Of Engineering and Technology, Lankapalli (Challapalli)-521126, Krishna Dist., A.P., INDIA . 28th 30th March. 2015. Pp 590-593.
- 3. Rajeev Kant, L. N. Pattanaik and V. Pandey (2015), "Heuristic for enabling lean characteristics in cellular manufacturing using reconfigurable machines", International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2015), April 10-11, 2015.
- 4. L. N. Pattanaik and Gaurav Yadav, (2015), "Train Detection at Railway Level Crossing Using Background Subtraction Approach of Image Processing", International Conference on Signal processing, Control & Data Analytics (ICSCD-2015) Online, March 2015, San Diego, USA. (Best Paper Award)
- 5. L. N. Pattanaik and Gaurav Yadav, (2014), "Decision Support model for Automated Railway Level Crossing System using Fuzzy Logic Control", International Conference on Intelligent Computing, Communication & Convergence (ICCC-Dec. 2014), Bhubaneswar, India.
- Rajeev Agrawal, Abhinav Goyal, Debjani Sambasivam, Arya K Bhattacharya, "Parallelization of Industrial Process Control Program based on the Technique of Differential Evolution using Multi-threading", International Conference on Industrial Engineering and Engineering Management, 2014, organized by IEEE, ISBN-978-1-4799-6410-9
- 7. Akshaye Malhotra, Vijay Pandey, S.K.Sahana, Somak Datta, "Ant colony optimization for scheduling of PCBs using single machine" Proc. Of the Int. Conf: ARIMPIE-2015, ELK Asia Pacific Journals Special Issue, pp 441-447.
- 8. S.K. Tiwari, R.K. Singh, S.C. Srivastava, "Optimization of green sand casting process parameters for enhancing quality of mild steel castings" Int. J. of Productivity and Quality Management Inder Science Publishers, Online July 2014

National Proceedings

- 1. Rajshree Samantray, MD. Obeidullah Ansari, Joyjeet Ghose, Vijay Pandey, 2015 ATIG Welding of Austenitic Stainless Steel-A Review. National Welding Seminar, 22-24 Jan 2015, Jamshedpur, organised by Indian Institute of Welding.
- 2. Rajeev Agrawal, Abhinav Goyal, Mohammad Rumman, Shubham Mehra, "Supply Chain Optimization using Linear Programming Model and GIS to Reduce the Overall Freight Cost" International Conference on Industrial, Mechanical and Production Engineering: Advancement and Current Trends (IC IMPACT), November 27-29th, 2014. Maulana Azad National Institute of Technology, Bhopal 462051, India ,Page:574-580,ISBN:978-93-84935-03-0.

3. N. Muralidaran, S.C.Srivastava, N.L.Sarda, "Ever changing Business and Technology Landscape: Transformation Alternatives" presented in the proceedings of 'ICEECMPE', November 8th 2014, New Delhi.

BOOKS

- 1. L. N. Pattanaik, (2015), "Cellular Manufacturing using Reconfigurable Machines", LAP-Lambert Academic Publishing, Germany.
- 2. S.C. Srivastava, Umesh Chandra and S.Kumar, "A Textbook of Metrology & Measurement", Published by Axiom Books, Agra, ISBN:978-93-83229-91-8, July- Dec. 2014.

Book chapters

1. Accepted for publication, Book chapter's entitled "Optimizing the Warehouse Location, Using Differential Evolution, in order to Reduce the Overall Freight Cost". For the Book "Supply Chain Management: Applications for Manufacturing and Service Industry", Nova Publisher, USA

Award / Recognition Bestowed on Faculty (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. L. N. Pattanaik	Best Paper award in Int. Conf. on Signal Processing, Control and Data Analysis-2015	ISSRD (Int. Society for Scientific Research & Development	14-15 March, 2015

Departmental Students' Activities

SI. No.	Name of the Activity	Students' Coordinator, if any	Date/Duration
1.	Student's Chapter, Production Engineering Division, The Institution of Engineers (India), organised 47th Engineer's Day Celebration on the occasion of 151th Birth Anniversary of Bharat Ratna Sir Moskhagundam Visvesavaraya	,	15 th September 2014
	Theme: Making Indian Engineering World-Class 15th September 2014		

Board of Studies (UG/PG)

Internal Member

Sl. No.	Name	Designation, Institute/Company, Full Address
i.	HOD/In-Charge	Chairman (Ex-Officio)
ii.	Dr. Vinay Sharma	Professor
iii.	Dr. Bijay Kumar Singh	Professor
iv.	Dr. S. C. Srivastava	Associate Professor
v.	Dr. Joyjeet Ghose	Associate Professor
vi.	Dr. Arbind Kumar- 1	Professor, Mechanical
vii.	Dr. Gautam Sarkhel	Associate Professor, Chemical Engineering and Technology
viii.	Mr. Kapildeo Prasad	Assistant Professor, Production Engineering, Patna off centre
ix.	Dr. Bappa Acherjee,	Assistant Professor, Production Engineering, BIT Deoghar off centre
X.	One representative UG	Final Year Having good Academic record and no backlog
xi.	One representative PG	Final Year Having good Academic record and no backlog

External Member

Members	From Academic Institute:	
i.	Dr. Somnath Chattopadhyaya Associate Professor	Department of Mechanical Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand, India Email Address: somnathbit@rediffmail.com Land Line No (O): +91-326-2296563 Mobile No:+91 9431122518
ii.	Dr. Debamalya Banerjee Associate Professor	Department of Production Engineering, 188, Raja S.C. Mallick Rd, Kolkata 700032. PH:+91-943-228-3650 Mobile: +91-9432283650, +919051755765 Fax:+91-33-2414-6153 Email: debamalya_banerjee@rediffmail.com
iii.	Dr. Nirjhar Roy Professor	Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad - 211004, INDIA Address (R): A-14 Staff Colony, MNNIT, Allahabad 211004 Telephone: +91 532 2540285/2271714, +91 532 2271507 (office) E-mail: nroy@mnnit.ac.in,
iv.	Dr. Niranjan Kumar Singh Professor	Department of Forge Technology, National Institute of Foundry & Forge Technology (NIFFT), Hatia - 834003, Ranchi, Jharkhand Mobile: +91-9431356823 Email: niranjanksingh@rediffmail.com

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Members	Members From Industry:						
V.	Mr. Shree Ranjan Program Manager (Alumni of Prod Depart- ment, 1972 batch)	Enterprise Solutions Group, Tata Technologies Ltd. Jamshedpur-10 Mobile: +91-9470195005 Email: ranjan@tatatechnologies.com					
vi.	Mr. Rana S Chakraborty DGM, (Alumni of Mechanical 1981- 85)	DGM, In-charge, Corporate Services, MECON Ltd Ranchi- 834002 Mobile: +91-9431706979 Email: y2710@yahoo.com					
vii.	Mr. Nitin Kumar, Deputy Manager (Alumni of Prod. Depart- ment, 2005-2009)	Powertrain Testing Design Development & Simulation Dept. Research and Development, Maruti Suzuki India Ltd., Gurgaon .Haryana. Mobile: +91-965434418 Email: nitin_04@yahoo.co.in					

Departmental Academic Committee

Head of the Department	-	Chairman
Dr. B. K. Singh, Professor	-	Member
Dr. Vinay Sharma, Professor	-	Member
Dr. S. K. Jha, , Associate Professor	-	Member
Dr. S. C. Srivastava, Associate Professor	-	Member
Dr. Joyjeet Ghose, Associate Professor	-	Member
Dr. Rajeev Agrawal, Assistant Professor	-	Member
Dr. Somak Datta, Assistant Professor	-	Member
Dr. Arbind Kumar Professor (Mech)	-	Member (Allied Department)
Dr. R. C. Jha, Professor (Eee)	-	Member (Allied Department)

Other Important Information

Departmental Policy Committee

Dr. B. K. Singh

Dr. Vinay Sharma

Dr. S. K. Jha

Dr. Joyjeet Ghose

Mr. Binay Kumar

Department of Remote Sensing



Department of Remote Sensing was established in the year 1997 with an aim to meet the increasing demand for qualified human resources in this rapidly developing field. Application of Remote Sensing/Geo-informatics techniques for various necessities such as resources evaluation, environmental monitoring and land use/land cover mapping etc., has grown considerably during the last few decades and RS data products as well as GIS/GPS are increasingly being used for plan formulation at all levels. This Department strives to contribute in the building of indigenous capacities for the development and utilization of space science and technology. Availability of remote sensing (RS) data with varied resolutions in digital forms has increased the scope of identifying, mapping, monitoring, classifying and evaluating different forms of renewable and non-renewable earth resources using multi-spectral, multi scanner and multi-temporal data products. The benefits of space technology, both direct and indirect, have introduced new dimensions into the study and understanding of Earth system processes and improving the quality of life. This is now a FIST-DST sponsored Department and is also supported by UGC - SAP (Special Assistance Programme)as well as Technical Education Quality Improvement Programme (TEQIP). The Department offers highly amicable teaching-learning ambience and research environment, with modern computers, equipments and RS&GIS softwares. This Department has been a partner in national and international collaborations and projects.

Programmes offered

- 1. M.Tech (Remote Sensing) 2 Years/4 Semesters duration 18 Seats
- 2. M.Sc (Geo-informatics) 2 Years/4 Semesters duration 20 Seats
- 3. Ph.D (Full time and Part time) Admission held twice in a year (Monsoon and Spring Semesters)

Facilities/equipments available:

- 1. Digital Image Processing (DIP) Laboratory
- 2. Geographical Information System (GIS) Laboratory
- 3. Digital Photogrammetry Laboratory
- 4. Global Positioning Systems (GPS) & Differential GPS
- 5. Photogrammetry Laboratory with Stereoscopes
- 6. Ground Truth Radiometer (GTR)
- 7. GPS Enabled Digital Camera
- 8. A0 Size Scanner/Plotter
- 9. Other essential lab as well as field implements

Sponsored Projects

Project Sanctioned

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Agriculture Ecosystem Products Development over Hindu-Kush- Himalaya (HKH) (Phase-I)	Dr. C. Jeganathan Mr. Nitish Kr. Sinha	International Centre for Integrated Mountain Development (ICIMOD) under NASA-SERVIR Himalaya	24.07.14	US\$ 25000	1 Year
2.	Drought Modelling And Software Development (Phase-I)	Dr. C. Jeganathan Dr. Kirti Avishek	International Water Management Institute (IWMI), Sri Lanka	1st August 2014	US\$ 9000	1 Year

Ongoing Projects

SI. No.	Project Title	PI /Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
01	IWMP, Kanke, Ranchi		MoRD, DoLR, GoI and GoJ	30.06.11	Rs. 7,42,76,602	5 Years (upto 31.03.16)

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
01	National Land Use Land Cover Mapping 2nd Cycle	Dr. C. Jeganathan	NRSC, ISRO, Hyderabad	06.02.12	Rs. 30.27 Lac	Jul 2014
02	Ground Water Quality Mapping under RGNDWM- PH-IV in parts of M.P.	Dr. V. S. Rathore	NRSC, DoS, Hyderabad	01.09.11	Rs. 45.25 Lac	Dec, 2014
03	Monitoring Snow & Glaciers of Himalayan Region, Zanskar Basin (J&K) Ph-II	Dr. V. S. Rathore	MoEF and DoS	01.07.11	Rs. 38.55 Lac	March 2014

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short - term Courses
1.	Workshop on Application of Remote Sensing, GIS & GPS in Watershed Management	Dr. A.P. Krishna Convenor Dr. V.S. Rathore Organising Secretary	State Level Nodal Agency, Watershed Mission, GoJ & Department of Land Resources, GoI	July 3 – 5, 2015
2.	13th EDUSAT (Satellite Based Distance Education) Course on "Basics of Remote Sensing, GIS and GNSS".	Dr. C. Jeganathan Nitish Kr. Sinha	Indian Institute of Remote Sensing (IIRS, ISRO, Dehradun)	4th August 2014 to 14th November 2014
3.	14th EDUSAT Outreach Programme on "Applications of Remote Sensing and Geographical Information System For Natural Resources".	Dr. C. Jeganathan Nitish Kr. Sinha	Indian Institute of Remote Sensing (IIRS, ISRO, Dehradun)	January 27 – March 27, 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

1.	Mrs. Richa N K Sharma	Special Winter School 2014	UGC	UGC	UGC -Academic Staff Collage, Ranchi	28.11.14 to 18.12.14
2.	Dr. C. Jeganathan	Faculty Development Programme	TEQIP	IIM, Raipur	IIM, Raipur	10.11.14 to 15.11.14

Publications

International Journals

1. Paul, K., Dutta, A. and Krishna, A.P., A Comprehensive Study on Landfill Site Selection for Kolkata City, India. Journal of the Air & Waste Management Association (Taylor & Francis). 2014, 64(7), 846-861.

- 2. Shweta and Krishna, A.P., Selection of the best method of ETo estimation other than Penman–Monteith and their application for the humid subtropical region, Agricultural Research, 2015, 4(2), 215-219
- 3. Kumar, J, Talwar, P, Krishna, A P, Forest canopy density and ASTER DEM based study for dense forest investigation using Remote Sensing and GIS techniques around East Singhbhum in Jharkhand, India, International Journal of Advanced Remote Sensing, 2015, 4(1): 1026-1032
- 4. Kour, R, Patel, N, Krishna, A.P., Assessment of relationship between snow cover characteristics (SGI and SCI) and snow cover indices (NDSI and S3). Earth Science Informatics, 2015,8: 317-326
- 5. Kour, R, Patel, N and Krishna, A.P., Effects of Terrain Attributes on Snow Cover Dynamics in Parts of Chenab Basin, Western Himalayas, Hydrological Sciences Journal, 2015, http://dx.doi.org/10.1080/02626667.2015.1052815
- 6. Chhetri, S, Krishna, A.P. and Singh, K K., Community forest management in Sikkim Himalaya towards sustainable development, International Journal of Environment and Sustainable Development, 2015,14 (1): 89-104
- 7. Mukherjee, A B, Patel, N and Krishna, A.P., Development of heterogeneity index for assessment of land use patterns and traffic congestion, International Journal for Traffic and Transport Engineering, 2014, 4(4): 397–414
- 8. Shweta and Krishna, A.P. A water balance study for computation of aridity index and to assess water deficit/surplus months for seasonal crop planning, International Journal of Earth Sciences and Engineering, 2014, 7(3): 948–951.
- 9. Saptarshi Mondal, Jeganathan, C., Nitish K. Sinha, Harshit Rajan, Tanmoy Roy, and Praveen Kumar, Extracting seasonal cropping pattern using multi-temporal vegetation indices from IRS-LISS III data in Muzaffarpur district of Bihar, India. Egyptian Journal of Remote Sensing and Space Science, 2014, 17(2), 123-134.
- 10. Jeganathan, C., Dash, J. and Atkinson, P.M., Remotely sensed trends in the phenology of northern high latitude terrestrial vegetation, controlling for land cover change and vegetation type. Remote Sensing of Environment, 2014,143, 154-170.
- 11. Jeganathan, C. and Nilay Nishant, Scrutinising MODIS and GIMMS for extracting growth rhythm of natural vegetation in India. Journal of Indian Society of Remote Sensing. 2014, 42(2), 397-408, DOI:10.1007/s12524-013-0337-5.
- 12. Singh Kartar, Ghosh Mili, R. Sharma Shubha, and Kumar Pavan, Blue-Red-NIR Model for Chlorophyll-a Retrieval in Hypersaline-Alkaline Water Using Landsat ETM+ Sensor. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014,7(8), 3553-3559.
- 13. Parihar, N., Das, A. Rathore, V.S., Nathawat, M.S. and Mohan, S., Analysis of L-band SAR backscatter and coherence for delineation of land use/land cover, International Journal of Remote Sensing, 2014, 35:18, 6781-6798, DOI: 10.1080/01431161.2014.965282.
- 14. R. Nagarjuna Kumar, V.S. Rathore, K. Srinivas Reddy, M.S. Nathawat, Simulation of Grape Crop Future Water Requirement Using CROPWAT Model in Semi- Arid Region, Int. Jour. Applied Engineering Research, 2015, 5867-5880.

International Proceedings

- Chandrashekhar Biradar, Abdallah Bar, Roy, P. S, Prashant Patil, Ahmed Amri, Murari Sing, Jeganathan C., Geoinformatics and Genetic Resources under Changing Climate. International Workshop on "Applied Mathematics and Omics Technologies for Discovering Biodiversity and Genetic Resources for Climate Change Mitigation and Adaptation to Sustain Agriculture in Drylands", Rabat - Morocco, 2014, 24-27 June 2014.
- 2. Chelliah. S. "Bypass road for Ranchi Urban Region Using Remote Sensing And GIS". IGTF 2015 Imaging and Geospatial Technology Forum & Co-located JACIE Workshop Tampa, Florida, USA, May 4-8,2015.

National Journals

1. Kumar, V, Sharma, R and Krishna, A P. Spatio-Temporal Variability Assessment of Biophysical Parameters in the Tropical Deciduous Broadleaf Forest in Eastern India, Journal of Remote Sensing & GIS, 2015, 6(2): 61–68.

BOOK:

Edited Books -

1. SuneetNaithani and C. Jeganathan. Remote Sensing and GIS in Environmental Resource Management, Gaura Books India Pvt. Ltd., New Delhi. 2014, ISBN: 978-81-929248-0-9.

Chapter(s) in Edited Book

- 1. C. Jeganathanand Sharifi, M.A., Quantifying Qualitative environmental interactions while assessing sustainability of a forest management unit. In: Sustainable Forest Management For Multiple Values, Vol. I, Page 3-11, Ed by Bhojvaid.P.P&NeenaKhandekar, Forest Research Institute(FRI, Dehradun), ISBN:978-93-5174-807-6.
- 2. C. Jeganathan, SoumyaRajan and SuneetNaithani. Analysing and Quantifying Time-Series Satellite Data for Vegetation Monitoring. In SuneetNaithani (Eds.), Remote Sensing and GIS in Environmental Resource Management, Gaura books India Pvt. Ltd, New Delhi, 2014, ISBN 978-81-929248-0-9.
- 3. Tauseef Ahmad and C. Jeganathan. Four decades of Urban Growth in Ranchi. In SuneetNaithani (Eds.), Remote Sensing and GIS in Environmental Resource Management, Gaura books India Pvt. Ltd, New Delhi, 2014, ISBN 978-81-929248-0-9.
- 4. Sharma, L.K., Suman Sinha, Nathawat, M.S. and C. Jeganathan. Uses of Multi-Polarised ALOS PALSAR Data for Biomass Assessment of Tropical Forests: A Step towards REDD. In SuneetNaithani (Eds.), Remote Sensing and GIS in Environmental Resource Management, Gaura books India Pvt. Ltd, New Delhi, 2014, ISBN 978-81-929248-0-9.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. C. Jeganathan	Erasmus Mundas Visiting Scholar Fellowship	European Union (EU), (Implementing organisation: University of Twenty, Netherlands)	11th to 26th June 2015.

MoUs / Collaborations

SI. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1.	International Centre for Integrated Mountain Development (ICIMOD), Nepal	Developing Hindu-Kush-Himalaya (HKH) level regional products on Agricultural Ecosystem using Time-Series Satellite Data	2014/ 13 Months

Departmental Students' Activities

S1. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
1.	Education field trip	Dr. V.S. Rathore	27 March - April 06 2015 (Dehradun)

Board of Studies (UG/PG)

Internal Members

1.	Head of the Department	Chairman, Ex-Officio
2.	Dr. A.P. Krishna	Member
3.	Dr. N. Patel	Member
4.	Dr. C. Jeganathan	Member
5.	Dr. V.S. Rathore	Member
6.	Dr. Mili Ghosh	Member
7.	Dr. AbhisekSantra	Member
8.	Dr. G. Sahoo (IT - now CSE)	Member
9.	Dr. S. Jha (Pharmaceutical Sc. & Technol.)	Member

External Members (Any Two)

- 1. Dr. S. Sengupta, Advisor, Deptt. Of Science & Technology, West Bengal
- 2. Dr. D. Ramakrishna, Assoc. Professor, Deptt. Of Earth Sciences, IIT Bombay
- 3. Dr. M.K. Ghosh, Prof.& Head, Computer Science & Engg., SMIT, Majitar, Sikkim
- 4. Dr. R.N. Sahoo, ICAR, Pusa, New Delhi
- 5. Dr. V. Raghavaswamy, Group Director (LU & US Group), NRSC, Hyderabad

Departmental Academic Committee

1.	Head of the Department	Chairman, Ex-Officio
2.	Dr. A.P. Krishna	Member
3.	Dr. N. Patel	Member
4.	Dr. C. Jeganathan	Member
5.	Dr. V.S. Rathore	Member
6.	Dr. Mili Ghosh	Member
7.	Dr. Abhisek Santra	Member
8.	Dr. G. Sahoo (IT - now CSE)	Member
9.	Dr. S. Jha (Pharmaceutical Sc. & Technol.)	Member
10.	Guide (s) of the Candidate	Member

Department of Space Engineering & Rocketry



The Department was established in 1964 and initially it offered Post-graduate Diploma program. Later twoyear Post Graduate Degree Programme was started in 1968, leading to M. E. in Space Engineering and Rocketry with two specializations, namely Aerodynamics and Rocket Propulsion. In the year 2002, another Post Graduate Programme was introduced, leading to M. Tech. in Fuels and Combustion.

The Department has its own administrative building, having Class Rooms and Seminar Halls, besides various Laboratories, housed in separate buildings.

The various Divisions under the Department are:

Aerodynamics Division

Rocket Propulsion Division

Propellant Technology Division

Combustion Division

The Department has endeavoured to develop a state-of-art infrastructure to train post graduate students and to support R & D work at Doctoral and Post-Doctoral levels, as also to carry out Grant-in-Aid Projects, sponsored by various agencies.

The Department has taken up sponsored R & D Projects from premier agencies, like UGC, AICTE, DST, Ministry of HRD, ISRO, DRDO, CSIR. It has successfully completed as many as 40 Projects and currently 03 sponsored projects are under progress. The Department has also been recognized under Special Assistance Programme of UGC. Liquid and Hybrid Rocket Propulsion facilities have been modernised and related instrumentation has been upgraded.

The notable current research activities in the Department include:

Development of Hybrid Rocket Propulsion Systems

Droplet Combustion Studies

Development of High Regression Rate Hybrid Fuel

Combustion Study of Hybrid Fuels with Nitrous

Oxide Oxidizer

Study on Premixed Flame

Commissioning of Solid and Liquid Propulsion Lab

Development of (solid-liquid) Hybrid Rocket Setup

Thermal Analysis of High Energy Materials

Slender Body Aerodynamics at High Angles of Attack at Subsonic Speed

Studies on Reusable Launch Vehicle and Delta/ Double Delta Wing at Subsonic Speed

Cavity and Protrusion Flow Field Studies at Supersonic Speeds

Studies on Spiked Blunt Bodies at Supersonic Mach No.

Supersonic Air- Intake Studies

Development of Compressible Navier-Stokes Code

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Measurement of Axial Force on Cone with Spike at Supersonic Speed	Dr. J. K. Prasad	ANSP DRDL	18/12/ 2009	10.80	6 year
2.	Measurement of Unsteady Pressures on Conical Region of a Missile at Supersonic Speed	Dr. J. K. Prasad	ASL DRDL	01/6/2011	8.20	4 year
3.	Investigation of Flow Behaviour on Winged body at Subsonic Speed	Dr. J. K. Prasad Dr. Sudip Das Prof. P. Kumar	AR&DB	01/2/2012	11.40	03 years

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1.	Development of Cryo - Hybrid Rocket Propulsion	Dr. P. C. Joshi	UGC (SAP - II)	01/4/ 2007	49.00	May 2015
2.	Study of Flow Field inside Air Intake with Flow Control	Dr. J. K. Prasad Dr. Sudip Das Prof. Priyank Kumar	RESPOND (ISRO)	01/04/2011	18.59	April 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Mr. Priyank Kumar	Mission "Know Yourself as a Teacher"	TEQIP	BIT, Mesra	BIT, Mesra	24.11.2014 to 28.11.2014
2.	Mr. Priyank Kumar	Two Week Main Workshop on Control System	TEQIP	NMEICT TEQIP	BIT, Mesra	02.12.2014 to 12.12.2014

Publications:

International Journals

- 1. Tiwari H.P, Banerjee P. K., Sharma R., Haldhar S.K., Joshi, P. C., "A comparative Study of By-Products Yield from Coke making process in Jenkner Apparatus" Coke and Chemistry 2014, 5, 57, 192-198,.
- 2. Kakumanu, Lalit V, Yadav, Narendra, Karmakar S. "Combustion Study of composite solid propellants containing metal phthalocyanines" Int. Jr. of Aerospace Sciences, Dec. 20143 (2), 31-36.
- 3. Sakote R., Yadav, Narendra, Karmakar S., Joshi P. C., "Regression rate studies of paraffin Wax-HTPB Hybrid Fuels using Swirl Injectors" Propellants, Explosives, Pyrotechnics 39 (6), 859–865, 2014.
- 4. Yadav, Narendra, Majhi, S.S, Saw, S. K., Srivastava, P. K., "Morphological orders of spherucrystel textures in Belousov- Zhabotinskey- type oscillatory reaction system" Chemical Paper, Mar. 2015, 69 (4), 604–615.

Proceedings

1. N. S. Akshay, S. Das, P. Kumar, J. K. Prasad "Investigation of flow field over an axixymmetric supersonic cavity with ring" 5th International & 41th National Conference on Fluid Mechanic and Fluid Power, 2014.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. J. K. Prasad	Vic- President	Fluid Mechanic & Fluid Power Society of India	2014-15
2	Dr. J. K. Prasad	Member of Core Group	Aerospace Division, IE(I)	2014-15

Board of Studies

Internal Member

Sl. No.	Name of Member	Designation
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Dr. P. C. Joshi	Professor
3	Dr. Mohan Varma	Professor
4	Dr. Sudip Das	Associate Professor
5	Prof. Priyank Kumar	Asst. Professor
6	Dr. Rajiv Kumar	Asst. Professor
7	Dr. Arbind Kumar I	Professor
8	Dr. B. K. Singh	Professor

External Member

Sl. No.	Name of Member, Designation, Institute/Company, Full Address
1	Dr. Navtej Singh, Professor IIT, Kharagpur
2	Dr. B. Mazumdar, Professor, Jadavpur University, Kolkata
3	Dr. B. S. Subhash Chandran, Programme Director, DRDL, Hyderabad
4	Sri M.C. Dathan, Director, VSSC, Trivandrum
5	Dr. S. R. Chakravarthy, Professor, Dept. of Aerospace Engg., IIT Madras

Departmental Academic Committee

Sl. No.	Name of Member	Designation (DAC/AC)
1	HOD/In-Charge	Chairman (Ex-Officio)
2	Dr. P. C. Joshi	Professor
3	Dr. Mohan Varma	Professor
4	Dr. Partha Mondal	Asst. Professor
5	Dr. Rajiv Kumar	Asst. Professor
6	Dr. Arbind Kumar	Professor
7	Dr. Usha Jha	Professor
8	Guide(s) of the Candidate	



ALLAHABAD



The off campus at Allahabad is located at the Raymond Crossing on Allahabad-Mirzapur Road. This Centre was established in the session 1997-98 with a view to start B. Tech. Degree Programme in Civil, Mechanical and Electrical & Electronics Engineering for the working Engineering Diploma holders on part time basis.

In view of demand of trained computer and management personnel at National level and as also to provide job-oriented professional education and training to youth of the area, the Institute introduced (3-years) full-time courses like Bachelor of Computer Applications (BCA), Bachelor of Business Administration (BBA), 5 year Integrated Master of Computer Applications, 5 year Integrated Master of Business Administration and Master of Computer Applications (MCA).

The computer laboratory of this centre has over 100 computers connected through LAN network and Internet connectivity is available through out the day. The centre is Wi-Fi enabled. The Institute Library has a reasonably good number of text books and Technical Journals are being regularly subscribed by it. The library currently provides access to e-journals like Science Direct and other resources to the faculty, students, and staff under internet environment. The centre has its own website where relevant information regarding the centre is available throughout the year.

Some of the engineering laboratories developed by the centre are Electrical Machines laboratory, Basic Electrical & Electronics laboratory, Microprocessor laboratory, Digital Electronics laboratory, Control Engg. laboratory, Power Electronics laboratory, Digital Signal Processing laboratory, IC Engines laboratory, Manufacturing Processes laboratory, Non-conventional Energy laboratory, Hydraulics Laboratory, Surveying and Geotechnical Engg. Laboratory.

The centre has a moderate size play ground, Volleyball Court and Badminton Court. The centre encourages students to organize co-curricular and extra curricular activities such as Games and Sports meet, Cultural meet, Quiz, Debates & Essay competition, Painting & Photographic competition etc at periodic intervals.

Full Time Programmes Being Offered

- (i) Master of Computer Applications (MCA)
- (ii) 5 year Integrated Master of Computer Applications (IMCA)
- (iii) 5 Year Integrated Master of Business Administration (IMBA)
- (iv) Bachelor of Engineering in Computer Science & Engineering
- (v) Bachelor of Engineering in Information Technology
- (iv) Bachelor of Computer Application (BCA)
- (v) Bachelor of Business Administration (BBA)
- (vi) Master of Technology in Computer Science
- (vii) Master of Business Administration

Seminars / Conferences / Workshops / Staff Development Programmes attended

SI. No	Name of the Faculty	Title of the Conference / Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. S. Kanungo	National workshop on nature inspired algorithms and its application in software engineering	MNNIT, Allahabad	Department of CSE, MNNIT, Allahabad	MNNIT, Allahabad	October 7 -11, 2014
2	Mr Ratnesh Mishra	Workshop on Computer Connectivity and Contents	CFCS and CSI Allahabad Chapter	CFCS and CSI Allahabad Chapter	ECC Allahabad	May 9, 2015
3	Mr. Ratnesh Mishra	Workshop on Latex Simulation & Computer Network Security	CSI Allahabad Chapter	CSI Allahabad Chapter	UPTEC, Sangam Palace, Allahabad	September 13, 2014
4	Dr. P.C. Srivastava	ATM Workshop on Topological Combinations	TIFR, Bombay	HRI	HRI Allahabad	October 06-11 2014
5	Dr. P.C. Srivastava	National Conference on Differential Geometry and its Applications	University of Allahabad	University of Allahabad	University of Allahabad	December 27- 28, 2014
6	Dr. A.M. Dubey	Short Term Training Programme on Lean Six Sigma Tools and Applications.	TEQIP-II Sponsored	Department of Production Engineering, BIT Mesra, Ranchi	BIT Mesra Ranchi	25.05.2015 to 29.05.2015
7	Mr. S.S. Kumar	FDP on Synthesis, Characterizations & Applications of Nano Materials	MNNIT, Allahabad	MNNIT, Allahabad	MNNIT, Allahabad	July 07-12, 2014

Publication

International Journal

- 1. Pandey, SC; Nandi, GC; TSD based framework for mining the induction rules, Journal of Computational Science 5, pp. 184 195, 2014,
- 2. Pandey, SC; Nandi, GC; Convergence of knowledge, nature and computations: a review, Soft Computing, pp. 26, 2014,
- 3. Pandey SC; Singh SK; DNA sequence based data classification technique, CSI Transaction on ICT, pp. 11, 2015,
- 4. Mishra, Kamta Nath; Srivastava, Deepak; Kesharwani, Rajan; Palatal patterns based on RGB Technique for personal identification, International Journal of Image, Graphics and Signal Processing, Vol. 7, No. 10, 60-77, 2015.
- 5. Mishra, Kamta Nath; Mishra, Kanderp N.; et al., "Face Veins based MCMT Technique for Personal Identification", International Journal of Intelligent Systems and Applications, Vol. 7, No. 9, 57-72, 2015.
- 6. Mishra, Kamta Nath; Srivastava, PC; Agrawal, Anupam; et al., Minutiae Fusion Based Framework for Thumbprint Identification of Identical Twins, International Journal of Intelligent Systems and Applications, MECS press Hong Kong, Vol. 6, No. 1, 84-101, 2014.
- 7. Tiwari, Nidhi; A Conceptual framework on critical success factor for implementation of Public Private Partnership (PPP) based on Literature Review, International Journal of Science, Technology & Management, Vol. 4, No. 1, PP 692-704. ISSN No. 2394-1537, 2014
- 8. Srivastava, PC; Chaurasiya, Anju; A paper on Spline based Computational techniques for 2nd, 3rd, 4th order BVP, Global Journal of Pure & Applied Mathematics, July 2015. ISSN/ISBN No. 09731768, Paper code 39133
- 9. Sehgal, R., Dubey., A.M., & Tiwari., N., A Conceptual Framework on Critical Success Factor for Implementation of Public Private Partnership Based on Literature Review. International Journal of Science Technology & Management., March 2015, Vol 4, No. SI(01), pp 692-704.

International Proceedings

- 1. Kanungo, S, An Approach for Pre-Filtering Images from Big Data Sets, Proceedings of IEEE International Conference on Computing, Communication and Automation (ICCCA2015), ISBN:978-1-4799-8890-7/15, p. 1110 1115, 2015.
- 2. Singh, Irish; Mishra, Kamta Nath; "A novel privacy and security framework for the cloud network services", 17th IEEE International Conference on Advanced Communication Technologies (IEEE ICACT), Phoenix, South Korea, pp.1-5, July 1-3, 2015.
- 3. Tiwari, Nidhi; A conceptual model of determinants of women Entrepreneurship based on Literature Review, International Conference held at MNNIT, Allahabad, McGraw Hill Education (India) Private Ltd. ISSN No. 978 93 392 2075 4. pp 78 86.
- 4. Kumar SS, Application of Nano Tio2 and Nano ZnO Particles in TSA Amino Stoving Top Coats to study their Synergistic Effects, International Conference ICMMSA 2014; Springer; ISBN 13: 978-93-392-2019-8 and ISBN 10: 93-392-2019 Page: 167-171, Organised by University of Missouri Columbia, USA and MNNIT, Allahabad.

National Proceedings

1. Kumar SS, Improvement in the Quality of Industrial Stoving Paints by Optimum Dispersion of Nano Pigment Particles w.r.t. Weathering & Corrosion Protection, National Conference Proceeding – NCRACMS – 2015, ISBN:978-93-84224-25-7, Page: 43-47, February, 2015 held at Madan Mohan Malviya University of Technology, Gorakhpur.

Books / Edited Books

Dubey., A.M., Geetika., & Sahu G.P., Determinants of Sustainable Competitive Advantage in Indian Aviation Industry. In Advances in Management and Technology Mapping Strength with Opportunity, Mc Graw Hill Education, New Delhi, January 2015, pp. 9-14.

Award / Recognition bestowed on Faculties (State / National / International)

Sl. No	Name of the Faculty	Title of the Award/Honors	Organization	Year/Duration
1	Dr.(Mrs.) Nidhi Tiwari	Best paper award at International Conference on the topic "Advances in management & technology: Mapping strengths with opportunities	SMS, MNNIT, Allahabad	29-31, January, 2015

Students' Activities

Sl. No.	Name of the Activity	Students' Coordinator	Date/Duration
1.	Industrial Visit for MBA IV Semester Students at Shyam Dairy, Allahabad.	Vishal Yadav Huraira Kulsum	08/04//2015
2	Blood Donation Camp by Bailey Hospital, Allahabad	Surbhit Agrawal Divyaang Maheshwari Lavanya	19/09/2014
3	Drishti Green	Divyaang Maheshwari	01/08/2014
4	Annual Sport – 2015	Deepak Kumar	Feb 16-24, 2015
5	Cultural Festival -2015	Divyaang Maheshwari Surbhit Agrawal Animesh Sriparna Kartikay Dubey	06-04-2015

Other Important Information

a. New acquisitions

Sl. No.	Name of the Learning Resource	Funding Agency
1	Elsevier	BIT Mesra
2	Computers	BIT Mesra

b. Two new programmes, BE in Computer Science & Engineering and Information Technology have been started

- c. Mr. SS Kumar delivered invited lecture on "Effective Process Design for Applications of Nano Composite Coatings" in National conference on Recent Advances in Chemical & Materials Science 2015 at Madan Moahan Malviya University of Technology, Gorakhpur on 24th February, 2015.
- d. Mr. SS Kumar delivered invited lecture on "Nano Coatings and their Application Techniques" in National Conference (MSEH -2015) on 8th January, 2015.
- e. Mr. SS Kumar delivered invited lecture on "Synthesis, Characterization & Applications of Nano Materials" at MNNIT, Allahabad on "Applications of Nano Materials in High Performance Coatings".
- f. Mr. SS Kumar presented a paper on "Improvement in the Quality of TSA-Amino & Polyester-Amino Industrial Stoving Paints by Optimum Dispersion of Nano Particles w.r.t. Corrosion Protection and Weathering Resistance" in National Conference Proceeding: MSEH 2015, sponsored by Energy Department, Government of India, SERB & Jubilee College, Bhurkunda.

DEOGHAR



The BIT off campus at Deoghar is approved by AICTE. The campus was inaugurated on 3rd October 2007. So far, five batches of B.E. in ECE, EEE, CSE, Mechanical and Production engineering have graduated. (Total intake is currently 270 students per year). It is spread over an area of about 25 acres and situated around 1.5 km away from the Jasidih Railway Station (Howrah-Patna-New Delhi main route). The Institute campus includes an academic block, two boys' hostels, a girls' hostel, a canteen, a stationary shop, one SBI ATM counter, health centre, multi-gym facility, seminar hall, language lab etc. The Institute provides a bus to the faculty and staffs during the office hours to facilitate transport connectivity in between the residential areas and the office. A few staff quarters are also available within the campus.

ECE Department of the Institute has well equipped laboratories including Analog & Digital Electronics lab, Instrumentation lab, Analog and Digital Communication lab, Microprocessor lab, VLSI lab, Microwave lab, Optical Fiber Communication lab, Wireless communication & networking lab.

The Laboratories of EEE Department include Electric Machine Lab, Simulation Lab, Basic Electrical Lab, Power Electronics Lab & Applied Power Electronics Lab, Instrumentation Lab, Micro Processor Lab, Control Lab & Applied Control Lab, Power System Lab etc.

Computer Science & Engineering Department has three spacious and well-designed computer laboratories, equipped with over 200-networked high-end P-IV personal computers. Cyber Roam is also available for controlling networking and distribution of bandwidth across the campus.

The Mechanical Engineering Department of the Institute has the following notable laboratories viz. Engineering Graphics Lab, Fluid & Hydraulics Machinery Lab, Measurement Lab, Mechanics of Solid Lab, Mechanical Engineering Lab, Internal Combustion Engine Lab, Energy Engineering Lab, Heat Transfer Lab, CADD Lab, Thermal Engineering Lab, Dynamics of Machine Lab.

The Department of production engineering has Pattern Making and Foundry Shop, Welding Shop, Machining Shop and Machine Tool Lab, Metal Forming and Fitting Shop, Metrology Lab, Metallurgy Lab, Tool Design Lab, Simulation Lab, etc.

At present the Institute also has water quality and fuel testing facilities.

To improve the overall campus life the students get themselves involved in multifaceted activities including Sports, NSS, Creative Arts, dancing & singing, performing dramas, Literary activities etc. apart from their routine technical involvements.

The Institute has a well maintained library with a large number of academic books, magazines and scientific journals (both in Print and e-copies).

Sponsored Projects Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1.	Investigation of coupled optical beam propagation in nonlinear media for soliton pair and breather pair formation		UGC	25/03/2013	10.56 Lakhs	3 Years
2.	Heavy metal removal using titania nano-hollow sphere and nano-flowers	Dr. Jayeeta Chattopadhyay	DST	03/12/2014	2,00,000	2 yrs

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1	To develop a specially designed IR heating clothing and pad for elderly people	Mr. P.K Manoharan	DST, Jharkhand		15,85,862.00	March 2015
2	Development of economically favourable hollow sphere electrocatalysts for hydrogen and oxygen production from water electrolysis using PEMWE system	Jayeeta Chattopadhyay	SERB-DST	18/11/2010	19.85 lac	30/11/2014

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1.	Chinmay Chakraborty	Int. Conf. on Medical Imaging,m-Health and Emerging Comm. Syst.	IEEE	Med Com - 2014	Greater NOIDA, India	Nov. 16-17, 2014.
2.	Anil Kumar Sharma	Integrated Automation Technologies	TEQIP	Department of Mechanical Engineering IIT-Delhi	IIT-Delhi, New Delhi	01/06/2015 -06/06/2015

3.	Abhishek Kumar Singh	QIP short term course on "Micro-manufacturing Technologies"	AICTE	IIT Guwahati	IIT Guwahati	23/03/15- 27/03/15
4.	Abhishek Kumar Singh	1st International Conference on "Advancement and Recent Innovation in Mechanical, Production and Industrial Engineering".		ITS Engineering College	ITS Engineering College, NOIDA.	10/4/15- 11/4/15
5.	Mr. P.K Manoharan	Six sigma		Department of Production Engineering, B.I.T MESRA	B.I.T MESRA	08/2014
6.	Mr. P. K. Manoharan	Virtual BAJAJ SAE INDIA		Society of Automotive Engineers, India		08/2014
7.	Dr. M. K. Dutta	Orientation Programme	UGC	HRDC Ranchi	At University of Ranchi	12/03/2015- 08/04/2015
8.	Dr. S .S Majhi	Orientation Programme	UGC	HRDC Ranchi	At University of Ranchi	15/5/15 to 11/ 6/15
9.	Dr. Ram Krishna Sarkar	Orientation Programme	UGC	HRDC Ranchi	At University of Ranchi	15/5/15 to 11/ 6/15

Publications

International Journals

- Chinmay Chakraborty, Identification of Chronic Wound Status under Tele-Wound Network through Smartphone, IGI Global International Journal of Rough Sets and Data Analysis, Special issue on: Medical Image Mining for Computer-Aided Diagnosis, 2(2), 56-75, 2015.
- 2. Chinmay Chakraborty, Mobile Metadata Assisted Community Database of Chronic Wound, Int. Journal of Wound Medicine, Elsevier, 6, 34-42, 2014.
- 3. Acherjee, B., Prakash, S., Kuar, A.S. and Mitra, S., Grey relational analysis based optimization of underwater Nd:YAG laser micro-channeling of PMMA, Procedia Engineering (Elsevier Science Publications), 2014, 97, 1406 1415.
- 4. Acherjee, B., Kuar, A.S., Mitra, S., and Misra, D., Laser transmission welding of polycarbonates: experiments, modeling, and sensitivity analysis, International Journal of Advanced Manufacturing Technology (Springer-Verlag London Limited), 2015, 78, 853-861.
- 5. Acherjee, B., Kuar, A.S., Mitra, S., and Misra, D., Empirical Modeling and Multi-Response Optimization of Laser Transmission Welding of Polycarbonate to ABS, Lasers in Manufacturing and Materials Processing, (Springer New York), 2015, 2, 103-131.
- 6. Mishra, B. K., Sharma, A., Dinesh, A. and Misra, A., Concentration and temperature profile of LiBr aqueous solution flowing over horizontal tube with film redistribution. Journal of Engineering and Applied Sciences, 2014, Accepted for publication

- 7. Tiwari et al., Assessing the success of Six Sigma: An empirical study, Asian Journal of Engineering and Applied Technology, 2015, 4 (1), 12-23.
- 8. Singh,A.K., Shukla,S.S and Dutta. J., (2015). Green Manufacturing: Case Study using AHP and Grey Relation. International Journal of Engineering and Applied Sciences (IJEAS) ISSN: 2394-3661, 2(3), 83-86.
- 9. Singh, A.K, Jha, S.K and Prakash, A. (2015). Imperatives of Green Manufacturing. ELK Asia Pacific Journals Special Issue ISBN: 978-81-930411-4-7
- Singh, A.K, Jha, S.K and Prakash, A. (2014). Adoption of Green Manufacturing (GM) in Selected Indian Industries. International Journal of Applied Engineering Research (ISSN 0973-4562), 9 (23), 20383-20404.
- 11. Manoharan, P.K., Singh, B.K and Jha S.K., Analysis of load and gradient effect on hand force responses during brick carrying in a Brick kiln, 2015, 10, 35332-35336.
- 12. Majhi, S.S., Morphological orders of spherulitic crystal textures in Belousov-Zhabotinsky-type oscillatory reaction system. Chemical papers, 2015, 69, 604 615.
- 13. Majhi, S.S., Brown color Bande polymer formation through the frontal polymerization. Int. J. Chem. Engg. 2014, 31, 1153 1163.
- 14. Chattopadhyay, J., Singh, A.C., Ni nano-particle encapsulated in hollow carbon sphere electrocatalyst in polymer electrolyte membrane water electrolyser. Electrochimica Acta 2015, 167, 429 438.
- 15. Sharma, A. Impact of age, verified occupation and lifestyle on semen parameters of infertile males in Jaipur: A preliminary study. International Journal of Health and Allied Sciences 3(4):278-283.
- 16. A. Sharma (2014). Assessment of the effects of different oxidative stress level on sperm functional parameters and genomic integrity. Journal of Research in Medical Education and Ethics 4(3):303-311.
- 17. A. Sharma, Ansari, A.S., and Lohiya, N.K. (2015). Impact of body mass index (BMI) on sperm functional parameters and serum hormonal profile of infertile males. International Journal of Health Sciences and Research 5(2): 315-323.
- 18. Sarkar R. K., Mallick S. Coupled soliton-breather, breather-breather and breather-soliton pair formation in Kerr type nonlinear media. Optic Commun. 2015, 356, 141-146
- 19. Prasad S, Sarkar R. K., Medhekar S. Coupled tapering/uptapering of dark soliton pair in nonlinear media. 2015, 126, 677–680 (online in April 2015)

International Proceedings

- 1. Chinmay Chakraborty, Tele-wound Monitoring through Smartphone, IEEE: Int. Conf. on Medical Imaging, m-Health and Emerging Comm. Syst. (MedCom), Greater NOIDA, India, 197-201, 2014.
- 2. Roy, N., Kuar, A.S., Mitra, S. and Acherjee, B., Nd:YAG laser microdrilling of SiC-30BN nanocomposite: Experimental study and process optimization, Proc. of 5th International and 26th All India Manufacturing Technology, Design and Research (AIMTDR) Conference 2014, Indian Institute of Technology Guwahati, India, December 12-14, 2014, 224-1-6.
- 3. M. K. Dutta, "Study and Comparison of Erbium Doped Fiber Amplifier (EDFA) and Distributed Raman Amplifier (RA) for Optical WDM Networks", presented in the International Conference on Fiber Optics and Photonics 2014, December 13-16, 2014 in IIT Kharagpur, Kharagpur, India.

4. M. K. Dutta, "Comparative Performance Analysis of Different Segmentation Dropping Schemes under JET Based Optical Burst Switching (OBS) Paradigm," presented in the Springer sponsored 3rd International Conference on Advanced Computing, Networking and Informatics ICACNI-2015, 23-25 June 2015 at School of Computer Engineering, KIIT University, Bhubaneswar

BOOK

Books / Edited Books

Chinmay Chakraborty, PSTN-IP Telephony Gateway for Ensuring QoS in Heterogeneous Networks: Modeling, Analysis and Optimization. Lambert Academic Publishing 2014.

Award / Recognition Bestowed on Faculties (State / National / International)

Sl. No.	Name of the Faculty	ame of the Faculty Title of the Award/ Honours		Year / Duration
1.	Dr. J. K. Prasad	Member, Aerospace Engineering Board	Institute of Engineering (India)	2015
2.	Chinmay Chakraborty	Appointment as International Advisory Board for Malasia Technical Scientiest Congress (MTSC) - BIZMATOUR	Malasia Technical Scientiest Congress	2015

Students' Activities

Sl. No.	Name of the Activity	Students' co-ordinator, if any	Date/Duration
1	SUSTAINERGIES 1.0: THE NEXT BIG THING.	Harsh Aggarwal and Richa Sinha	12/03/2015 and 13/03/2015

Other Important Information

The Institute conducted the following events during the specified period

- 1. The Annual Sports '15 of the campus were organized during 4-6th Feb 2015.
- 2. The Annual Techno-Cultural fest UTTHAAN '15 was organized during 12-14th March 2015.
- 3. The Literary Fest of the Institute AURORA '15 was conducted during 24-25th March 2015.
- 4. The National Education Day was celebrated in the Institute on 11th Nov. 2015.
- 5. International Mother Language Day was celebrated in the Institute on 21st Feb. 2015.
- 6. The Techno-Cultural fest PHOENIX'15 was organized in the Institute on 17th Sept. 2014.

JAIPUR



BIT Jaipur Campus was established in 1995. The focus of the Institute is on providing quality education in Engineering, Applied Sciences and Management with technology and professional exposure through innovative programmes & practices. Driven by the mission that the technology and innovative management practices will be the gateway to the future growth, it is today one of the leading Institutes of Rajasthan in the field of Engineering, Applied Sciences and Management.

DEVELOPMENT VISION:

Development is a never ending process, undoubtedly, knowledge spread, innovative concepts, innovative practices and technology breakthroughs are at core of this process. In the professional education domain, it is a two dimensional need for upgrading knowledge and infrastructure - one to understand the fast happening conceptual and technology breakthroughs and second to facilitate new such breakthroughs to take place with more knowledge inputs and basic research. In the present competitive environment, it is now a willing compulsion for a capable and growth oriented organization to be a part of contemporary development process.

With excellent performance, progressive mind set and good will earned, the BIT Jaipur Campus has a long term vision to consolidate the strength and excel in engineering and management education and research in emerging areas. The BIT Jaipur Campus has good potential to be one of the leading technical Institutes in western part of the country.

Academic Programmes

Undergraduate

B.E. in following branches of Engineering:

- i) Computer Science (CS)
- ii) Electronics and Communication Engineering (ECE)
- iii) Electrical & Electronics Engineering (EEE)

BBA, BCA & B.Sc. (Animation & Multimedia)

Postgraduate:

MBA, MCA, Masters in Animation Design, Integrated MBA and Integrated MCA

Doctoral

Ph.D Programme in Computer Science Engineering, Electronics & Communication Engineering, Management, Animation and Basic Sciences (Physics, Chemistry & Mathematics)

Main Facilities and Equipment

Building & Campus: The Institute is built up in about 5 Acre land (20000 Sq M). The built up area is about 6000 Sq M consisting of 13 class rooms, 15 lab halls, Mechanical workshop, Seminar Hall (150 Capacity), Common Computer/Internet Access Centre (30 Computers), Library hall, Indoor sports & Gymnasium hall, Canteen hall and Administrative block.

Equipment : All required lab equipment are available in the Institute to conduct B.E. Course in ECE, EEE & CSE discipline along with equipment required for Mechanical Workshop and Animation courses. The Institute has three Dell Power Edge servers and 430 computers for lab, internet and administrative requirement.

Software/Simulation Tools

For Electronics & Electrical Labs : CADENCE VLSI simulation tool, MATLAB, Xilinx ISE Foundation Tool, ComSim, MultiSim, Code Composer Studio, PCB Design Util Board, System View, Open IT Guru, SUSE-V10, Ethernal Network Analyzer, Network Simulator and Lab View.

For Computer Science Labs: AutoCAD, Rational Rose, Oracle and Visual Prolog

For Animation Lab: Coral Graphics, Maya, Adobe suit, Sound Forge, Toon Boom, Macro Media Flash and 3D Studio

For Management Studies: SYSTAT and Telly

Online e-Journals & e-books: IEEE, Science Direct, PROQUEST, ASTM digital Library

Sponsored Projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	Satellite Data Preparation using CartoSAT -1 and IRS – IV images August 2015 (Job work project in Remote Sensing Div.)	Dr. M.P. Punia	National Remote Sensing Centre, ISRO, Hyderabad	22.08.2012	75,29,192	Till August 2015

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion of the Project
1	Physical and Optical properties of aerosols over an urban site in northwestern India, Discipline: Climatology	PI: Dr Sunita Verma Co-PI: Dr. Swagata Payra,	DST, New Delhi, Govt. of India	July 2010	38. 956 Lakhs	February 2015
2.	Characterization of Land Cover using SARAL Altika Data" Discipline: Remote Sensing	Mr. B.K. Singh	EPSA, SAC (ISRO) , Govt. of India	October 2013	7.09 Lakhs	March 2015

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Three days workshop on "Animation Commercials" taken by Renowned Animator Mr. Vaibhav Parashar, Technical Head- 3D Dept. JSM Infosoft-Pvt. Ltd. Indore	Dr. Vibhuti Pandya	BIT Jaipur Campus	October 13-15, 2014
2	Workshop on "Open Source Tools in Bioinformatics"	Dr. P S Solanki	DBT, Govt. of India	January, 21-23 2015

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3.	Technical Entrepreneurship Development Programme	Abinash Pankaj	Dept of Science & Technology, Govt. of India	February 09 to March 21, 2015
4.	Entrepreneurship Develop- ment Programme	Abinash Pankaj	Dept of Science & Technology, Govt. of India	March 11 -27, 2015
5	One Week Summer Training Program 2015 (in house for students) on "Statistical Data Analysis and Image Processing with R and Python"	Dr. Vishwambhar Pathak, Dr. Shripal Vijayvargiya, and Mr. Subhash C. Gupta	BIT Jaipur Campus	May 11- 16, 2015
6	Summer Workshop on "Stop Motion Techniques"	Mr. Gautam Goswami and Mrs. Neerja Sharma	BIT Jaipur Campus	May 11-22, 2015
7	Summer School on MATLAB	Mr. Ankur Agrawal and Mr. Gaurav Jain	BIT Jaipur Campus	MAY 17- 31, 2015
8	Workshop on Ion Chromatog- raphy for Water and Environ- ment	Dr M. Krishna Mohan	Thermo Scientific, India	15th June 2015
9	Summer Training School on "Introduction to Applied Statistics"	Dr. Bhawna Agarwal	BIT Jaipur Campus	June 22-26, 2015.

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

S1. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Subhash Chand Gupta	Summer faculty Research Fellow Programme	IIT Delhi	QIP/CEP IIT Delhi	IIT Delhi	15/5/14 - 04/07/14
2	Anju Sharma	Faculty Development programme on Advanced Wireless Networks	TQUIP, HRD	Dept of CSE, MNIT Jaipur	MNIT, Jaipur	30 /06/14- 4 /07/14
3	Madan Mohan Agarwal	Faculty development Programmes on Advance Wireless Networks	TQUIP, HRD, Ministry, Govt. of India	MNIT, Jaipur	MNIT, Jaipur	30/06/14 - 4/07/ 14
4	Aparajita Pandey	Workshop on Computer Networking	NMEICT	IIT Bombay	Poornima College, Jaipur	30 /06/14- 5 /07/14
5	Alok Pandey	Workshop on Computer Networking	NMEICT	IIT Bombay	Poornima College, Jaipur	30/06/14 - 5 /07/14
6	Swagata Payra	The World Weather Open Science Congress (WWOSC)		World Meteorological Organization and Environment Canada	Montreal, Canada	16 /08/14- 21/08/14

7	Swagata Payra	Indian Aerosol Science and Technology Association (IASTA)		IASTA	BHU, Varanasi	6 /11/14- 8/11/14
8	Subhash Chand Gupta	Matlab & Simulink for Engineering Education	Mathworks India Pvt. Ltd.	Mathworks India Pvt. Ltd.	Hotel Four Square, Jaipur	21/11/14
9	SnehanshuShekhar	ISTE Main Workshop on Control Systems	National Mission on Education through ICT	IIT Kharagpur, MHRD	VIT, Jaipur	2/12/14- 12/12/14
10	Aparajita Pandey	Workshop On Control Systems	National Mission on Education through ICT	IIT Kharagpur, MHRD	VIT, Jaipur	2/12/14- 12/12/14
11	Alok Pandey	Workshop On Control Systems	National Mission on Education through ICT	IIT Kharagpur, MHRD	VIT, Jaipur	2/12/14- 12/12/14
12	Dheeraj Bhardwaj	Refresher course in Physical Sciences	UGC, ASC, University of Rajasthan	Academic Staff College	University of Rajasthan	15/12/14 -03/01/15
13	Ravindra Kumar	A Short Term Course on Structure and Characterization of Materials	TEQIP and IIT Kanpur	Indian Institute of Technology (IIT) Kanpur	IIT, Kanpur	22/12/14- 26/12/14
14	Vibhuti Pandya	7th Jaipur International Film Festival	JIFF	JIFF	Golcha Theater, Chouda Rasta, Jaipur	01/01/15- 05/01/15
15	Abinash Pankaj	102nd Indian Science Congress. ISCA-2015	Indian Science Congress Association, Kolkata	University of Mumbai	University of Mumbai	03/01/15- 07/01/15
16	Anirudh Sahni	102nd Indian Science Congress. ISC-2015	Indian Science Congress Association, Kolkata	University of Mumbai, Mumbai	University of Mumbai, Mumbai	03/01/15- 07/01/15
17	Anand Kumar Srivastava	102nd Indian Science Congress (ISC-2015)	Indian Science Congress Association	University of Mumbai	University of Mumbai	03/01/15- 07/01/15
18	R. K. Gothwal	Big Data and Cloud Computing Applications in Bioinformatics	DBT, GoI	Sri Venkateswara University, Tirupati	Sri Venkateswara University, Tirupati	03/02/15- 04/02/15
19	Kutubuddin Beg,	4th Bhartiya Vigyan Sammelan& Expo "Innovation in Science & Technology in Service of mankind"	Goa University & Kala Academy, Goa	Goa University & Kala Academy, Goa	Kala Academy, Goa	05/02/15- 08/02/15

20	Ankur Agarwal	International Conference on Advances in Computer Engineering and Applications	IEEE	IMS Engineering college, Ghaziabad	IMS Engineering college Ghaziabad	14/2/15- 15/2/15
21	Divya Prakash	National Symposium on Weather & Climate Extremes		Indian Meteorological Society	Chandigarh, Punjab	15/2/15- 18/2/15
22	Vibhuti Pandya	Refresher Course in Fine Arts on the theme "Art Education: Future Prospects"	UGC	Academic Staff College, University of Rajasthan	Rajasthan University	16/02/15 -07/03/15
23	P S Solanki	BTIS Annual Conventional	DBT, Govt of India	Sri Venkateswara University, Tirupati	Sri Venkateswara University, Tirupati	27/02/15- 28/02/15
24	P S Solanki	Workshop on Intellectual Property Rights on "Develop & Enhance your IP Skills"	UOR	University Innovation Cluster – Biotechnology (UIC-B)	CCT, University of Rajasthan	03/03/ 15
25	Alok K. Varshney	Intellectual Property Rights "Develop & enhance your IP skills"	University Innovation Cluster - Biotechnology	CCT, University of Rajasthan	CCT, UoR, Jaipur	03/03/15
26	R. K. Gothwal	Intellectual Property Rights		UIC-B, CCT	CCT, University of Rajasthan	03/03/15
27	Ravindra Kumar	68th Refresher Course in Experimental Physics	Indian Academy of Science	Central University of Rajasthan, Ajmer	Central University of Rajasthan, Ajmer	10/03/15- 25/03/15
28	Anand Kumar Srivastava	68th Refresher Course in Experimental Physics	Indian Academy of Sciences	Central University of Rajasthan, Ajmer	Deptt. of Physics, Central University of Rajasthan, Ajmer	10/03/15- 25/03/15
29	Jyoti Sharma	Signals Systems	IIT Bombay	IIT Bombay	Online	12/03/15- 13/05/15
30	Dheeraj Bhardwaj	One day workshop on Planar Antennas for Satellite & Wireless Communication Systems	Department of Physics, University of Rajasthan, Jaipur &IETE	University of Rajasthan, Jaipur	CCT, University of Rajasthan, Jaipur	31-03-15
31	Ranjana Agrawal	National Conference on 'Frontiers at the Chemistry- Allied Sciences Interface	Department of Chemistry	Centre for Advanced Studies , University of Rajasthan, Jaipur	University of Rajasthan, Jaipur	13/03/15- 14/03/15

32	SunitaVerma	8th PAC meeting of DST- Atmospheric Sciences		DST, Govt of India	K.L. University Andhra Pradesh	27/03/15- 28/03/15
33	Jyoti Sharma	STTP on Advanced Digital Devices and Systems	MNIT, Jaipur	MNIT, Jaipur	MNIT, Jaipur	28/03/15- 01/04/15
34	Jitendra Kumar Saini	STTP on Advanced Digital Devices and Systems	MNIT, Jaipur	MNIT, Jaipur	MNIT, Jaipur	28/03/15- 01/04/15
35	Vivek Gaur	Introduction to Design of Algorithms	MHRD	IIT Kharagpur	VIT (EAST), Jaipur	27/04/15 - 30/05/15
36	SunitaVerma	Web conference Modeling Air Quality from Global to Local Scales		Environmental Protection Agency, Boulder, CO USA	Web-conference	11/05/15 - 15/05/15
37	Gurminder Singh	National Instructional Workshop in Cryptology 2015	Cryptology Research Society of India (CRSI)	Cryptology Research Society of India (CRSI)	Himachal Pradesh University, Shimla	18/05/15 -22/05/15
38	P S Solanki	Orientation Programme	UGC	University of Rajasthan	HRDC University of Rajasthan	18.05.15 - 13.06.15
39	V. Pathak	Two Week ISTE STTP on "Design of Algorithms"	NMEICT of Min. Of HRD, GOI	IITKGP at remote center	VIT, Jaipur	25/05/15 -30/05/ 15
40	Dheeraj Bhardwaj	IEEE Indian Antenna Week 2015	TEQIP-II	Department of ECE, Government Engineering College, Ajmer, Rajasthen	Ananta Resort, Puskar, Ajmer	30/05/15 -03/06/15
41	Manish Soni	Third Training Workshop on "Climate Modelling: Simulations and Analysis'		Center of Atmospheric Sciences, IIT, Delhi	IIT Delhi	1/06/15 -12/06/15
42	Sunita Verma	Two-Week ISTE STTP on Environmental Studies	MHRD through	Indian Institute of Technology Bombay	VIT Jaipur	2/06/15 -12/06/15
43	Swagata Payra	Two-Week ISTE STTP on Environmental Studies	MHRD	Indian Institute of Technology Bombay	VIT Jaipur	2/06/15 -12/06/15
44	Mr Manish Soni	ICIMOD's SARAS workshop		ICIMOD	Pokhara, Nepal	7-9 June 2014
45	P S Solanki	Workshop on Ion Chromatography for Water and Environment	Thermo Scientific, India	Birla Institute of Scientific Research, Jaipur	Birla Auditorium, BISR, Jaipur	15/06/15

46	Alok K. Varshney	Ion Chromatography for Water and Environment	Thermo Scientific	Birla Institute of Scientific Research, Jaipur	Birla Auditorium, BISR, Jaipur	15/06/15
47	R. K. Gothwal	Mercury Free Plasma UV- Lamp for efficient Water Disinfection		CSIR-CEERI	CSIR-CEERI	26/06/15
48	P S Solanki	Vision Group Meet, Biotechnology-The Way Forward,	DST, Govt of Rajasthan	Dr.B. Lal Institute of Biotechnology, Jaipur,	Hotel Clarks Amer, Jaipur	27/06/15

Publications

International Journals

- 1. Sinha M., Kumar A., Framework for authenticate the message in vehicular ad-hoc network. International Journal of Advanced Research in IT and Engineering, July 2014, Vol. 3 No. 7, 9-19, ISSN: 2278-6244.
- 2. Gupta P. and Chandelkar K., Innovative Information retrieval Framework on dedicated cloud using Map Reduce & Hummingbird primitives. IJSER, Sep., 2014, Vol-5, Issue- 9, Page:668-671, ISSN 2229-5518, Springer
- 3. Gupta P. and Chandelkar K., Query Processing and Optimization in the Distributed Architecture using NoSql: a Banking System. IJACECT, Nov., 2014, Vol-3, Issue-4, ,25-28, ISSN 2319-2526, ISSN online, 278-5140, Springer
- 4. Dheeraj Bhardwaj, Gitansh Gulati, Manan Dixit and Komal Sharma, Gain and Bandwidth Enhancement of Rectangular Patch Antenna with Trapezoidal Slot for WIMAX Applications, International Journal of Engineering Research and Technology, November 2014, Volume 3, Issue 11,1072-1076, e-ISSN: 2278-018.
- 5. Pandey, Aparajita, Development of Privacy Protecting Identity Management System for E-Government in India, International Journal of Advanced Networking Applications, special issue, November 2014, pages 94-100, ISSN No.: 0975-0290
- 6. Snehanshu Shekhar, Anchal Sharma, Shreyans Jain and Sahil Tangri, A Cost Effective Communication Device Using Morse Code For Disabled People, International Journal for Scientific Research & Development, 2014, Vol. 2, Issue 10.
- 7. Srivastava A. K., Prasad G., Characteristics of parallel-plate and planar-surface dielectric barrier discharge at atmospheric pressure, journal of Electrostatic Elsevier, 2014,72, 140-146.
- 8. Rajni Agarwal, A brief review on Fluoride concentration in drinking water in MalpuraTehsil (Tonk, Rajsthan, India), Bassi Tehsil (Tonk, Rajsthan, India) and vicinity areas of Dausa District (Tonk, Rajsthan, India), International Journal of Green and Herbal Chemistry, 2014, 3(4), 1507 1512.
- 9. Yadav, H, Gothwal, R K, Solanki, P S, Nehra, S, Sinha-roy, S, Ghosh, P (2014) Isolation and Characterization of Thermo-tolerant Phosphate-Solubilizing Bacteria From a Phosphate Mine and Their Rock Phosphate Solubilizing Abilities, Geomicrobiology Journal, 2014, 32(6), 475-481

- 10. Yadav, H., Gothwal, R. K., Solanki, P. S., Nehra, S, Sinha-Roy, S. and Ghosh, P. Isolation and characterization of thermo-tolerant phosphate-solubilizing bacteria from a phosphate mine and their rock phosphate solubilizing abilities. Geomicrobiology Journal, 2014, 32 (6), 475-481.
- Meena, S., Gothwal, R. K., Mohan, M. K. and Ghosh, P. Production and purification of a 11. hyperthermostablechitinase from Brevibacillusformosus BISR-1 isolated from the Great Indian Desert soils. Extremophiles, 2014, 18 (2), 451-462.
- Meena, S., Gothwal, R. K., Saxena, J., Mohan, M. K. and Ghosh, P. Chitinase production by a newly 12. isolated thermotolerant Paenibacillus sp. BISR-047. Annals of Microbiology, 2014, 64 (2), 787-797.
- Soni, M., Payra, Swagata, Sinha, P., and Verma, S., A Performance Evaluation of WRF Model Using 13. Different Physical Parameterization Scheme during Winter Season over a Semi-Arid Region, India, International Journal of Earth and Atmospheric Science, 1.3 (2014): 104-114.
- Payra, Swagata, and Mohan, M., "Multirule Based Diagnostic Approach for the Fog Predictions Using WRF 14. Modelling Tool, Advances in Meteorology 2014 (2014). Article ID 456065, DOI: 10.1155/2014/456065.
- Mohan, M., and SwagataPayra, Aerosol Number Concentrations and Visibility during Dense Fog 15. over a Subtropical Urban Site, Journal of Nanomaterials 2014, Article ID 495457, 2014. DOI: 10.1155/2014/495457.
- Singh, G. and Makinde, O.D., Mixed convection slip flow with temperature jump along a moving plate in 16. the presence of free stream. Thermal Science, 2015, 19(1), 119-128.
- Vivek Gaur, Praveen Dhyani, O. P. Rishi., A GA-Tabu Based User Centric Approach for Discovering 17. Optimal Qos Composition, International Journal of Modern Education and Computer Science, 2015, vol.7, no.2, pp.56-62.
- Prateek Sharma & Dr. Praveen Dhyani, Auto Traffic Control in Metro Cities using Cloud Computing, 18. International Journal of Latest Trends in Engineering and Technology (IJLTET), July 2015, Volume 5 Issue 4, ISSN (O): 2278-621X-9024; ISSN (P): 2319-3778.
- Meena, S., Gothwal, R. K., Saxena, J., Nehra, S., Mohan, M. K. and Ghosh, P., Effect of metal ions and 19. chemical compounds on chitinase produced by a newly isolated thermotolerant Paenibacillus sp. BISR-047 and its shelf-life. Int. J. Curr. Microbiol. Appl. Sci., 2015, 4 (5), 882-891.
- 20. Yadav, H., Gothwal, R. K., Mathur, S. and Ghosh, P., Bioactivation of Jhamarkotra rock phosphate by a thermotolerant phosphate solubilizing bacterium Bacillus sp. BISR-HY63 isolated from phosphate mines. Archives of Agronomy and Soil Science, 2015, 61 (8), 1125-1135.
- Prakash, D., Verma, S., and Payra, Swagata., Estimate on changes in aerosols properties during dust 21. prevalence over Jaipur, India, International Journal of Applied Environmental Sciences. Volume 10, Number 3 (2015), pp. 1009-1018.
- 22. Verma, S., Prakash, D., Ricaud, P., Payra, Swagata., Attié, J. L., &Soni, M., A New Classification of Aerosol Sources and Types as Measured over Jaipur, India. Aerosol and Air Quality Research, 15(2015), 985-993.

International Proceedings

Sharma, J.; Ansari, M.S.; Sharma, J., "Current-Mode Electronically Tunable Resistor-less Universal 1. Filter in ±0.5V 32Nm CNFET," Devices, Circuits and Communications (ICDCCom), 2014 International Conference, pp.1-6, 12-13 Sept. 2014. doi: 10.1109/ICDCCom. 2014.7024710

- 2. Sharma, Jyoti; Ansari, Mohd.Samar; Sharma, Jankiballabh, "Electronically Tunable Resistor-less Universal Filter in ±0.5V 32nm CNFET," Electronic System Design (ISED), 2014 Fifth International Symposium on , vol., no., pp.206, 207, 15-17 Dec. 2014. doi: 10.1109/ISED. 2014.50
- 3. Payra, Swagata., Ricaud, P., Abida, R., Attié, J-L., Amraoui, L.El., and Rivière, E., Water Vapour Assimilation in the Upper Troposphere and Lower Stratosphere, 2014, Achilles Newsletter, pp.2 5.
- 4. Sunita Verma, Pramod Kumar, SwagataPayra, Divya Prakash and Brent Holben, Size-resolved aerosols concentration during extreme events over a site in Northwestern India, 16th IGAC conference, Boulder, USA, 10-11 June 2014
- 5. Manish Soni, Swagata Payra, Anikender Kumar, SunitaVerma, Divya Prakash, Validation of Aerosol retrieved Products obtained from AERONET with MODIS over an urban location, Jaipur, India, ICIMOD's SARAS workshop, 7-9 June, 2014, Pokhara, Nepal.
- 6. Sharma A., Sinha M. Self-adaptive Routing in Mobile Ad-hoc network using different variants of differential evolution. In Proceedings of International Conference on recent Cognizance In Wireless Communication & Image Processing-ICRCWIP-2014,16-17 Jan 2015
- Agarwal M. M., Govil M. C., Jhankal A. K., Probabilistic based Energy Efficient Dynamic route Discovery in MANETs. In Proceedings of International Conference on recent Cognizance In Wireless Communication & Image Processing-ICRCWIP-2014,16-17 Jan 2015
- 8. Dheeraj Bhardwaj, Aayush Dwivedi, Nidhi Jain, Komal Sharma, Design of Dual Resonator Broadband Multilayer Electromagnetic Coupled Microstrip antenna for X-Band Applications, In Proceedings of International Conference on recent Cognizance In Wireless Communication & Image Processing-ICRCWIP-2014,16-17 Jan 2015
- 9. Dheeraj Bhardwaj, Gitanshgulati, Lakshit Bhardwaj and Komal Sharma, Gain And Bandwidth Enhancement of Single Layered Slotted Triangular Shaped Microstrip Patch Antenna With Stub For WLAN Applications, In Proceedings of International Conference on recent Cognizance In Wireless Communication & Image Processing-ICRCWIP-2014, 16-17 Jan 2015

National Journals

- 1. Varshney, A. K., Mohan, M. K., Vidyarthi, A. S., Nigam, V. K. and Ghosh, P., Effect of nitrogen sources and C:N ratio on production of manganese peroxidase using Phanerochaetechrysosporium NCIM 1197. J. Pure Appl. Microbiol, 2014, 8, 481-487.
- 2. Payra, Swagata., Prakash, D., Soni, M., and Verma, S., Size-Segregated aerosol Particles: an observational study at urban location in Northwestern India, Vayumandal, 2014 02/2014 38(3-4):66-70.

National Proceedings

- 1. Dheeraj Bhardwaj, Gitansh Gulati, Manan Dixit and Komal Sharma, "On Radiation from Rectangular Patch Antenna with Trapezoidal Slot for WIMAX Application" presented in IETE National Conference on Future Trends in Communication Technologies, Manipal University, August 2014, Jaipur, India
- 2. Agarwal, M. M., Techniques used to conserve Energy in MANETs, In I4th National Conference on Computational and Mathematical Sciences (COMPUTATIA-IV-2014), Vivekananda Institute of Technology East, Jagatpura, Jaipur, November 25-26, 2014. (Invited Talk)

- 3. Payra, S., Soni, M., Verma, S., Prakash, D., AOT from MODIS and ground based remote sensing observations over northwestern India, IASTA, BHU, Varanasi, 6-8 Nov 2014.
- Gothwal, R. K., Meena, S., Sharma, Y. K., Nehra, S., Solanki, P. S., Mohan, M.K. and Ghosh, P., A hyper-thermostablechitinase from Paenibacillus sp. BISR-047: Its characterization and biocontrol potential. In proceedings of the 55th Annual Conference of AMI and National Conference on Empowering Mankind with Microbial Technologies, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, 2014.
- Yadav H., Gothwal R. K., Nehra S., Solanki P. S. and Ghosh P., Isolation and characterization of thermotolerant bacterial strains from Jhamarkotra phosphate mines producing alkaline phosphatase. In proceedings of the 55th Annual Conference of AMI and National Conference on Empowering Mankind with Microbial Technologies, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, 2014.
- 6. Meena, S., Gothwal, R. K., Saxena, J., Nehra, S., Solanki, P. S., Mohan, M.K. and Ghosh, P., Chitinase production from Paenibacillus sp. BISR-047 utilizing seafood waste as substrate under solid-state fermentation. In proceedings of the National Conference on Bioprocess Technology: Basics, Advancements & Challenges, Jaipur National University, Jaipur, 2014.
- 7. Srivastava A. K. and Prasad G., Observation of self-organized square lattice pattern in planar surface barrier discharge plasma at atmospheric pressure. In Proceedings of 102nd Indian Science Congress, ISCA-2015, Mumbai, India, 3-7 January 2015.
- 8. Abinash Pankaj, KC Sharma, A Literature Review on Optimization of MIG Welding Process Parameter, In Proceedings of 102nd Indian Science Congress, ISCA-2015, Mumbai, India, 3-7 January 2015.
- AbinashPankaj, KC Sharma, Application of Soft Computing Based Optimization Techniques for Welding Processes: A Literature Review"In Proceedings of 102nd Indian Science Congress, ISCA-2015, Mumbai, India, 3-7 January 2015.
- **10.** Sahni, A., Characterisation of Leachate from Municipal Solid Waste (MSW) Landfilling Site of Jaipur-India. In Proceedings of 102nd Indian Science Congress, ISCA-2015, Mumbai, India, 3-7 January 2015.
- **11.** Sahni, A., Physico-Chemical Characteristics of Ramsinghpura Pond Rewari, Haryana. In Proceedings of 102nd Indian Science Congress, ISCA-2015, Mumbai, India, 3-7 January 2015.
- 12. Dheeraj Bhardwaj, Gitansh Gulati, Srishti Saraswat and Komal Sharma, "Stacked Y-slotted Modified Rectangular Patch Antenna for WLAN and WiMAX", presented in IEEE Indian Antenna Week 2015, 30-05-15 to 03-06-15, Pushkar, Rajasthan.
- 13. Varshney, A. K., Mohan, M. K. and Ghosh, P., Optimization of laccase production by Pycnoporussanguineus NCIM 1085 using agri-residual wastes. In Proceedings of the National Symposium on Mycological Research-Emerging Trends, Applications and Prospects and 41st Annual Meeting of Mycological Society of India, Department of Botany, Punjabi University, Patiala, 2015.
- 14. Solanki, P. S., Gothwal, R. K., Mohan, M. K., Kothari, S. L., and Ghosh, P., Comparative analysis of SSEs in extremophiles using CASSP. In: proceedings of the XXVI Annual Bioinformatics Coordinators Meeting with focal theme of Big Data and Cloud Computing Applications in Bioinformatics at Sri Venkateswara University, Tirupati, Andhra Pradesh, 2015.

Book

Edited Book

 Nehra, S., Gothwal, R. K. and Ghosh, P., Biodiversity in India: Assessment, Scope and Conservation, Lambert Academic Publishing (LAP), Germany, 2014.

Chapter(s) in Edited Book

- Ranvijay Kumar, Kaushlendra Sharma, Rakesh Kumar, Psyllium, Natural and Grafted. In Encyclopaedia of Biomedical Polymers and Polymeric Biomaterials, (ed. Munmaya Mishra), Taylor & Francis, 2015, DOI: 10.1081/E-EBPP-120050015.
- 3. Gothwal, R. K. Nehra, S. and Ghosh, P., Biodiversity conservation: An Indian agenda for the millennium. In: Biodiversity in India: Assessment, Scope and Conservation, Lambert Academic Publishing (LAP), Germany, 2014, pp. 323-340.
- 4. Nehra, S., Gothwal, R. K., Chandra, S., Meena, P., Mohan, M. K. and Ghosh, P., Role of microbes in bioremediation. In: Applied Microbiology (ed.) Nehra, S., Pointer Publication, Jaipur, 2014, pp. 232-248.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. Abhinav Dinesh	Honored as distinguished academician in Rajasthan by the Education Minister of Rajasthan in the function organized on the occasion of Teacher's day	organized by Lion's International Club	On 5 th September, 2014
2	Dr. Vibhuti Pandya	Designated as Jury Member of Jaipur International Film Festival	JIFF, Jaipur	Feb. 2015
3	Dr. Abhinav Dinesh	Invited as Chief Guest & key note speaker in the inaugural function of International conference on Intelligent Computing, Communication & Sciences	Jointly organized by Institution of Engineers & Regional College of Education Research & Technology	April 10, 2015

Students' Activities

Sl. No.	Name of the Activity	Students' co coordinator, if any	Date/Duration
1	Cavorts:	Deepak Kashyap, BE VII	October 28-30, 2014
	(Sport Fest)	Gaurav Gupta, BE VII	
	An event to develop	Vijay Panwar, MBA III	
	Physical, Mental,	Amit Sharma, MCA III	
	Competitive and Team	Kanwaldeep Signh, IMBA VII	
	Spirit strength. All	Amit Kumar, BE VII	
	these significantly	Deepak Agarwal, BE VII	
	contribute in	Ayush Choudhary, BE V	
	professional career.	Shreyans Jain, BE V	

2.	Vibrations:	Dinesh Dadlani, BE VIII	February 10-12,
	(Cultural & Art Fest)	Sakshi Seth, BE VIII	2015
	An expression of	Anmol Sharma, BE VIII	
	vibrating enthusiasm	Anurag Soni, BE VIII	
	and artistic talent of	Shashank Shekhar, BE VIII	
	BIT Jaipur Campus students.	Tawaana Homavazir, BE VIII	
		Kshitij Khandelwal, MCA IV	
		Mohit Sharma,MBA IV	
3	TechVibes:	Kshitij Talwar, BE VIII	March 17-18, 2015
	(Technical Fest)	Arpit Rai, BE VIII	
	An event	Nikhil Jain, BE VIII	
	that stimulate minds to	Abhinav Rai, BE VIII	
	innovate and	Nikhil Kumar Gupta, BE VIII	
	practically realize	Anshul Vyas, BE VIII	
	knowledge and ideas.	Prateek Gupta, BE VIII	
	The rich technical	Rajat Seth, MCA IV	
	legacy of BIT gets new		
	expressions in		
	TechVibes.		

Other Important Information

Board of Studies(UG/PG)

- I) Dr. Roopali Sharma, Associate Professor (Management Studies) was Member of BOS for Department of humanities & social sciences at Suresh Gyan Vihar University, Jaipur
- II). Dr. Vibhuti Pandya, Asst. Professor (Animation & Multimedia) was a member of BOS of following
 - B.Sc. Animation & Multimedia (UG Programme of BIT Mesra)
 - Master in Animation Design Programme (PG Programme of BIT Mesra)
 - B.Sc. Multimedia & Animation Hons. Programme, IIS University, Jaipur
- Dr. M. P. Punia, Sr. Sc. Officer (Remote Sensing) was a member of BOS for remote sensing programmes in following
 - MDS University, Ajmer
 - IIS University, Jaipur
 - Banasthali University, Rajasthan

Academic Committee for the centre

Following are members of Academic Committee at Jaipur Centre

- 1. Dr. Abhinav Dinesh, Director
- 2. Dr. S.K. Sharma, Professor, applied Chemistry
- 3. Dr. Madhavi Sinha, Associate Professor, Computer Science Engineering
- 4. Dr. Roopali Sharma, Associate Professor, Management Studies

Eminent persons visited our campus during the period

Sl. No.	Name of the person	Purpose
1.	Dr. Ashok Panagariya, Eminent Neurologist, Padma Shree Awardee, Ex Vice Chancellor Rajasthan University of Health Sciences	Chief Guest in the Annual function of the Institute
2.	Mr. Somesh Gupta Distinguished Technocrat , Head of Jaipur Unit of Infosys Ltd	Guest of honour in the Annual function of the Institute
3.	Dr. S. Pal President IETE and distinguished Space Scientist	Chief guests in induction programme of BE students

KOLKATA



BIT Kolkata Campus was established in 1995. This Centre offers academic programmes in Computer Science and Business Management, Bioinformatics and Electronics and communication, Mathematics & Computing. The Centre, located in the southern part of the City, is well connected with the rest of Kolkata. The extensive 30,000 sq feet premises of the Centre includes spacious computer laboratories with dedicated server rooms, several lecture rooms, a seminar hall, and a well-equipped library with books, journals and subscription to various e-journals. Faculty members and the student community have free access to online journals through ACM, IEEE, H.W. Wilson database and SIAM. The centre also has rich collection of E books of World Scientific, IET. The whole Centre is networked and Internet facilities are provided through a 3 Mbps and 10 Mbps dedicated line.

The computer laboratory has 230+ modern HP, Dell and Compaq machines, out of which 100+ machines are with the latest architectural features like Core-2 Duo processors, and TFT monitors. The network is well-protected through the latest Cyberoam 1000A firewall manager, and Quick Heal anti-virus software for each and every machine. The latest software ranges from C, Turbo C++, Java, Visual Studio. Net, Microsoft Office suite, Oracle 10g, Photoshop 9, Adobe Writer, Macromedia Flash 8, Dreamweaver 8 and Rational Rose, Matlab and other high end software required for Electronics lab. We also MOU with Texas Instruments and one lab has been set up with their support.

The campus has a placement cell to guide students about their career plan, to train them and to facilitate their placement in reputed organizations. The focus of the Placement Cell is to train and equip students through regular Competency Development Programmes (CDP) in such a way that they are gladly accepted by the best organizations & industry. The cell operates in close guidance with the Placement Cell of our main campus at Mesra, Ranchi.

Some of the recent placements for BBA/BCA batches were in reputed companies like: CTS, TCS, Satyam, Wipro Technologies, Reliance etc. Students of MCA secured campus placements in reputed organizations such

as Aricent, CTS,TCS, HP, Sapient, Tech Mahindra, I-Gate, Direct I,Oracle, Electra Design Automation, Birla Soft, IBM, Accenture, Tech Mahindra, Wipro, Head strong, Infosys, RS Software etc. All students are also encouraged to do in house projects in their fifth/sixth semester under the guidance of the faculty members.

The faculty at the Centre have rich teaching, research experience in Digital Image Processing, Mobile Computing, Distributed and Parallel Computing, Agile Programming, Data Warehousing and Mining, Industrial Marketing, Corporate Finance, HR and Organizational Behaviour, Entrepreneurship, and Industrial Relations. Many of them are also actively involved in training and development programmes. Guest lectures are also delivered regularly by eminent faculties from IIT Kharagpur, Jadavpur University, Calcutta University, Burdwan University, B. E. College (Shibpur), University of Calcutta, WBUT etc.

Programme offered: 1. MTech (CS) 2. ME (Wireless Communication) 3. MTech (Biotechnology) 4. MCA 5. MBA 6. BBA 7. BCA

Sponsored Projects

Ongoing Projects

Sl. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	"Development of Dynamic GIS enabled Forward Cost Modelling (FCM) of Land Reclamation, Control and Monitoring of Acid Mine Drainage problems in the context of continuation and expansion of the Coal Mining in Assam – an (ICT) based Environmental Management Approach" Project Code – CIL/R&D/4/07/2013	PI : Prof. Abhijit Kundu Co PI : Dr. R. T. Goswami	Coal India Limited/ CMPDI	01.02.2013	Rupees 95.68 lakh	2 years

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Two-day Workshop on "Data Analysis using MATLAB"	Dr. Ambar Dutta, Prof Rohit Kamal Chatterjee	N/A	June 9 – 10, 2015
2.	MATLAB (With emphasis on Communication Tool)	Dr. Bharat Gupta(Coordinator) & Dr. Sanchita Ghosh (Co- Coordinator)	-	02/03/2015
3.	Management Development Programme	Dr. R T Goswami, Resource Person	NIPM	January 2015 and June 2015
4.	Management Development Programme	Dr. Sraboni Dutta, Resource Person	NIPM	January 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1.	Dr Soumendra Bhattacharjee	A National Seminar on "E – Content 2014"		Informatics Publishing Limited, Bangalore.	Hotel Gateway, Kolkata.	17th September, 2014.
2.	Dr Soumendra Bhattacharjee	An International Seminar on "Corporate Social Responsibility and Sustainability"		Indian Commerce Association	KIIT University, Bhubaneswar	27th – 29th December, 2014
3.	Dr Soumendra Bhattacharjee	A National Conference on "Excellence in HRD for Sustainable Growth (NCHRD – 2015)"	ICSSR,	Faculty of Commerce, Banaras Hindu University.	Banaras Hindu University (BHU)	14th - 15th February, 2015.
4.	Dr Soumendra Bhattacharjee	A Workshop on "Train the Trainer"		Indian Society for Training and Development (ISTD), Kolkata Chapter.	Hotel Senator, Kolkata	26th February, 2015.
5.	Dr Soumendra Bhattacharjee	A One Day National Symposium on "Overcoming Challenges for Sustainable Corporate Development".	UGC	St. Xavier's College, Kolkata.	St. Xavier's College, Kolkata.	21st March, 2015.
6	Dr Soumendra Bhattacharjee	57th Orientation Programme	UGC	UGC – HRDC, Jadavpur University.	UGC – HRDC, Jadavpur University, Salt Lake Campus, Kolkata.	15th June – 11th July, 2015.
7.	S. Chaudhuri, Dr R T Goswami, Dr. Ambar Dutta	2014 4th International Conference On Emerging Areas In Information Technology (EAIT 2014)	-	Computer Society Of India; Technical Sponsors: IEEE TC-S&P+TC-CLS; ISI; BIT	Indian Statistical Institute	December 19-21, 2014
8.	S. Chaudhuri	57th Orientation Programme	UGC	UGC-HRDC, Jadavpur University	Jadavpur University Salt Lake Campus	15.06.2015- 11.07.2015
9.	Srabani Mukhopadhyaya	Research Promotional Workshop: Indo-German Workshop on Algorithms	Indian Statistical Institute and DFG, Germany	Indian Statistical Institute, Kolkata	Indian Statistical Institute, 203, B T. Road, Kolkata 700108	9/3/2015 – 13/3/2015
10.	Dr. Ambar Dutta	57th Orientation Programme	UGC	Jadavpur University, HRDC	Jadavpur University, Salt Lake Campus	June 15, 2015 – July 11, 2015

11.	Sanchita Ghosh		NITTTR, Kolkata	NITTTR, Kolkata	NITTTR, Kolkata	16/03/15 to 27/03/15
12.		Workshop on Microarray data analysis		The Biome- A life Science portal		2nd August- 3rd August, 2014

Publications

International Journals

- Piyali Bandyopadhyay and Ambar Dutta, "A Comparative Study on Color Based Approaches to Content Based Image Retrieval", International Journal of Emerging Engineering Research and Technology, Vol. 2, Iss. 5, pp 193 – 203, 2014 (ISSN: 2349-4395)
- Ambar Dutta, "Local Information Based Approach to Corner Detection", International Journal of Application or Innovation in Engineering & Management, Vol. 4, No. 1, pp 186 – 190, 2015 (ISSN: 2321-8169)
- 3. Ambar Dutta, "Efficient Fuzzy Set Theoretic Approach to Image Corner Matching", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 3 Iss. 2, pp 508 511, 2015 (ISSN: 2321-8169)
- 4. Ambar Dutta, "Fuzzy Entropy Based Approach to Image Thresholding", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 3, 348 351, 2015 (ISSN: 2277 128X)
- 5. Chinmay Chakraborty, Bharat Gupta, Soumya K Ghosh, "Mobile metadata assisted community database of chronic wound images", Elsevier Journal of Wound Medicine 6 (2014) 34–42.
- 6. Suraj Kumar Saw, Sdk Verma, Bharat Gupta and Vijay Nath, "An Ultra Low Power Fast Locking CMOS Phase Locked Loop for Wireless Communication", IJCA Proceedings on International Conference on Computing, Communication and Sensor Network CCSN 2014(1):32-36, June 2015.
- 7. Dutta, S. & Munshi, D., Product Responsibility Reporting: A Sustainable Marketing Practice for Enhancing Performance in Indian Manufacturing Firms International Journal of Latest Trends in Engineering and Technology 2015 pp. 29-35, ISSN No.: 2278-621X
- 8. Goswami, A. & Dutta, S., ICT in Women Entrepreneurial Firms A Literature Review IOSR Journal in Business and Management, Vol 17(2), February 2015 pp. 38-41 ISSN No.: 2278-487X
- 9. Banerjee T.K., Roy S. & Dey S. (2014). A GIS Solution for an Integrated Underground Coal Mine Management: A Conceptual Framework. Journal of Management Policies and Practises. 2(2). 129-143.
- 10. Ghosh Sanchita, On Hydromagnetic Channel Flow of an Oldroyd-B Fluid Induced by Tooth Pulses in a Rotating System, Applied and Computational Mathematics, Vol 4 Issue 1., 2014
- 11. Ghosh Sanchita, Call Admission Control Using Bio-geography Based Optimization, International Journal of Applied Evolutionary Computation Volume 6(1), pp 49-71, 2015.(Info Sci)
- 12. Ghosh Sanchita, A Novel Heuristics to Reconstruction of an Object from Multiple Orthogonal Projections, International Journal of Engineering Science & Research Technology. Vol 3(8), pp. 32-37 2014.

- Ghosh Sanchita, On Hydromagnetic Channel Flow of an Oldroyd-B Fluid induced by Pulses of 13. Longitudinal Impulses, Journal of Advances in Mathematics Vol. 9, No 2 pp.1902-1915, 2014.
- Ghosh Sanchita, On Hydromagnetic Flow of an Oldroyd-B Fluid near a Pulsating Plate in a Rotating 14. System, International Journal of Mathematical and Computer Modelling, Vol. 19(1) pp. 1124-1141 2014.

International Proceedings

- Bishakha Roy and Rohit K. Chatterjee, "A Thresholding Approach for Text Extraction in Handwritten 1. Historical Documents Using Adaptive Morphology", pp 198, 2014 Fourth International Conference on Emerging Applications of Information Technology (EAIT 2014), ISBN: 978-1-4799-4272-5.
- 2. Goswami, A. & Dutta, S., Intensity of Information and Communication Technology (ICT) Usage by Women Entrepreneurs in SME Sector: A Study of Alipurduar District of West Bengal .In Proceedings of Eleventh Biennial Conference on Entrepreneurship, Entrepreneurship Development Institute of India, Ahmedabad February 18-20, 2015. ISBN No.: 978-93-80574-76-9
- 3. Dutta, S. & Munshi, D. Examining Corporate Sustainability Efforts and Performance in Indian Manufacturing Firms. In Proceedings of International Conference on Global Performance Challenges, Building and Sustaining Competitiveness, Amity University, Gurgaon September 11-12, 2014. ISBN No. 978-93-83842-74-2
- Sandeep Sandilya, Archita Kishore, Bharat Gupta, "Outage analysis of cellular communication under 4. cooperative scenario", 6th International Conference on Electrical, Electronics Communication, Robotics And Instrumentation Engineering (ICEECIE 2015), 31st May, 2015, Raipur, India.
- Suraj Kumar Saw, SDK Verma, B. Gupta, Vijay Nath "An ultra low power fast locking CMOS phased 5. locked loop for wireless communication" in 3rd international conference on computing communication and sensor network: vol. 5 issue-II, pp. 259-263, 9-11 Feb. 2015.

National Journals

1. Bhattacharjee, S., Extra – Mural Welfare Facilities With Reference to Nagaon Paper Mill in Assam under Hindustan Paper Corporation Limited. B.R. International Publication House, June 2015, Vol 06, 114 – 120.

National Proceedings

- 1. Bhattacharjee, S. and Singha, S.S., Corporate Social Responsibility in the Paper Industry of Assam. In Proceedings of the 67th All India Commerce Conference, KIIT University, Bhubaneswar, 2014.
- 2. Bhattacharjee, S., Extra - Mural Welfare Facilities Vis - a - Vis Nagaon Paper Mill in Assam under Hindustan Paper Corporation Limited. In Proceedings of the National Conference on Human Resource Development (NCHRD - 2015) on Excellence in HRD for Sustainable Growth, Faculty of Commerce, Banaras Hindu University, Varanasi, 2015.
- 3. Bhattacharjee, S. and Mukherjee, S., A Descriptive Study on Green Marketing Trends in India. In Proceedings of the National Symposium on Overcoming Challenges for Sustainable Corporate Development, Department of Commerce and Management, St. Xavier's College, Kolkata, 2015.
- 4. Kundu A, Designing Landslide Hazard Zone (LHZ) Scale along the National Highways in North-Eastern India by integrating Infinite Slope Stability method with Remote Sensing and GIS, Regional Conference on

- "Geoinformatics for Early Warning of Disasters with special emphasis on NE Region" 18-19 September, 2014, by Indian Society of Geomatics, at North Eastern Hill University (NEHU), Shillong5.
- 5. Subrata Jana and Rohit Kamal Chatterjee, "Automatic Segmentation of Different Brain Tissue from MR Image" pp 20, CALCON 2014: A National Conference on Electrical, Electronics, and Computer Engineering. Nov. 07-08, 2014, IEEE Kolkata Section.
- S.L. Maskara, Bharat Gupta, "Recent Trends in Wireless Communication", in Seminar on "Recent Trends In Wireless Communication- (RTWC-2015)" on 05th February, 2015, organized by Future Institute of Engineering and Management, Kolkata.
- 7. Chinmay Chakraborty, Bharat Gupta, Soumya K Ghosh, "Telewound Monitoring Through Smart Phone", International Conference on Medical Imaging, m-Health, and Emerging Communication System, MEDCOM-14, 07-08, November, 2014.
- 8. S.L. Maskara, Bharat Gupta, A.K Ray, "Semaphore to Social Networking & Vacuum Tube to VLSI", Presented in ALL INDIA STUDENT CONGRESS-2014, GUJRAT, 06-07 October, 2014
- 9. S.L. Maskara, Bharat Gupta, "Trends in Engineering Research Focus on Wireless and Mobile Communications", Workshop on Emerging Research Trends in Engineering, Ahmedabad Management Association (AMA), Ahmedabad 19-20 JULY 2014.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. R. T. Goswami	Chairman	Computer Society of India, Kolkata Chapter	2014-15, One (1) year
2	Dr. Ambar Dutta	Treasurer	Computer Society of India, Kolkata Chapter	2014-16, two (1) Year
3	Prof. Subho Chaudhuri &Dr. Ambar Dutta	Joint Editor and MC member	Computer Society of India, Kolkata Chapter	2014-2015
4.	Srabani Mukhopadhyaya	Significant Contribution Award, 2013-14	Computer Society of India	December, 2014
5.	Dr. R T Goswami	Finance Chair	4th International Conference On Emerging Areas In Information Technology (EAIT 2014)	December 2014
6.	Prof. S. Chaudhuri	Tutorial Chair	4th International Conference On Emerging Areas In Information Technology (EAIT 2014)	December 2014
7.	Dr R T Goswami	Board of Studies Member	National Institute of Personnel Management	2014-2016

Students' Activities

SI. No.	Name of the Activity	Students' co ordinator, if any	Date/Duration
1.	Organising & managing the 'Happy Street Programme' at Park Street Kolkata to promote noiseless and pollution free world.	Dr. Bharat Gupta, Dr. Sanchita Ghosh, Dr. Sandip Kumar Sengupta, Sri Soumendra Bhattacharjee	March 1st. and 8th 2015
2	MBA Students went for for industrial visit at Durgapur Steel Plant November 2014	Dr. Sraboni Dutta &Dr. T K Banerjee	November 2014
3	Chetan Debraj Memorial Inter College Cricket Tournament	Prof. Ranadeep Mukherjee and Prof. Khalid Ashraf	February 2015

Other Important Information

Workshop on Climate Change and Sustainable Livelihood Date - 16-05-2015

Venue : Amitava Dey Memorial Seminar Hall, Department of Computer Science and Engineering, Jadavpur University

Organisers: Birla Institute of Technology Mesra, Kolkata Campus. Centre for Distributed Computing, Department of Computer Science and Engineering, Jadavpur University. Self Help Group Promotional Forum along. Coordinator: Prof. Abhijit Kundu and Dr. R T Goswami

Participants: Government officials, students and teachers of Schools, Colleges & Universities, NGO representatives, media persons, community members and individuals like Prof. Kalyan Rudra, Chairman, WBPCB (West Bengal Pollution Control Board), Smt. Choten D Lama, IAS, CEO & SMD, WBSRLM (West Bengal State Rural Livelihood Mission) and Mr. Chintamoni Mahapatra, Concern World Wide. Mr. Amit Choudhury, Special Secretary, Department of Planning, Govt. of West Bengal. Professor Maitri Bhattacharya, Director, Jagadish Bose National Science Talent Search (JBNSTS), Kolkata. Professor Ajay Roy, Director, IIEST, Shibpur. Mr. Dilip Ghosh, IAS (retd), member of West Bengal Finance Commission.

LALPUR



The BIT Extension Centre at Lalpur, Ranchi started initially with part-time postgraduate M.E. courses in the disciplines of Mechanical, Civil, Electrical and Electronics Engineering. The city being an important industrial and commercial hub, the primary objective of the centre was the benefit of officers working in various Ranchi based Public Sector Undertakings, Private industries, Banks, etc, who wished to upgrade their educational qualifications. The MBA, MCA, BCA and BBA courses were started subsequently with laboratory classes being conducted on Sundays and holidays at the Mesra campus. Gradually the campus evolved into a full fledged self sufficient institution.

Currently the Lalpur Extension Centre has over 1800 students on its rolls of which almost 560 are postgraduate students.

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Amrita Priyam	ISTE,STTP Introduction To Design of Algorithm	MHRD	IIT, Kharagpur Under The National Mission On Education Through ICT(MHRD)	Remote Centre Bit, Mesra	27/04/15 -24/05/15 1 week (online activity) 25/05/15-30/05/15 (Physical partici- pation at remote centre Bit, Mesra)
2	Dr. Pranab Kumar	IX International Conference on Finance and Business Management	Society of Management and Technical Professional, New Delhi	Society of Management and Technical Professional, New Delhi	University Dept. of Commerce & Business Management, Ranchi University, Ranchi	July 11-12, 2014

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3	J. Pal	ISTE, STTP Introduction To Design of Algorithm	MHRD	IIT, Kharagpur Under The National Mission On Education Through ICT(MHRD)	Remote Centre Bit, Mesra	27/04/15 -24/05/15 1 week (online activity) 25/05/15 -30/05/15 (Phisical partici- pation at remote centre Bit, Mesra)
4	Dr. P S Bishnu	Summer school	Human Resource development of India.	Ranchi University, Ranchi, Jharkhand	HRD center, Ranchi	18th May, 2015 - 07th June, 2015
5	Dr. Abhaya Ranjan Srivastava	Consumer Be- haviour: Role of Market Research	AICTE	VGSOM, IIT Kharagpur	VGSOM, IIT Kharagpur	May 4-8, 2015
		e-Buzz the X-factor	Self	GLA University, Mathura	GLA University, Mathura	Mar 20-21, 2015
		IX International Conference on Finance & Business Man- agement	BIT Lalpur	Society of Technical & Management Professionals	Ranchi University	July 11-12, 2014
6	Onima Tigga	ISTE,STTP Introduction To Design of Algorithm	MHRD	IIT, Kharagpur Under The National Mission On Education Through ICT(MHRD)	Remote Centre Bit, Mesra	27/04/15 -24/05/15 1 week (online activity) 25/05/15 -30/05/15 (Physical participation at remote centre Bit, Mesra)
7	Dr Mili Dutta	56th annual conference of Indian Society of Labour Economics	ISLE	Institute of Human Development &Department of Management, BIT Mesra	Department of Management, BIT, Mesra	18-20th December
		National Seminar on corporate Social Responsibility need of the hour	UGC	Department of Management Studies, Institute of Science & Management, Ranchi,	Department of Management Studies,Institute of Science & Management, Ranchi,	February 6-7,2015
		Global Summit on Corporate Social Responsibility	IIM,Raipur	IIM Raipur & IICA,New Delhi	IICA,New Delhi	15-16th May,2015

8	Dr. S. Anis. Haider	Emergence of corporate social responsibility as a tool of social welfare in India	AICTE	ISM, Pundag	Ranchi	Feb'2015
		FDP programme on contemporary HR trends and practices	AICTE	BIT Mesra	Ranchi	April'2015

Publications

International Journals

- 1. Bishnu P S, and Bhattacherjee V, Software cost estimation based on modified K-Modes clustering Algorithm, Natural Computing, SpringerLink, 10.1007/s11047-015-9492-7, ISSN: 1567-7818 (Print) 1572-9796 (Online).
- 2. Biswas P and Bishnu P S, Application of Data Mining and CRM in Banking Sector Medical Insurance, International Journal of Innovative Research in Computer and Communication Engineering Vol. 3, Issue 1, pp. 38-46, 2015, ISSN 23209801.
- 3. Pal J. and Bhattacherje V., Fuzzy Rule Based Classifier for Software Quality Data, Journal of Theoretical and Applied Information Technology(JATIT), Feb, 2015, Vol 72,No 1,58-66.
- 4. Pal J. and Bhattacherje V., Hierarchical Cluster Generation for Software Quality: A Comparative Approach, International Journal of Engineering and Technology (IJET) Aug-Sep 2014, Vol 6, No 4, 1827-1839.
- 5. Mahato Madhuri and Kumar Pranab "Organistional Role Stress Empirical Evidences from India during Economic and Political Resentment"; Purushartha, Vol. VII, No.2, Sept. 14 Feb. 15. Pp 30-39
- 6. Mahato Madhuri and Kumar Pranab "Life Satisfaction What does it Really mean to Indians", Purushartha Journal, Vol. VII, No. 1, March 14 Aug. 14. Pp 79-87
- 7. Mahato Madhuri and Kumar Pranab "Emotions A Conceptual & Mythological Perspective"; Udaan: The International Journal of Management Research, Vol.2, Issue 2. July-Dec. 2014 pp 12-24
- 8. Mahato Madhuri and Kumar Pranab "Impact of Emotional Labor on Organizational Role Stress A Study in the Services Sector in India"; Procedia Economics & Finance; Vol. 11, July, 2014; pp 110-121
- 9. Mahato Madhuri and Kumar Pranab "Examining The role of Technological Factors in Faculty Knowledge Sharing Behavior"; Global Journal for Research Analysis; Vol. III, Issue: VII, July, 2014. Pp 22-23

International Proceedings

1. Manju Bhagat, Mili Dutta , Nitesh Bhatia,, "Nitty-gritty of Industrial Relations getting feeble: A Case of Nokia, Sriperumbudur Plant" published in conference proceedings at 56th annual conference of Indian Society of Labour Economics at Birla Institute of Technology, Mesra, 18-20th December, p.p 218

National Journals

1. Biswas P and Bishnu P S, Modern health insurance selection in Indian market using Data Mining approach, National journal of The IUJ journal of management, vol. 2, Issue 1, pp. 72-77, 2014. ISSN 2347-5080

2. Bhattacherjee A, Bhattacherjee V, and Bishnu P S, Framework of quality models for effective prediction of fail-safe shaft design, Jharkhand journal of development and management studies, vo. 13, no. 2, pp. 6469-6477, June 2015. ISSN 0973-8444

National Proceedings

1. Biswas P and Bishnu P S, Surveying sensors based human robot interaction with data mining approach, National seminar on Robotics: applications and challenges, The ICFAI university, Jharkhand. pp. 29-33, 15th September, 2014.

Book:

Chapter(s) in Edited Book

1. Srivastava, A. R. and Singh, S., An empirical study of Preference factors of organised retail. In New Approach in Human Resource and Marketing Management (ed. Prakash, V and Sah, R. K.), Bharti Publications, New Delhi, 2014, pp.420-429.

NOIDA



Birla Institute of Technology, NOIDA Campus is one of the leading Technical Institutions in the National Capital Region in the State of Uttar Pradesh. Established in the year 1998, the Institution has set bench marks every year, and grown into an Institution of Excellence in Technical Education. Located at the entrance of NOIDA, BIT NOIDA Campus has become a household name for its excellence in Discipline, Teaching, Training and Placement. Today, BIT NOIDA has total student strength of over 800, who are mentored by more than 75 Faculty Members.

Its rich academic tradition has always attracted the most talented students who later on went on to make important contributions to the society.

Vision: "The BIT NOIDA Campus will stimulate both the hearts and minds of scholars, empower them to contribute to the welfare of society at large; train them to adopt themselves to the changing needs of the economy; advocate them for cultural leadership to ensure peace, harmony and prosperity for all."

Birla Institute of Technology, NOIDA Campus aims to become an Institution of excellence in imparting quality Outcome Based Education that empowers the young generation with Knowledge, Skills, Research, Aptitude and Ethical values to solve Contemporary Challenging Problems.

Facilities Provided

- In order to nurture effective learning among students, all class rooms are well equipped with AC and LCD Projectors.
- The Institute has a well-stocked library with more than 5000 volumes on various subjects along
 with latest editions of prescribed books, several periodicals, journals and high value books to give
 the students a winning edge.

- The center believes in holistic personality development of students providing ample space for their recreational activities like - Canteen, Auditorium, Table Tennis space, and badminton, a centralised college computer center and fully equipped labs.
- The center is well equipped with e-journals (Emerald, ProQuest ABI Complete, Pro Quest Dissertations & Thesis, Science Direct), and research software like MATLAB and dedicated internet facility for the research scholars.

Department of Computer Science

The Department of Computer Science and Engineering offers various UG & PG programme such as 2 yrs. M.Tech (CS) full time, 3 yrs. MCA and 3 yrs. BCA with the curriculum specifically designed to reflect the depth and breadth of latest technologies, research and innovations in computer science field. The Department provides extensive computing resources for research and education. In order to build the intellectual capital of researchers, the Department also offers Doctoral programme in Computer Science.

Department of Management

BIT NOIDA Management Department offers 3 yrs. BBA programme with two semesters in each year and 2yrs. MBA Full time programme with both functional and sectoral specialisation. The Department also offers Doctoral programme in Management on both full time and part time basis with mandatory residential requirement of 6 months in campus.

The curricula of all the credit based flexible programmes are carefully reviewed, updated, upgraded, diversified and in pace with the needs of the industrial scenario of this country, with the help of BIT main campus.

Department of Animation & Multimedia

The Department offers 3 years B.Sc. Degree programme in Animation and Multimedia which was upgraded to 4 years B.Sc (Hons.) from the year 2011. In the year 2009 the PG curriculum began in the Department. The NOIDA campus is capable of offering Ph.D supervision in domains related to Animation & Multimedia.

BIT NOIDA Campus amongst other facilities, also has a studio for film shooting with proper lighting and chroma facilities. This studio is often used for professional advertisements or short film shoots also.

Sponsored projects

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount	Duration of the Project
1	Green Buildings in India: A study of Issues, Challenges & Prospects for Sustainable Development	Dr. Meenakshi Sharma	UGC	April 1,2013	Rs. 6,54,600/-	2 Years
2	Smart use of Web Analytics and Data Mining technique for improving online Information Retrieval.	Dr Shruti Kohli	UGC	04/01/13	Rs. 10,40,000	3 years

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1.	Excel Training Programme	Dr. Vandna Sharma	-	5 days on dates: 20 Sep 2014, 11 Oct 2014, 12 Oct 2014, 1 Nov 2014 & 2 Nov 2014.
2.	Workshop on Simulation Game Using Simventure	Dr. Arun Mittal	-	16 Sep 2014

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Munish Makkad	NBCC National Construction Conclave	NBCC	NBCC	SCOPE Complex, New Delhi	23 June' 2015
2	Dr. Satya Prakash Singh	Refresher Course (21Days)	UGC	Kurukshetra University, Kurukshetra	Dept. Of Computer Science & Applications	22 June - 11 July 2015
3	Dr. Munish Makkad	The Future of Management Education in India	AIMA	AIMA	India International Centre (IIC), New Delhi	31 March – 1 April'2015
4	Dr. Shruti Kohli	The 9th International Conference for Internet Technology and Secured Transactions (ICITST-2014), 8-10 December 2014, London, UK.	BIT & self	IEEE UK/RI	London	8-10 Dec' 14
5	Charu Wahi	STC on Wireless Technology	BIT	NITTTR	Chandigarh	17-21 Nov'2014
6	Dr. Munish Makkad	Strengthening The Indian Financial Sector: Innovation, Strategies, Risk Management.	Dept. of Financial Studies, Univ. of Delhi	Dept. of Financial Studies, Univ. of Delhi	Hotel Shangrila, Janpath	27 Sep 2014

Publications

International Journals

- Ms. Smitha Jha, Dr. D. K. Mallick, Dr. D. K. Suri, Nature Inspired Algorithm for Dependent Task Scheduling in Grid System. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 8 (2015) pp. 18935-18944(Scopus Index).
- 2. Pramila Joshi, "Cloud Architecture of Big Data", "International Journal of Engineering and Computer Science" (IJECS), Online www.ijecs.in, ISSN No: 2319-7242, Volume 4, Issue 6, June 2015.

- 3. Esha Raizada, Dr. S. P. Singh, "Banchmarking and Testing of Hybrid ABC and GA Using Feed Forward Newral Network for TSP", International Journal of Science and Research (IJSR), ISSN (Online):2319-7064, Vol. 4, Issue 6, June 2015.
- 4. Fathayab, Pramila Joshi, "A Review of Business Intelligence Survey on Cloud Computing", International Journal of Scientific Research, Volume IV, Issue V, ISSN No: 2277-8179, May 2015, Impact Factor: 3.2416.
- 5. Neetika Sharma, Dr. S. P. Singh, "Tjam Supotter: Real Time Android App for Road Traffic Management", International Journal of Advanced Research in Computer Science, Vol. 6, No. 2, March-April 2015.
- Neetika Sharma, Dr. S. P. Singh, "Reality Mining and Proposal for Real Time Approach Towards Road Traffic Managment", International Journal of Advanced Research in Computer Science, Vol. 6, No. 2, March-April 2015.
- 7. Pramila Joshi, "Analysing Big Data Tools and Deployment Platforms", "International Journal of Multidisciplinary Approach & Studies" (IJMAS), ISI Impact factor of 2014: 2.593, ISSN NO: 2348-537X, Vol II, Issue II, Mar-Apr 2015.
- 8. Johari, S. and Wahi, C., "Quality of Service based Routing in Mobile Ad Hoc Network- A Review", International Journal of Scientific & Engineering Research, Volume 6, Issue 3, March 2015 (ISSN 2229-5518).
- Gaurav, D. and Wahi, C., "Blackhole Prevention Algorithms for AODV in Mobile Ad Hoc Network- A Review", International Journal of Scientific & Engineering Research, Volume 6, Issue 3, March 2015 (ISSN 2229-5518).
- 10. SonaliGangoli, S. P Singh, "Proposed Methodology for Database Privacy in an Existing System Using Hyppocratic Database", National Journal of Advance in Computer Science and Information technology, print ISSN:2393-9907, online ISSN:2393-9915, Vol. 2 Number 3, January-March, 2015 pp.258-260.
- 11. Shiva Suryanarayana Ch., Dr. Satya Praksh Singh, "Software Cost Estimation Techniques Using Soft Computing", International Journals of Allied Practice, Research and Review, ISSN 2350-1294, Vol. II, p.n. 42-52, 2015.
- 12. Mishra Pankaj, Singh Satya Prakash, Tripathi Anurag, "A Hybrid Approach for Image Superresolution of Low Depth of Field Images", Published in Signal Processing and Communication(ICSC), 2015, International Conference at NOIDA. Print ISBN 978-4799-6760-5 Publisher IEEE.
- 13. Arti Rana, S. P Singh, RachnaSoni, Ashish Jolly, "Increamental Software Version Release Planing for Adeptive Maintenance", Published in International Journal of Software Engineering and its Applications, vol. 9 No. 8(2015), pp. 217-228.
- Sharma, V. and Gupta, N. An exploratory study of Employee Engagement and its linkage to Organizational Citizenship Behaviour and Organizational Performance. International Journal of Applied Business and Economic Research, (Scopus Indexed), 2015, 13, 3, 1279-1300, ISSN: 0972-7302.
- 15. Srivastava N., Sharma V., and Chakladher B., A study on Reporting Standards in Carbon Credit Accounting. International Journal of Scientific Research, 2015, 4, 2, 408-411, ISSN No: 10.15373.
- 16. Sharma M. and Rai P., Barriers to implement Green Building Strategies in Indian Real Estate. International Research Journal of Commerce, Business and Social Sciences, 2015, 3, 10(II), 48, ISSN: 2277-9310.

- 17. Kudeshia, C., Mittal, A., Social Media: An Eccentric Business Communication Tool for the 21st Century Marketers, International Journal of Online Marketing, 2015, 5 (2), 37-57.
- 18. S. P Singh, Arti Rana, Rachna Soni, Ashish Jolly, 'Categorization of Software Release risks and Its Abatement Strategy' International Journal of Engineering and Applications, 2014, 7 1039-1044, Published Online November 2014.
- 19. Kohli, Shruti, Ankit Gupta. "Information Retrieval: A Fuzzy Perspective." International Journal of Applied Research on Information Technology and Computing 5.1 (2014): 14-24 DOI: 10.5958/j.0975-8089.5.1.002 ISSN:0975-8070(Print)/0975-8089(Online).
- 20. Sikdar, P. and Makkad M., Shift from Basel II to Basel III A Reporting Perspective on the Indian Banking Sector. International Journal of Computational Engineering & Management (IJCEM), (2014), 17, 1, ISSN: 2230-7893.
- 21. Sharma M. and Amitabh A., Counterfeit Products: Stumbling Block for Emerging Indian Luxury Market. International Journal of Business, Management & Social Sciences, 2014, 4, 1, 103, ISSN: 2249-7463.
- 22. Naik, Y. N., and Bisht, M., Structural Equation Model for Effectiveness of Technical Managers in Information Technology Industry. International Journal of Supply Chain Management, 2014, 3, 3, 172-183. ISSN online: 2050-7399, ISSN Print: 2051-3771.
- 23. Kudeshia, C., Sikdar, P., Mittal, A., Leveraging the Benefits of Fan Page: From like to Love International Journal of Business Data Communications and Networking, 2014, 10 (3), 17-45.
- 24. Shruti Kohli, Ankit Gupta." Fuzzy Information Retrieval in WWW: A Survey." International Journal of Advanced Intelligence Paradigm, Vol. 6, no.4, pp. 272-311. Inderscience (Switzerland), 2014.
- 25. Shruti Kohli and Himani Singal, "A methodological approach for Quantizing Trust from Human Behavior for Content-Driven Websites", In Proceedings of Special Issue, Cyber Security, Privacy and Forensics for Complex Systems, International Journal of Sensors, Wireless communications and Control (IJSWCC), Bentham Publishers, ISSN: 2210-3287, Vol. 5, Issue 1,2014.

International Proceedings

- 1. Sharma M. and Rai P. A Study of Challenges to Successful Implementation of Green Building Strategy in India for Sustainable Development. In Proceedings of International Conference on Telecommunication Technology and Management (ICTTM-2015) IIT Delhi, ISBN: 9780992680053. Refreed Conference. Published by Emerald Group Publishing (India) Private Limited., 11th -12th April 2015.
- 2. Sharma M. and Singh A., Branding of Green IT for Sustainable IT Companies. In Proceedings of International Conference on Telecommunication Technology and Management (ICTTM-2015) IIT Delhi, ISBN: 9780992680053. Refreed Conference. Published by Emerald Group Publishing (India) Private Limited. 11th -12th April 2015.
- 3. Sharma V. and Jangbahadur U., An Exploratory Study on Sustainable Organisational Performance Indicators in India. In Proceedings of GD Goenka University International Conference on Management (GDGU ICON-2015), 19 -20 Feb 2015.
- 4. Saxena B. and Wahi C., "Hindi Digits Recognition System on Speech data collected in different natural noise environments", International Conference on Signal and Image Processing (SIGPRO 2015), 14-15 Feb'2015, Bangalore.

- 5. Ankit Gupta, Shruti Kohli."An Analytical Study of Ordered Weighted Geometric Averaging Operator on Web data set as a MCDM problem." In Proceedings of Fourth International Conference on Soft Computing for Problem Solving (pp. 585-597). Springer India (2015). (Publishes as a book chapter in Springer's book series: "Advances in Intelligent Systems and Computing", Vol. 335).
- 6. Shruti Kohli and Ankit Gupta," Analysis of Aggregation operators in Regression analysis", In Proceedings International Conference on Cognitive Computing and Information Processing (CCIP 2015).
- 7. Sharma, M and Chattopadhyay, D. Prospects of Renewable Energy in India: An Analysis from Climate Change Perspective. In Proceedings of International Conference on Energy, Environment, Material and Safety, School of Engineering, Cochin University of Science and Technology, Dec 10th -12th, 2014.
- 8. Shruti Kohli, Ankit Gupta. "Modeling Anonymous Human Behavior using Social Media",\proceedings of The 9th International Conference for Internet Technology and Secured Transactions (ICITST-2014), 8-10 December 2014, London, UK.
- 9. Shruti Kohli and Himani Singal, "Data Analysis with R", Proceedings of the 2014 IEEE/ACM 7th International Conference on Utility and Cloud Computing, held during 8-11 December, 2014 in London, U.K.
- 10. Naik, Y. N., and Bisht, M. Identification of the underlying Factor Structure of Technical Manager Effectiveness in Supply Chain Industry. In Proceedings of the 3rd International Conference on Supply Chain Management, November 2014. (ISSN 0970-2555).
- 11. Shruti Kohli, Ankit Gupta. "An Ordered Weighted Operator Approach towards Web Usage Mining", proceedings of 5th International Conference on Computer And Communication Technology (ICCCT-14) held at Motilal Nehru National Institute of Technology, Allahabad on 26-28 September 2014.
- 12. Himani Singal, Shruti Kohli and Amit Kumar Sharma, "Web Analytics: State-of-Art and Literature Assessment", Proceedings of IEEE Confluence 2014, held during 25-26 September, 2014 in NOIDA, India.
- 13. Himani Singal and Shruti Kohli, "Conceptual model for obfuscated TRUST induced from Web Analytics data for content-driven websites", Proceedings of IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), held during 24-27 September, 2014 in NOIDA, India.
- 14. Sharma, M. and Chattopadhyay, D. Power Sector Development in India: An Analysis from climate change perspective. In Proceedings of International Conference on Green Technology for Environmental Pollution Prevention and Control, Department of Chemical Engineering, NIIT Tiruchirappalli, 27th -29th September, 2014.
- Sikdar P., Kumar A. and Makkad M. Ethical Orientation in Management Education Evidence from the Indian National Capital Region. In Proceedings of International Conference on Research and Sustainable Business (ICRSB) 2014, Department of Management Studies, Indian Institute of Technology (IIT), Roorkee (India) (ISBN: 978-93-83842-19-3) pp. 156-166.
- 16. Kohli, Shruti, and Ankit Gupta. "A Survey on Web Information Retrieval Inside Fuzzy Framework." In Proceedings of the Third International Conference on Soft Computing for Problem Solving, pp. 433-445. Springer India, 2014. (Published as a Book Chapter in Springer's Book Series: "Advances in Intelligent and Soft Computing" Vol 259.).

National Proceedings

1. Shruti Kohli, "An Intelligence Based Clustering Approach For Optimization of Web Elements" paper presented at 2015 International Conference on Information Technology, during February 2-3, 2015, in Singapore.

Book:

Single Authored

1. Shruti Kohli, Course book: "Internet Programming" (2014) Course book: "Web Technology" (2012, 2013) (Vikas Publications)

Edited Books

- Kudeshia, C. and Mittal, A., The journey of Chumbak: from mail to mall leveraging social media networks for on-going dialogue with customers, Emerging Markets Case Studies Collection, 2015, Emerald Insight.
- 2. Jangbahadur U. and Sharma, V. and An Exploratory Study on Measurement of Sustainable Organisational Performance Indicators in India. In Changing landscape of World Economies: Need for alternative growth models, Excel India Publishers, 2015, pp.581-600.
- 3. Sharma, M. and Amitabh, A., Green Marketing and Sustainable Development-A Case of TERI University. In Innovative Energy Technology Systems and Environmental Concerns: A Sustainable Approach, Research India Publications, 2014, ISBN: 978-93-84144-81-4, pp.123-130

Chapter(s) in Edited Book

1. Shruti Kohli, "Developing and Validating Fuzzy Based Trust Measures for Online Medical Diagnosis and Symptoms Analysis", book titled "Fuzzy Expert Systems for Disease Diagnosis", IGI Global Publications (2014).

Students' Activities

Sl. No.	Name of the Activity	Students' co-ordinator, if any	Date/Duration
1	A Guest Lecture on 'FEMA ACT 1999, SEBI ACT 1992 & Depositories ACT 1996' by Mr. Rajan Jauhar, Sr. Advocate, Delhi Supreme Court		8 & 13 April 2015 1.40-4.10 PM
2	Career Preparation session on "Business Etiquettes & Grooming" by Col. Sandesh Sharma		24 March 2015 2.40-4.40 PM
3	Guest Lecture on "Retail Marketing in India- Scenario & Challenges" by Maj. J. CPande, Chief Manager, Allahabad Bank		20 March 2015 1.30-3.30 PM

4	Career Preparation session on Personal Interview Preparation for CAT for BBA students by CATALYST-Redefining JK Test-prep	12 March 2015 12.20-1.20 PM
5	Career Preparation session on "Career with Start-ups" by TBIONLINE.COM	12 March 2015
6	Team Building Exercise by Dr. N.K. Kakkar, Retrd. Prof. Delhi University	25 Feb 2014
7	A Guest Lecture on 'Trends in Insurance Sector by Mr. S. K. Vij, Deputy Manager, New India Insurance Company.	12 Feb 2015 9.50 AM - 12.20 NOON
8	A Guest Lecture on 'Emerging Trends, Challenges & Opportunities in Banking Sector by MAJ. J. C. Pande, Chief Manager, Allahabad Bank	6th Feb 2015-09-18 10.00 AM-12 Noon
9	Career Preparation session on "MBA as a Career option after BBA"	4 Feb 2015 12.00- 1.45 PM
10	Career Preparation session on "Career after MBA in Govt. Sector"	3 Feb 2015 2.30 PM - 3.45 PM
11	STOCKMIND seminar by ICICI Securities Ltd. for PG students	22 Jan 2015
12	Team Building Exercise by Dr. N.K. Kakkar, Retrd. Prof. Delhi University	11 Nov 2014
13	Industrial Visit to Coca Cola, Sahibabad	25 Sep 2014
14	Guest Lecture on "Project Management-HOOVER DAM Project in USA" by Dr. Sarvesh Swarup, Formerly Deputy DG., Ministry of Commerce and Industry, GOI	22 Sep 2014 1.50 PM- 4.00 PM
15	GD/PI sessions	11 Sep 2014 onwards Every Tuesday 3.20-4.20 PM
16	Demonstration of Global experts 4U Products like SimVenture, BSG-online, Mark Strat	19 Aug 2014 1.10 PM – 1.40 PM

Academic Committee

Dr. Munish Makkad, Professor & Director 1. Ex Officio Chairman

2. Dr. Asha Prasad, Professor Ph.D Coordinator (Management)

3. Dr. Vandana Sharma, Associate Professor Member (Management)

4. Dr. Ila Sahay, Associate Professor - Member (Comp. Sc.)

5. Dr. Shruti Kohli, Assistant Professor - Member (Comp. Sc.)

6. Dr. Nawal Kishor, Professor, SOMS, IGNOU - External Member (Management)

7. Dr. Rajiv Nag, Chairman, CyberQ Consulting - External Member (Computer Sc.)

Other Important Information

a. The campus organized Cultural Fest, A BIT Xtreme during 30-31 March'2015. The inauguration saw the colourful balloons being let off by teachers, students and staff together. It was a colourful display of talents in music, dance and drama. Various competitions were held like Rangoli making, face painting, Best Out of Waste, Ad-MAD, JAM sessions etc.

- b. Faculty team comprising of Ms. Charu Wahi, Mr. Niket Mehta and Mr. Manoj escorted, supervised and coordinated student's participation in BITOTSAV'2015 at Ranchi.
- c. BIT NOIDA successfully organised its annual Sports week 2015 in the month of January. All the students participated with full enthusiasm in the events: Cricket, Football, Volleyball, Badminton, Table tennis etc. The winners were awarded with trophies, medals and certificates in their respective events in the award ceremony.

PATNA



Birla Institute of Technology, Mesra, Ranchi was founded by the industrialist and philanthropist Late Shri B.M. Birla in 1955. Birla Institute of Technology Patna Campus came into existence in the year 2006 along with the initiative of Government of Bihar with a vision to provide quality education to the students of Bihar who wish to pursue their career in technical education. By far, BITP is one of the best equipped, technically sound professional colleges in the state of Bihar. It has fully networked campus. The infrastructure includes 3.25 lacs sq. feet of academic space. At its establishment year, Institute was offering Bachelor of Engineering Degree in 3 branches namely Computer Science, Electrical & Electronics and Electronics & Communications. From the year 2007, Civil, Mechanical, Production and Information Technology are being offered. However in last one decade BITP has successfully marked its presence in the field of Architecture and Management by commencing the courses like Bachelor of Architecture, Masters of Business Administration, Bachelor of Business Administration, and Bachelor of Computer Applications. BITP also offers Ph.D. Programme in Science, Engineering and Management.

BITP seeks to attract the best students from diverse backgrounds and offer them an excellent educational experience. It offers more flexibility and choice to the students in the academic programmes, an inviting and stimulating ambience for education and research, a rich suite of extra- and co-curricular activities, personality development, life-skills and career planning will be a part of the holistic development.

BITP strives to achieve global standards and excellence in Teaching, Research and Consultancy by creating an environment in which the faculty and students share a passion for creating, sharing and applying knowledge to continuously improve the quality of education.

Central Library:

The Learning Resource Centre is the nerve centre of BIT Patna. The Institute takes pride in its state-of-the- art library infrastructure and resources. The full air-conditioned Lab., well furnished and spacious reading room forms part of it. The library is entirely devoted to the academic needs of the students and faculty.

It offers a wide range of books and over national & international journals, periodicals on the subject areas & other research materials. Important local, regional and national dailies in English and Hindi are also an important part of Newspaper section of the library.

Library is well equipped with LIBSYS software and having 33,881 books (all bar-coded). The facility for video conferencing is established and E- library is being developed.

Online Resources:

EBSCO Art & Architecture (complete), IEEE, ASCE and ASME are accessible in E-library.

Print Journals : 39

Magazines : 18

Computer Laboratory:

The heart of the Institute is the large Computer Centre with Four Computer Labs with a DELL Server connected to LAN to support multi user software. At present, the students are using System Software's like C++, MSDN, ORACLE, Rational Rose & Application Software like Auto CAD 2009, Auto CAD Raster Design, Auto CAD Electrical, Auto CAD Inventor, MATLAB, STAAD PRO, FEKO, Multisim, Comsim, Xiling, Active HDL etc. Computers are on LAN and managed with Cyberoam security for Internet.

Training & Placement Cell:

The Training & Placement office at Patna is well equipped and designed to smoothly handle and support the Campus placement procedure at every stage. Arrangements for Interviews, Pre-placement talks, Group discussions and Tests are handled by the T&P Cell staff and Student placement coordinators. We are equipped with the following facilities to aid the process:

- Four well furnished centrally air-conditioned cabins for Interviews and one room for Group discussions.
- The Training and Placement Cell round the year organizes Training & Career Development Programs for the students of BIT Patna who are aspiring to enter the corporate world and introduces them to the prospective employers according to their aspirations and background.
- The large number of students of 2011 batch of BE course has been successfully placed in reputed companies. The top most recruiters visited the main campus BIT Mesra as well as our campus last year were TCS, Wipro, Shapoorji Pallonji, IBM, Ericsson, Cognizant, Infosys, MARUTI Suzuki, Sapient, Verizon, Bharti Infratel, Excide, Mahindra Comviva etc.
- The Seventh batch of BE course (2012 batch) are already going through the placement process.

Research & Development:

BIT Patna is committed to make concerted efforts towards conducting long-term research in frontier areas. Faculty members conduct research projects in thrust areas of Science, Engineering and Management. The Institute has ongoing academic and research activities with the aid of UGC, AICTE, Govt. of Bihar etc. in order to keep pace with expanding frontiers of knowledge and global developments.

IEEE Student's Chapter:

IEEE's student's chapter at BITP was established with the core purpose to foster technological innovation and excellence for the benefit of humanity. IEEE is essential to the global technical community and to technical professionals everywhere, and is universally recognized for the contributions of technology and of technical professionals in improving global conditions.

Sports Activities:

BITP harbours students who are recognised for their athletic skills at national and state level. Not only does BITP provide the best training facilities for sports activities, but also induces the spirit of sportsmanship in the students. Sports here become one of the most cherished activity for the students. Though a cliché, but still very true is the fact that a healthy body hosts a healthy mind. BITP provides the students with many opportunities to demonstrate their talent on a platform much wider than their immediate peer circle in the form of events like the INTER COLLEGE SPORTS MEET, ANNUAL ATHLETIC MEET and various inter/intra state sports meet. We regularly organize Cricket, Football, Soccer, Lawn- Tennis and Basketball Tournaments. BITP Cricket Team won Social Premier League Tournament 2015.

National Social Services (NSS):

NSS is a programme organized by the NSS group of BIT-P for the uplift and empowerment of the underprivileged children belonging to 8-14 age groups. Around 15 NGOs like Kilkari, Umeed, Pratham and Diksha Foundation took part in the programme.

Hundreds of underprivileged children from slums and government schools got a chance to showcase their talent on the stage of BIT-Patna campus on Saturday. Children of government schools along with the slum children took part in dance, drama, poem and speech reciting events on the inaugural function a two-day programme organized by NSS BIT-Patna.

Aim behind organizing this event is to give a fair chance to the underprivileged kids of the government schools. They will learn and become more confident in presenting their talent in public after performing on this kind of platform.

Sponsored Projects:

Ongoing Projects

SI. No.	Project Title	PI / Co- PI/ Collaborator, if any	Funding Agency	Date of Sanction	Sanctioned Amount (In Rs.)	Duration of the Project
1	Energy Audit of 11 KV Sadakat Ashram feeder	Dept. of EEE	BREDA, Patna (Bihar Renewable Energy Development Agency)	03/12/2012	4.75 Lacs	2 Years

Seminar / Conferences / Short – term Courses Conducted by the Department

SI. No.	Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Android Application Development Workshop	Mr. Sanjay Kumar (Dept. of EEE)	Self, through IEEE chapter BIT, Patna	10th - 16th March 2015
2	"PATHWAY TO WORK" - Enhancing Interviewing Techniques in Students.	Dr. Vijay Agrawal (Dept. of Mgt.)	BIT Patna	19th - 20th March 2015
3	ESDM Workshop	Mr. Shahiruddin (Dept. of ECE)	DeitY	29th January 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

S1. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Kanhaiya Lal (Dept. of CSE)	Short Term Course	BIT	NIT Bhopal	NIT Bhopal	26 th June 2015
2	Dr. Kanhaiya Lal (Dept. of CSE)	Short Term Course	BIT	ISM Dhanbad	ISM Dhanbad	12 th June 2015
3	Dr. Sweta (Dept. of Mgt.)	71st Orientation Programme	UGC	ASC Patna University	Patna	12 th May to 8 th June 2015
4	Ms. Shradha Kishore (Dept. of EEE)	Advanced optimization techniques	Self	Electrical Engineering	Malaviya National Institute of Technology Jaipur	18 th – 22 nd May 2015
5	Mr. Mayank Singh (Dept. of EEE)	Advanced optimization techniques	Self	Electrical Engineering	Malaviya Na- tional Institute of Technology Jaipur	18 th – 22 nd May 2015
6	Dr. Sweta (Dept. of Mgt.)	Contemporary HR trends and Practices	AICTE	BIT-Mesra Dept. of Mgmt.	Ranchi	6 th – 19 th April 2015

7	Mr. Shahiruddin (Dept. of ECE)	2015 International conference on signal processing and communication	BIT	Jaypee Institute of Information Technology	NOIDA	16 th - 18 th March 2015
8	Dr. Rakesh Kumar (Dept. of Chemistry)	MACRO 2015	UGC Project	Jadhavpur University	Calcutta	23th - 26 th January 2015
9	Dr. Sweta (Dept. of Mgt.)	56 th Annual Conference of Indian Society of Labour Economics	ISLE	BIT-Mesra Dept. of Mgt.	Ranchi	18 th – 20 th December 2014
10	Ms. Shradha Kishore (Dept. of EEE)	ISTE Workshop on Control System	Self	IIT Kharagpur, BIT, Mesra	BIT Mesra, Ranchi	2 nd – 12 th December 2014
11	Mr. Mayank Singh (Dept. of EEE)	ISTE Workshop on Control System	Self	IIT Kharagpur, BIT, Mesra	BIT Mesra, Ranchi	2 nd – 12 th December 2014
12	Dr. Vijay Agrawal (Dept. of Mgt.)	HR Conclave on Transforming Human Capital – The Way Forward	National HRD Network, Patna Chapter	CII -Bihar	Patna	19 th July 2014
13	Dr. Kaushlendra Sharma (Dept. of Chemistry)	International Workshop on Futuristic materials, Characterization, Properties and Application	Institute	Department of Physics, M. J. P. Rohilkhand University, Bareily, UP.	Bareily	17 th – 22 nd July 2014

Publications

National Journals

1. Agrawal Vijay., Gupta S.L. 2014. Imperative for Quality and Effective Teaching in Indian B-schools: A perspective. Wisdom Publications New Delhi ISBN 978-93-81505-71-7, pp. 9-15.

National Proceedings

1. Shahiruddin; Singh, V.; Jayaswal, P.; Khaklari, R.; Singh, D.K., Design and characteristics of negative dispersion of two layered five ring photonic crystal HYPERLINK "http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7150672&newsearch=true&queryText=shahiruddin"fiber. In Proceedings of the Signal Processing and Communication (ICSC) IEEE Conference Publications, NOIDA, 2015

International Journals

- 1. Agrawal Vijay, Gupta Nupur (2014) "Impact of Economic and Demographic Factors on Stock Market Investments in India: A Triangulated Study" in International Journal of South Asian Journal Management (SAJM) ISSN: 0971-5428 Vol. 21, Issue No. 04, October-December-2014, pp.72-99
- 2. MitraPradip Kumar, Agrawal Vijay and Ghosh Aurobindo (2015), "Exploring the Factors for Effective Sustainability Reporting: A Survey of Indian Chemical Industry", in International Journal of Asian Social Science; Vol. 11, No. 3; 2015 ISSN 1911-2017 E-ISSN 1911-2025 Published by Canadian Center of Science and Education, pp.197-211.

- 3. Agrawal Vijay, Mitra Pradip Kumar (2015), Sustainability Reporting Framework for Indian Chemical Industry- A Simplified Approach Surveyed through Industry Participants", in Academy of Taiwan Business Management Review; Vol. 11, No. 1; 2015 ISSN: 1813-0534 E-ISSN 1911-2025 Published by Cabelll's Directory of publishing opportunity
- 4. Kumar R., Moyo D., Anandjiwala R.D., Viscose fabric bonded with soy protein isolate by foam application method. Journal of Industrial Textiles 2015, 44, 849-867.
- 5. Sweta, Jha Prabhkar (2014), Sustainable Competitive Advantage Through Strategic Integration of HRM with Business Strategies, IJELLH; ISSN 2321-7065, Vol. II, Issue IV,pp. 324-327.
- 6. Lal Kanhaiya ,Implementation of Emotional Intelligence in a machine" pp 05-18, Jan-Feb 2015 IOSR Journal of Computer Engineering (IOSR-JCE), Volume 17, Issue 1, Ver. VI (Jan Feb. 2015)
- 7. Lal Kanhaiya, A New Concept on Thinking Machines (Cyber Personality, ,pp.25-29, January 2015 International Journal of Computer System, Volume 02, Issue 01, January, 2015.
- 8. A. N. Ghazali, Mohd Sazid and S. Pal, "A Compact Broadband Balun based UWB-BPF With Minimum Insertion Loss and Sharp Selectivity," Electronics Letters, Vol. 51, issue 15, pp. 1174 -1175, July 2015.
- 9. A. N. Ghazali and S. Pal, "Planar UWB Filter with Multiple Notched band and Stop band with Improved Rejection Level," Frequenz, Vol. 69, Issue 5-6, pp. 207–218, March 2015.

International Proceedings

- 1. Kumar R., Polyfurfuryl Alcohol A Waste From Sugarcane Bagasse As A Construction Material. by., In International Conference on Construction Materials and Structures 2014, 24-26 September, 2014, Johannesburg, South Africa (Page 461-465).
- 2. Kumar Upendra, Effect of Honeypots on polymorphic worms in Computer Network, in International Conference in Comp.Sc & Engg-Central University, Bihar Feb 8-9, 2014, Narosa Publication:978-81-8487-391-7: pp 123-128.August, 2014.
- 3. Kumar Upendra, A Dynamic Model on Compute Virus, in ICRAMCS Central University, Bihar May 28-30, 2015 by World Scientific Publication

Students' Activities

Sl. No.	Name of the Activity	Students' coordinator, if any	Date/Duration
1	Industrial Tour/Plant Visit	Mr. Ayush Anshumani	An Industrial Tour to BTPS, Barauni
		Ms. Krittika Patel	was conducted on 14th March 2015
2	Abhivyakti 2014	Ms. Khushboo	10th – 12th August 2014

Other Important Information

- Electromagnetic Simulation Software Tool, FEKO (5 user licence) has recently been added to Dept. Of ECE.
- A team of 9 BITP students participated in ASME Human Powered Vehicle challenge in January 2105. They stood in top 10 among 58 participating Institutions. The project was funded by DST, Govt. of Bihar.
- SAE conduct annual SUPRA competition, which is renowned worldwide. BITP team has been selected
 to participate in its 2015 version. Earlier in 2014, the team was also appreciated for their performance in
 the same event.



MUSCAT





BIT Off Shore Campus, Muscat was established in the year 2001 in academic partnership with Birla Institute of Technology, Ranchi, India. WCAS has constantly been rated among the top private colleges in Sultanate of Oman and has also been acknowledged abroad. The college has been included in "The Guide to Excellence: Global Education and Opportunities 2013" of Cambridge University Students' Union UK and also listed in Socrates Almanac of World Universities and Colleges, Oxford, UK in 2013.

The research activities in various Departments have been initiated and laboratories are being modified to carry out meaningful R&D activities. The Research Council (TRC), Oman has accepted our college as a research centre and the hub has been created in the college to interact with the TRC.

There are various Departments in the college including Department of Biotechnology, Department of Computer Science and Engineering, Department of Electronics & Communication Engineering, Department of Management.

The college has well established library with more than 40,000 volumes of books, periodicals and project reports. A large number of online databases through the Research Council of Oman portal are also accessible for all. The Library has implemented RFID system.

The college has many facilities including Smart Classrooms, Video Conferencing system, Language Lab, etc.

The college offers the following academic programmes of the Institute

- 1. Bachelor of Engineering in
 - Biotechnology
 - Computer Science
 - Electronics and Communication Engineering
- 2. Bachelor of Computer Applications*
- 3. Bachelor of Business Administration*
- 4. Masters of Business Administration
- Executive MBA*

^{*} Also offered with evening classes for working candidates.

Seminar / Conferences / Short – term Courses Conducted by the Department/Campus

SI. No.	Title of Seminar / Conferences / Short - term Courses / Workshop	Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses
1	Routing and Switching	Ms. Alycia Sebastian, Ms. Anu Manchanda, Mr. Sounak Paul	WCAS	11 November, 2014
2	Workshop on Lab VIEW	Mr. Vikash Sharma	WCAS	30 November 2014 – 4 December, 2014
3	Workshop on effective CV writing, Interview and group discussion	Mr. Syeed Aulia and Mr. Sultan Khan	WCAS	19 November, 2014
4	Advance Routing & Switching	Ms. Alycia Sebastian, Ms. Anu Manchanda, Ms. Cimi Thomas	WCAS	10 March, 2015
5	Digital Marketing Strategy Workshop	Dr. Alok K Kushwaha	WCAS	15 March, 2015
6	Ethical Hacking	Ms. Alycia Sebastian, Ms. Anu Manchanda, Ms. Cimi Thomas	WCAS	30 March, 2015
7	Stress Management and Positive thinking	Management Department	WCAS	22 March,2015
8	Refresher course on Health	Biotech Department	WCAS	9 April, 2015
9	3D creator and SAS Virtual Reality	Mr. Vikash Sharma	WCAS	14 April, 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/Seminar	Funding Agency	Organizers	Venue	Date
1	P. Vijaya, Mr. Satish Chander and Mr. Arbind Kumar Choudhary	Microsoft Education Day		Microsoft, Oman	Crown Plaza, Muscat	30 September, 2014
2	Ms. Hannah Manogaran	Higher Education Policy Development Workshop		Clicks		12-13 October, 2014
3	Dr. A. Prakash	Oman Taxation		Crowe Howath, Muscat		10 November, 2014
4	All faculty members of CSE Department	Routing and Switching	WCAS	Ms. Alycia Sebastian, Ms. Anu Manchanda, Mr. Sounak Paul	WCAS	11 November, 2014
5	Ms. Sinymol	Lab VIEW	WCAS	Mr. Vikash Sharma	WCAS	30 November, 2014-1 December, 2014

6	Dr. Sadaf Zahra, Ms. Seema Arora and Ms. Anasuya Patil	LabVIEW, cDAC and Elvis board	WCAS	WCAS	WCAS	1- 4 December, 2014
7	Ms. Vijaya	LabVIEW	WCAS	Mr. Vikash Sharma	WCAS	2 - 4 December, 2014
8	Mr Jyoti Chandel	The Image and Sustainability of Tourist Destinations		Sultan Qaboos University, Muscat	Sultan Qaboos University, Muscat	02 December, 2014-04 December, 2014
9	Ms. Blossom Christina	TRC Introducing FURAP Programme		TRC	WCAS	15 December, 2014
10	Dr. Alok Kushwaha, Dr. A. Prakash, Ms. Hannah Manogaran and Mr. Aiman Al battashi	Strategic Management in Higher Education Institutions: Concepts and Practices today		OQNHE (Oman Quality Network in Higher Education	Gulf College	17 December, 2014
11	Dr. Alok Kushwaha	International Standard Organization (ISO 9001) applied to Higher Education: Challenges and Good Practices		Sultan Qaboos University, Muscat	Sultan Qaboos University	11 January, 2015
12	Dr. Sadaf Zahra, Ms. P. Vijaya and Mr. Satish Chander, Dr. Alok Kushwaha, Mr. Vikash Sharma, Mr. Akhilesh Kumar Roy, Dr. A. Prakash, Dr. Mohammad Mohatram,Ms. Smita Prasad, Mr. Praveen James Sanga	Dale Carnegie Immersion Program	WCAS	WCAS	WCAS	6 -8 February, 2015
13	Ms. P. Vijaya and Mr. Satish Chander	National Robot Olympiad		Ministry of Education, Oman,	GUTECH	17 February, 2015
14	Dr. Alok Kushwaha, Ms. Hannah Manogaran, Mr. Aiman Al battashi and Ms. Iman Al Habsi	3rd Conference on Quality Management and Quality Enhancement in Higher Education		Oman Quality Network in Higher Education	Crown Plaza, Muscat	24 - 25 February, 2015
15	Dr. Sadaf Zahra and Ms. Atiya Tabassum	International Conference on Bioethics	Sultan Qaboos University	Sultan Qaboos University, Oman	Sultan Qaboos University	8-10 March, 2015
16	All faculty members of CSE Department	Advance Routing & Switching	WCAS	Ms. Alycia Sebastian, Ms. Anu Manchanda, Ms. Cimi Thomas	WCAS	10 March, 2015

17	Dr. Alok Kushwaha, Mr. Rajeev Ranjan and Ms. Nabila Al Zadjali	Digital Marketing Strategy Workshop		Ms. Zainab Gauhar, EduPristine	WCAS	15 March, 2015
18	Ms. Kusum Mishra, Ms. Sameena Begum ,Ms. Blossom Christina and Mr. Praveen James Sanga	Digital Marketing Strategy Workshop		Ms. Zainab Gauhar, EduPristine	WCAS	15 March, 2015
19	Ms. Indrani Basu,Mr. Roby Varghese, Mr. Khalifa	Audit General Foundation Programmes (GFPs)		Oman Academic Accreditation Authority (OAAA), Muscat		25 March, 2015
20	All faculty members of CSE Department	Ethical Hacking	WCAS	Ms. Alycia Sebastian, Ms. Anu Manchanda, Ms. Cimi Thomas	WCAS	30 March, 2015
21	Dr. Alok Kushwaha, Ms. Kusum Mishra, Ms. Sameena Begum, Dr. Srilekha Goveas, Ms. Neelufer Aslam, Dr. Nupur Sen and Ms. Blossom Christina	Student Response System - Workshop / Live Demo		Synergy Data Systems (Div. of Media Computers & Training Services LLC.)	WCAS	2 April, 2015
22	Mr. Ziyad Al Shehhi and Mr. Abdullah Ya'qoub Al Rawahi	Study skills in English language for omani students		Armed Forces Medical Services School, Muscat	Armed Forces Med- ical Services School, Muscat	12 May, 2015
23	Mr. Prashant K Singh	How Branding and Marketing help increase sales of Products and Services		Public Establishment for Industrial Estate (PEIE), Muscat		08 April, 2015
24	All faculties of Waljat College of Applied Sciences	Health & Safety Environmental System Awareness	WCAS	Sital Administrative Consultancy	WCAS	9 April,2015
25	Dr. Seema Varshney	OAAA		OAAA Strategic Plan Consultation Workshop		13April, 2015
26	Dr. Alok Kushwaha	3D creator and SAS Virtual Reality		SM Technologies LLC	WCAS	14 April, 2015
27	Ms. Fatma Nasser Al Farsi	Entrepreneurship and Higher Education		Oman Ministry of Higher Education	Oman Exhibition Center	20-21 April, 2015
28	Ms. Hannah Manogaran	Oman Higher Education Conference 2015		GHEDEX, Muscat		20-21 April,2015

29	Dr. Mohammad Mohatram	National Conference on Emerging Trends and Innovations in Chemical and Process Engineering (NCCPE-2015) as CHAIR for Technical Session		Caledonian College of Engineering, Muscat	Caledonian College of Engineering, Muscat	22 April, 2015
30	Ms. Indrani Basu,Mr. Roby Varghese, Mr. Khalifa Al Riyami	International ELT Conference		SQU,Muscat	SQU, Muscat	23-24 April, 2015
31	Mr. Satish Chander, Ms. Anu Manchanda and Mr. Sounak Paul	2nd National workshop on Unleashing your Research Potential	Arab Open University	Arab Open University, Oman Branch	Arab Open University	30 April, 2015
32	Dr. Niraj Mishra	International Program on Issues related to recruitment and promotion of faculty		BIT Ranchi		30 April, 2015
33	Dr. Sadaf Zahra, Ms. Atiya Tabassum, Ms. Sharmila Queenthy and Akhila Rajan	Fifth National symposium on final year projects	University of Nizwa	University of Nizwa, Oman	University of Nizwa, Nizwa	5 May, 2015
34	Dr. Seema Varshney	Symposium on Ports in Oman, Business Potential, Opportunities and Challenges		Rustaq College of Applied Sciences		05 May,2015 -06 May,2015
35	Ms. Sinymol and Ms. Akrati	Technologies for Differently Abled		Public Establishment for Industrial Estate (PEIE), Muscat		14 May,2015
36	Mr. Abdullah Ya'qoub Al Rawahi	2nd English and Translation Forum		SQU, Muscat	SQU, Muscat	18 May, 2015
37	Mr. Abdullah Ya'qoub Al Rawahi	Effective Communication & Human Relations	WCAS	WCAS	WCAS	27 May,2015
38	Mr. Omar Al-Shibli	English Skills for University		Arab Open University, Muscat	Arab Open University, Muscat	26 September, 2014
39	Ms. Vijaya, Mr. Mithun Srivastava, Mr. Praveen James Sanga, Dr. Niraj Mishra, Mr. Sunil Varghese, Mr. Arbind Kumar Choudhary,Mr. Mohammed Mohatram, Mr. Rajeev Ranjan, Dr. S. L. Gupta, Mr. Prashant Kumar Singh, Dr. Ganesh Prasad Mishra	Training and Workshop on Standards Assessment Process		Waljat College of Applied Sciences		24 June,2015

40	All academic staff members	Training on ADRI Model for Institutional Standards Assessment		Waljat College of Applied Sciences		24 June,2015 to 25 June, 2015
41	Mr. Sounak Paul	The 2015 International Conference on Advanced Informatics: Concepts, Theory and Application		Burapha University, Thailand, Toyohashi University, japan, Institu Teknologi Bandang, Indonesia		19 August, 2015 - 22 August, 2015
42	All academic staff members	Research Methodology and Innovative Teaching Methods	WCAS	WCAS	WCAS	30 August, 2015 – 10 September, 2015

Publications

International Journals

- 1. M. Bhavani, M. David and G. V. Chowdary, Mutative strain improvement of bacterial soil isolates for enhanced lipase activity. Current Trends in Biotechnology and Pharmacy, 2014, Vol. 8, No. 3, 294-302.
- 2. Sujeet Kumar Sharma, Jyoti Kumar Chandel, Srikrishna Madhumohan Govindaluri, Students' acceptance and satisfaction of learning through course websites. Education, Business and Society: Contemporary Middle Eastern Issues, 2014, Vol. 7 No.2/3, 152 166.
- 3. Anu Manchanda, Dr. Saurabh Mukherjee, Validation of DeLone and McLean model to analyze decision support systems success in the banking sector of Oman. International Journal of Computers & Technology, 2014, Vol. 13 No.12, 5210-5221.
- 4. Sounak Paul, B.K Mishra, Honeypot based Signature Generation for Polymorphic Worms. International Journal of Security and its Applications (IJSIA), 2014, Vol. 8 No 6, 101-114.
- 5. Christina B,Aslam N.,Said Al Amri ,Challenges and Barriers encountered by the SME's owners in Muscat. International Journal of Small Business and Entrepreneurship Research,2014,Vol 2, 1-12.
- Mishra, G. P., Grunewald, D., & Kulkarni, N. A, Leadership styles of Senior and Middle Level Managers: A Study of Selected Firms in Muscat, Sultanate of Oman. International Journal of Business and Management, 2014 Vol. 9, 72-79.
- Sameena Begum, A Comparative Study of Customer Satisfaction of Islamic Banks and Conventional Banks in Oman. The SIJ Transactions on Industrial, Financial & Business Management (IFBM), 2014, Vol. 2 No.4, 207-211.
- 8. Alycia Sebastian, Dr. K. Siva Sankar, Design of a Boot Loader for Operating System. Australian Journal of Basic and Applied Sciences, 2015, Vol. 9 No. 2, 368-374.
- 9. Shahid Ali Khan, Praveen Dhyani, Data Mining: Using C++ to Measure Correlation between Real Valued and Nominal Valued datasets. International Journal of Innovative Research in Computer Science & Technology (IJIRCST), 2015, Vol. 3 no.2, 55-59.

 Rajeev Ranjan et al., Functional Evaluation for Wireless Multimedia Networks By MAC Protocols. International Journal of Innovative Research in Computer Science & Technology (IJIRCST), 2015, Vol. 3 No.3.

International Proceedings

- 1. Sujeet Kumar Sharma, Shahid Ali Khanb, Praveen Dhyani, Measuring the correlation between mixed data sets with missing values for data mining applications, The 2nd International Conference on Applied Information and Communications Technology"-ICAICT 2014, Proceedings in Elsevier Publication-2014, 322-326.
- 2. Sounak Paul, Tapan Kumar Dey, Energy efficient routing in cluster based wireless sensor networks, in Proceeding of IEEE ICAICTA-2015 (in press), Thailand, August 19-22, 2015.
- 3. Akhila Rajan, Sidra Waheed and Rifah Rafi Khatib, Phytochemical screening of aloe vera and its antimicrobial properties, Proceedings of 5th National Symposium, Nizwa, 2015.
- 4. Atiya Tabassum, Ameera Jusab and Hajer Ali Juma, Extraction of Biodiesel from Animal Fat, Proceedings of 5th National Symposium, Nizwa, 2015.
- 5. Sharmila Queenthy, Kruti Shah and Noura Zahir, Phytochemical analysis and antibacterial activity of Moringa oleifera leaves, Proceedings of 5th National Symposium, Nizwa ,2015.
- Dr. Sadaf Zehra, Khushbu Bhatt and Hend Ghanim Al Noobi, Partial Purification, characterization and application of Mushroom tyrosinase in waste water treatment, Proceedings of 5th National Symposium, Nizwa, 2015.

Paper Presentation

1. Dr. Seema Varshney presented a paper "Cruise Tourism: A descriptive study of the impact on the environment in Oman" in the Symposium, organized by Rustaq College of Applied Sciences, 5 -6 May, 2015.

Award / Recognition Bestowed On Faculties (State / National / International)

Sl. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1	Dr. Mohammad Mohatram	Long Service Award	Omzest	2015
2	Mr. Akhilesh Kumar Roy	Long Service Award	Omzest	2015

MoU / Collaborations

S1. No.	Name of Organisation / University	Purpose / Area	Year / Duration
1	Small and Medium Enterprises Development Fund (SMEF)	Promoting Entrepreneurship and sustainable SME development	2015-2018

Students' Activities

Sl. No.	Name of the Activity	Students' co-ordinator/ Clubs	Date/Duration
1	WCAS Bowling Tournament	Sports Club	12 November, 2014
2	Trekking	Adventure Club	13 November,2014
3	Photography competition	Photography Club	16 November, 2014
4	National Day	Cultural club, Music club, Fine Arts & Activity club and Photography Club	18 November,2014
5	Paper Recycling Campaign	Environment Club	30 November, 2014
6	Volleyball and Handball Tournament	Sports Club	16 – 18 December, 2014
7	Plantation Event	Environment Club	17 February, 2015
8	Waljat College Picnic	Social club	19 February, 2015
9	Sports Day/ Cricket Tournament/ Relay Race/ Table Tennis	Sports Club	1 March, 2015
10	Photography short film competition	Photography Club	3 March , 2015
11	Anti-Tobacco Walk	Health and Safety club	11 March,2015
12	Traditional Day And Mother's Day/ Hobby project competition/ Cookery contest, Card Making competition, Henna competition, Rangoli competition, Frame making and calligraphy competition	Cultural Club/Tech club/ Fine Arts and Activities Club	17 March, 2015
13	Earth Hour	Environment Club	28 March, 2015
14	Open Day 2015-'Rejoice'/ Inter College/School Quiz/Painting competition/ Battle of Bands/Poster Exhibition	Cultural Club/Tech club/ Fine art and Activity club/Music Club/ Environment Club	19, April, 2015
15	Open Day 2015-'Rejoice'/ Tech Fest-2015/ Talent Hunt Contest/ Poster Exhibition	Cultural Club Tech club/ Music Club/ Environment Club	20 April, 2015
16	Gaming	Tech club	20 April, 2015
17	Inter College Short film competition	Photography Club	26 May, 2015

Other Important Information

- 1. 10th convocation ceremony was held on 18 January, 2015. A total of 326 students received the Degrees and Diplomas in their respective disciplines, of which 283 were Graduate degree awardees, 38 were given Diploma and 43 received Post Graduate Degree.
- 2. Waljat College of Applied Sciences has been awarded with "Number One Brand" among the private institutions of higher learning in a survey of SIMPA(an independent market survey agency in Oman) for the year 2014.

RAS AL KHAIMAH



BIT Offshore campus at Ras Al Khaimah, UAE started its operation from September 2005, where it imparts Under Graduate programs (as approved by Technical Council of BIT Mesra,) "B.E" in Electronics & Communication Engineering, Electrical & Electronics Engineering, Computer Science & Engineering, along with "B.Arch" in Architecture and "BBA" in Management. It also offers "Diploma" in Engineering after ten years of schooling. Apart from this, Post Graduate programs of "MBA" and "EMBA" are also offered in the Centre, where MBA is a regular program and EMBA is a week-end program. However, since 2013-14, the centre has also started offering three new courses ie. BE and Diploma in Mechanical Engineering and B.Com, in commerce discipline. In order to strengthen Mechanical Engineering infrastructure, a new Workshop-cum-Laboratory is being set-up in the centre.

With the support of "RAK Free Trade Zone" authority, BIT has associated with a new strategic partner i.e. "CORE international Institute of Higher Education FZE". Thus since February 2012, the International Center of BIT has been offering the same academic program, in the same premises but with a new name "BIT Offshore Campus, RAK" based on the agreement with BIT Mesra and License issued to the new strategic partner by RAK Free Trade Zone.

Seminar / Conferences / Short – term Courses Conducted by the Department / Campus

SI. No.	Title of Seminar / Conferences / Short – term Courses / Workshop	Coordinator	Date of Seminar / Conferences / Short - term Courses
1.	Maya Animation workshop	Ms. Archana Pandita	21st June to 25th June 2015
2.	Advance excel Workshop	Ms. Archana Pandita	22nd May 2015
3.	Guest Lecture on "Cross- Border Mergers and Acquisitions in the Banking industry: Contemporary Issues"- DR. TARIK, Faculty of Finance, University of Modern Sciences, Dubai	Mr. Soofi Anwar	17 Dec. 2014

4.	HR Summit & Expo-2014 –Dubai International Exhibitions & Conventions Center	MBA Students	22 Oct. 2014
5.	AMITY Business Day-2015-MBA students participated in the event held at AMITY University Dubai	Dr. Kavita Tiwari	25 May 2015
6.	Visit to The Meydan Hotel, Dubai by Hospitality Management students	Ms. Deval Kartik	23 Nov 2014
7.	Symposium on "Trends in Higher Education: Teachers' Perspective"	Mr. Soofi Anwar	14 May 2015
8.	Workshop on Recent Trends in SCM	Mr. Soofi Anwar	23 Jan 2015
9.	Soft Skill & Personality Development Workshop	Shalini Bedi	Dec 2014
10.	Industry Visit - Eternity Technology & Pracsi Meta	Ani Daniel	4th Dec 2015 and 20th May 2015

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Organizers	Venue	Date
1.	Dr. P K Upadhyay	3rd International Conference on Modern Trends in Science, Engineering and Technology	ICMTSET 2015	Dubai	20-21 May 2015
2.	Dr. P K Upadhyay	Symposium on Trends in Higher Education	CIIHE, RAK, UAE	BIT Off shore Campus, RAK	14th May 2015
3.	Dr. P K Upadhyay	TEQIP sponsored short term training programme on Analysis of Composite Materials	Department of Chemical Engg. & Technology, BIT Mesra	BIT, Mesra	19-23 Jan 2015
4.	Dr. P K Upadhyay	MHRD sponsored workshop on Control Systems	IIT KGP, coordinated by BIT Mesra	IIT KGP	2-12 Dec 2014
5.	Dr. P K Upadhyay	TEQIP sponsored National workshop in Power Electronics-2014	Dept of EEE, BIT Mesra	BIT, Mesra	7-8 November, 2014
6.	Dr. P K Upadhyay	ISTE sponsored short term training programme on Six Sigma Tools and Applications	BIT Mesra	BIT Mesra	25-30 August, 2014
7.	Ms Archana Pandita	2nd International Conference on Innovative Trends in Science, Engineering and Management 2015 (ICITSEM 2015)	ICITSEM 2015	Hyatt Place Hotel, Al Rigga, Dubai, UAE	25th & 26th February 2015.
8.	Prashanth T	Faculty Development Program	BIT- off shore Campus	BIT- off shore Campus	21-22 January 2015
9.	Ani Daniel	Additive Manufacturing	College of Engineering , Adoor	College of Engineering , Adoor	13th Aug 2015

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10.	Ar.Champa H S	Global Networks and Design Identity (ies)	School of Design & Architecture, Manipal University	Manipal , Dubai	6-7 May 2015
11.	Ar.Bhavna Mody	COA-NIASA Faculty Induction Programme	School of Design & Architecture, Manipal University	Manipal , Dubai	9-13 Feb 2014
12.	Nikhil V P	Global Issues in Multidisciplinary Academic Research (GIMAR-2015)	The Global illuminators	Dubai	5th & 6th January 2015
13.	Soofi Anwar	"International Conference on Innovative Management Practices & Emerging Trends-Envisioning Global Challenges" - Presented a research paper on "Consumer Preference and Attitude towards Personal Care Products Ad Appeals"	Altius Institute of Universal Studies, Indore(May 2015)		May 2015
14.	Soofi Anwar	National Qualifications Assessment (NQA)-Orien- tation Program-RAK FTZ	RAK FTZ		13 Nov. 2014
15.	Dr. Kavitha	Changing Management Paradigms in a Dynamic Business Environment	1st International Conference- Altius Institute of Universal Studies, Indore.		2nd – 3rd May , 2014
16.	Dr. Kavitha	New Normal Strategies for transforming Bharat to India in context of D4	4th International Conference – ELIXIR 2014 -Datta Meghe Institute of Management Studies -Nagpur.		19th – 20th Sept , 2014
17.	Dr. Kavitha	Promoting Multidisciplinary Academic Research & Practice to Meet the Global Challenges to economies and societies	International conference on -"Global issues in multidisciplinary academic research" (GIMAR- 2015) Dubai – UAE Best Research Paper + Best Paper Presentation Award		5th - 6th Jan, 2015
18.	Dr. Kavitha	Promoting Multidisciplinary Academic Research & Practice to Meet the Global Challenges to economies and societies	International conference on -"Global issues in multidisciplinary academic research" (GIMAR- 2015) Dubai – UAE Best Research Paper + Best Paper Presentation Award		5th – 6th Jan, 2015
19.	Dr. Kavitha	Innovative Management Practices and Emerging Trends – Envisioning Global Challenges	2nd International Conference – Altius Institute of Universal studies - Indore (India) Best Research Paper + Best Paper Presentation Award		1st May , 2015
20.	Dr. Kavitha	Innovations & IPR	Indian Institute of corporate affairs, Ministry of corporate affairs, India ,International Conference on Innovations & IPR		15th - 16th May ,2015

Publications:

- 1. Chetna Nagpal, P K Upadhyay, "Sleep EEG Classification using Fuzzy Logic", International Journal of Advanced Research in Engineering, Vol 1, April- June 2015.
- 2. Chetna Nagpal, P K Upadhyay, "Sleep EEG Classification using Fuzzy Logic", International Journal of Recent Development in Engineering and Technology, Vol 4, May 2015.
- Ani Daniel, Chris Sutcliffe., Design and Simulation of an SLM industry for the manufacturing of Dental Implant. In Proceedings International Conference on Recent Trends in Engineering and Technology, Feb 2015.
- 4. Ravi Kumar, Suresh, Prashanth., Adhesive Wear Behaviour of Eutectic Aluminium Cenosphere Composites. In Proceedings of Trends and Innvotions in Automation, Materials and Thermal Engineering, Feb 2015
- 5. Kiran Kumar S, Nishanth Udupa, Prashanth., Evaluation of wear and corrosion behaviour of heat treated stainless steel. In Proceedings of Industrial Tribology, Feb 2015.
- 6. Gayathri Viswanathan & Champa H S., Experiences in Architecture Education Learning and Teaching Methodologies, Topic: "Teaching Sharing or Enhancing the Learning". Horizon Research Publishing Civil Engineering and Architecture 2(8): 281-283, 2014 http://www.hrpub.org (October 2014).
- 7. Champa H S & Gayathri Viswanathan., Town and Country Planning Education Retrospect and Prospect, an International Seminar, Topic: "Integrating Planning Knowledge in Education improved overall development of cities", Institute of Development Studies, University of Mysore, Mysore, Karnataka. (November 2014).
- 8. Champa H S at 'Global Networks and Design Identity (ies)', International Seminar paper titled "Are socially responsible designs region and context specific?", School of Design & Architecture, Manipal University (May 2015)
- 9. Champa H S & Gayathri Viswanathan., 63rd National Town and Country Planners Congress of ITPI, High Growth Inclusive Urban Settlement "Twin Cities and Satellite Towns" "Role of Satellite towns in reducing the pressure on the parent city", Chennai, Tamilnadu (January 2015).
- 10. Nikhil V P, Kavitha "A Study on The Impact of Online Advertisements on Buying Decision of Passenger car customers" has been published in the journal of Associated Asia Research Foundation in March 2015 GE-IJMR ISSN:(2321-1709)IMPACT FACTOR-3.142. (Link: http://aarf.asia/geer2.php?p=Volume3,Issue3,March2015)
- 11. Soofi Anwar, "Examining the Role of Technological Factors in Faculty Knowledge Sharing Behavior" Global Journal for Research Analysis, ISSN- 2277-8160, July 2014.
- 12. Kavitha, "Your Present Saving Can Be Your Everlasting Income", Shodh Journal Of Management & Commerce, ISSN 2348-881, May 2014.
- 13. Kavitha, "Basel III Norms & Indian Banks A new Definition of Risk Management", International Journal of Advanced Research, July 2014.
- 14. Kavitha, "A study on the customers buying behavior towards eco-friendly products", Envisioning 2030: The Paths Ahead Globally, ISBN 978-93-84648-53-4, Dec 2014.

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- 15. Rhoda Alexander, "Emotional Intelligence as a predictor of job performance", International Business Conference, Ajman May 2015.
- 16. Rhoda Alexander, "Job Stress and Job Satisfaction A Study among school teachers in the UAE", Altius University, May 2015.

Award / Recognition Bestowed on Faculties (State / National / International)

SI. No.	Name of the Faculty	Title of the Award/ Honours	Organisation	Year / Duration
1.	Dr. Kavitha	Best Presentation & Best Research Paper award	International Conference by Altius Institute of Universal studies	1st May 2015
2.	Dr. Kavitha	Certificate of Recognition as Mentor – AMITY Business Day	Amity University, Dubai	May 2015
3.	Dr. Kavitha	Best Presentation & Research Paper award and Session Chair	International Conference by Global Illuminators, Dubai	5th and 6th Jan 2015
4.	Dr. Kavitha	Guest Speaker & Session Chair	International Conference on Inter-Disciplinary Research on Engineering, Dubai	24th – 25th Jan 2015
5.	Dr. Kavitha	Session Chair and steering committee member	International Conference by Manipal University, Dubai	March 2015
6.	Dr. Kavitha	Registered PhD Guide	Pacific University, Rajasthan	June 2014

Students' Activities

Sl. No.	Name of the Activity	Date/Duration
1.	BIT Fest 2014	15.05.2014
2.	Annual Day (BLAZE), 2014	07.03.2014
3.	Intra-collegiate Cricket Tournament, 2014	20.02.2014
4.	Various Intra-Collegiate Sports & Cultural Events of the campus	Throughout the year
5.	Inter-Collegiate Sports & Cultural Events conducted by various colleges in UAE	Throughout the year
6.	Career Fair	21st May and 31st May 2015

UNIVERSITY POLYTECHNIC

With its growing popularity, University Polytechnic has become the first choice of students for Technical education at Diploma level. This is evident from the fact that the cut off marks for admission this year was as high as 87% for Unreserved and OBC categories, and, 63.67 and 64 percent respectively for ST and SC category students.

Admission process for both Diploma in Engineering & Medical Lab Technology courses for 2014 batch was completed as per schedule and their regular classes started off in July, 2014.

Programmes offered:

Sl. No.	Programme Offered	Year of Introduction	Sanctioned Strength
1.	Diploma in Automobile Engineering	2001	60
2.	Diploma in Electronics Engineering	2001	30
3.	Diploma in Computer Engineering	2003	30
4.	Diploma in Manufacturing Engineering	2003	30
5.	Diploma in Electrical & Electronics Engineering	2010	30
6.	Diploma in Mechanical Engineering	2010	30
7.	BMLT	2005	60

Admission and Registration

Students' Enrolment : During the year 2014-15. The program-wise detail is as follows:

MO-2014

Diploma	Branch	No. of students	Total
1st semester	Automobile + Mechanical + Electronics	+ EEE + Computer + Manufacturing	202
3rd semester	Automobile	52	191
	Computer	24	
	Electronics	29	
	EEE	31	
	Manufacturing	28	
	Mechanical	27	
5th semester	Automobile	50	181
	Computer	23	
	Electronics	25	
	EEE	27	
	Manufacturing	27	
	Mechanical	29	
1st semester	BMLT	33	33
3rd semester	BMLT	40	40
5th semester	DMLT	35	35

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SP-2015

Diploma	Branch	No. of students	Total
2nd semester	Automobile+ Mechanical + EEE + Electronics	Computer + Manufacturing +	199
4th semester	Automobile	51	192
	Computer	24	
	Electronics	29	
	EEE	31	
	Manufacturing	29	
	Mechanical	28	
6th semester	Automobile	48	178
	Computer	24	
	Electronics	25	
	EEE	27	
	Manufacturing	27	
	Mechanical	27	
2nd semester	BMLT	32	32
4th semester	BMLT	39	39
6th semester	BMLT	34	34

Admissions: During the year 2014-15, total of 249 students were admitted in various programmes. The program-wise detail is:

Sl. No.	Programme	No. of Students Admitted
1.	Diploma	201
2.	BMLT	48

Training and Placement

Number of students placed in various companies through campus selection process is as follows:

S.No.	Name of Company	No of students placed
1.	Blue Star, Kolkata	02
2.	L&T Ltd., Chennai	02
3.	Gmmco Ltd., Chennai	04
4.	Ceat Tyres, Baroda	10
5.	Tata Motors, Jamshedpur	07
6.	Shine Institute(APOLLO Group), Ranchi	07
7.	Automobikes, Ranchi	03

Students were taken to following organizations for Industrial/ Institutional visits:

- 1. MSME Tool Room, Tatisilwai, Ranchi
- 2. ALCAST, Ranchi
- 3. Meditron, Ranchi
- 4. Transgeitz, Ranchi

Sponsored Projects

Projects Completed

SI. No.	Project Title	PI / Co- PI/ Collaborator	Funding Agency	Date of Sanction	Sanctioned Amount	Date of completion
1.	Evaluation of Antimicrobial Activity of Cationic Lipidic Emulsions	Mrs. Neeru Singh	UGC	30 July 2012 (Duration 02 years)	1.61 Lakhs	30 th Jul 2014

Conferences/ Seminars/ Workshops/ Staff Development Programmes attended

SI. No.	Name of the Faculty	Title of the Conference/ Seminar	Funding Agency	Organizers	Venue	Date
1	Dr. Sandhya Rani	80 th Orientation Programme	UGC	UGC-Academic Staff College, Ranchi University, Ranchi	Academic Staff College,	5 th Nov2 nd Dec., 2014
2	Mr. Abhay Kumar	80 th Orientation Programme	UGC	UGC-Academic Staff College, Ranchi University, Ranchi	Academic Staff College,	5 th Nov2 nd Dec., 2014
3	Dr. G. M. Ansari	83 rd Orientation Programme	UGC	UGC-HRD Centre, Ranchi University, Ranchi	UGC-HRD Centre, Ranchi University, Ranchi	15 th May - 11 th Jun, 2015
4	Dr. Sandhya Rani	Application of Biotechnology in modern pharmacognosy	AICTE	BIT, Mesra	Dept. Pharm. Sci. & Tech, BIT, Mesra	5th Dec- 18 th Dec, 2014
5	Dr. Satish Kumar	2-Week Quality Improvement Program on 'Application of Biotechnology in Modern Pharmacognosy'	AICTE	Department of Pharmaceutical Sciences, BIT, Mesra, Ranchi.	BIT, Mesra, Ranchi.	5 th Dec-18 th Dec, 2014
6	Dr. Satish Kumar	7 th International Congress of Environmental Research	TEQIP	R.V. College of Engineering, Banglore in collaboration with Journal of Environmental Research and Development	R.V. College of Engineering, Banglore	26 th Dec- 28 th Dec, 2014

7	Dr. Satish Kumar	2-Week ISTE STTP on Environmental Studies	NMEICT (MHRD)	IIT, Bombay	BIT, Mesra, Ranchi.	2 nd Jun- 12 th Jun, 2015
8	Dr. Meena Singh	ISTE workshop on Control Systems	NMEICT (MHRD)	IIT Kharagpur,	BIT Mesra	2 nd Dec- 12 th Dec, 2014
9	Dr. G. M. Ansari	ISTE workshop on Control Systems	NMEICT (MHRD)	IIT Kharagpur,	BIT Mesra	2th Dec- 12 th Dec, 2014
10	Mr. Ramnish Sinha	ISTE workshop on Control Systems	NMEICT (MHRD)	IIT Kharagpur,	BIT Mesra	2 nd Dec- 12 th Dec, 2014
11	Mr. Abhay Kumar	"Two week ISTE STTP on Introduction to Design of Algorithms"	NMEICT (MHRD)	Dept. of Computer Science & Engg., BIT Mesra	BIT Mesra	27 th Apr- 30 th May, 2015
12	Dr. Meena Singh	Know yourself as a Teacher	IQAC, BIT Mesra	IQAC, BIT Mesra	BIT Mesra	24 th Nov- 28 th Nov, 2014

Publications:

Journal Publications

- Nirupam, S.S. Solanki. Level Sensor: Design and Laboratory Test. International Journal of Advanced Engineering Science and Technological Research (IJAESTR) Vol. 3, Issue 1, March – 2015, pp. 195-200 ISSN: 2321 – 1202.
- Nirupam, Amit Krishna Dwivedi, S. S. Solanki. Innovative Design of Dam Water Level Sensor. Sensors and Transducers Journal, vol. 189, issue 6, June 2015, pp. 150 – 156, ISSN.: 2306 – 8515, e- ISSN: 1726 – 5479.
- 3. Neeru Singh, Saurabh Manaswita Verma, Sandeep Kumar Singh & Priya Ranjan Prasad Verma (2015), Evidence for bactericidal activities of lipidic nanoemulsions against Pseudomonas aeruginosa, Antonie van Leeuwenhoek, 107 1555-1568.
- 4. Neeru Singh, Saurabh Manaswita Verma, Sandeep Kumar Singh, Priya Ranjan Prasad Verma & Mohd. Neyaz Ahsan (2015), Antibacterial activity of cationised and non-cationised placebo lipidic nanoemulsion using transmission electron microscopy, Journal of Experimental Nanoscience, 10(4), 299-309.
- 5. Neeru Singh, Saurabh Manaswita Verma, Sandeep Kumar Singh & Priya Ranjan Prasad Verma, (2015). Antibacterial action of lipidic nanoemulsions using atomic force microscopy and scanning electron microscopy on Escherichia coli, Journal of Experimental Nanoscience, 10(5), 381-391.
- Neeru Singh, Saurabh Manaswita Verma, Sandeep Kumar Singh and Priya Ranjan Prasad Verma, (2014)
 Consequences of Lipidic Nanoemulsions on Morphology and Membrane Integrity of Staphylococcus aureus Using Transmission Electron Microscopy, Material Research Express 1

Conference Proceedings

- 1. Satish Kumar, J.P. Pandey and A.K. Sinha. Evaluation of modified traditional method of water purification in context if Iron and Fluoride removal. Journal of Colloid and Interface Science. Proceeding of International Congress of Environmental Research (ICER-2014) at Banglore from 26-28 Dec, 2014.
- 2. Ashish Kumar, J.P. Pandey, Satish Kumar. Removal of Arsenic(III) from aqueous solution using low cost biosorbent derived from green peas (Pisum sativum) teasta. Proceeding of International Congress of Environmental Research (ICER-2014) at Banglore from 26-28 Dec, 2014.
- 3. Ashish Kumar, J.P. Pandey, Satish Kumar. Study of Occurrence and Toxic Effect of Arsenic in Ground Water of Ranchi and Effort of Remediation. Proceeding of Current trends in Analytical Chemistry (CTAC-2015) at BARC, Mumbai from 25-29 May, 2015.

Special Recognition

- Dr. Satish Kumar was appointed as reviewer of International Journal 'Desalination' published under 1. Elsevier (Impact Factor-3.96).
- 2. Dr. Satish Kumar was appointed as reviewer of International Journal 'Environmental Monitoring and Assessment' published under Springer (Impact factor-1.697).
- 3. Dr. Satish Kumar was appointed as member of the Editorial Board of the International Journal 'Current Research in Pharmaceutical Sciences' (ISSN: 2250-2688) published by EMPRO Publication.

Different Working Committees

- 1. Examination: Mr. Ramnish Sinha (Coordinator), Mr. N. K. Mukherjee (Jt. Coordinator), Dr. Sumana Kumari (Jt. Coordinator)
- 2. Admission: Mr. Rakesh (Coordinator), Mr. Niraj Kumar (Jt. Coordinator), Mr. N. K. Mukherjee (Jt. Coordinator)
- Semester & Registration: Mr. Niraj Kumar (Coordinator), Mr. Rajender Mahto (Jt. Coordinator), Mr. P.R. 3. Mahto(Member)
- Training & Placement: Mr. Ramnish Sinha (Coordinator), Mr. Niraj Kumar (Jt. Coordinator), Dr. Satish 4. Kumar (Jt. Coordinator), Mr. Chanchal Kumar Mishra (Member)
- 5. Cultural Committee: Dr. (Mrs) Sandhya Rani (Coordinator), Mrs. Neeru Singh (Jt. Coordinator), Mohd. Neyaz Ahsan (Member)
- 6. Engineering Society: Mr. Pradeep Toppo (Coordinator), Dr. Satish Kumar (Jt. Coordinator), Dr. T. K. Parashar (Jt. Coordinator)
- 7. Annual Report: Mr. Ramnish Sinha (Coordinator), Dr. Sandhya Rani (Jt. Coordinator)
- 8. AICTE, NBA- approval/ accreditation committee: Mr. Rakesh (Coordinator), Mr. Niraj Kumar (Jt. Coordinator)
- 9. Scholarship/ Stipend for Students: Mr. Abhay Kumar (Coordinator), Dr(Mrs) Meena Singh (Jt. Coordinator), Mr. Shankar Kumar (Member)

- 10. Time-table cum Classroom Committee: Mr. Niraj Kumar (Coordinator), Mrs. Rekha Mehta (Jt. Coordinator)
- 11. Souvenir Committee: Dr. B. N. Sanyal (Coordinator), Dr. G. M. Ansari (Jt. Coordinator), Mr. Rajendra Mahto (Jt. Coordinator)
- 12. Department Purchase Committee: Mr. Ramkesh, Mr Rakesh, Mr N.K. Mukherjee, Dr (Mrs) Sumana Kumari & Mr Niraj Kumar
- 13. Departmental CAS/UGC Scrutiny Committee: Dr(Mrs) Sumana Kumari (Coordinator), Mr Ramkesh, Dr(Mrs) Sandhya Rani, Mr Ramnish Sinha, Mr Rakesh, Mr Niraj Kumar

Short-term Training Program for Students

Mr. Niraj Kumar and Mr. Ramnish Sinha organized two-weeks training program on ASP.Net for the students of Computer Engineering branch.

Cultural Events

Art-and-craft exhibition & cultural programme Unifesto '15 was organized on 23rd & 28th Jan, 2015. Large number of students had participated in the programmes.

Annual Athletic Meet 2014

University Polytechnic organized its 8th Annual Athletic Meet on 10th and 11th February, 2015. Dr. (Mrs.) Louis Marandi, Hon. Welfare Minister, Govt. of Jharkhand was the Chief Guest at the opening ceremony. Prizes were distributed by Dr. M.K. Mishra, Vice-chancellor, BIT Mesra.

TEQIP

(Technical Education Quality Improvement Programme Phase -II)

The objectives of the Technical Education Quality Improvement Programme Phase-II (TEQIP-II) of Government of India (GOI) are to Strengthening Institutions to produce high quality engineers for better employability, Scaling-up postgraduate education and demand-driven Research & Development and Innovation, Establishing Centers of Excellence for focused applicable research, Training of faculty for effective Teaching, and Enhancing Institutional and System Management effectiveness.

Birla Institute of Technology, Mesra, Ranchi has been selected in TEQIP-II under sub-component 1.2 and subcomponent 1.2.1(March 2013).

Under sub-component 1.2 the Institute will receive Rs. 12.5 crore for Scaling-up Post Graduate Education and demand driven Research & Development and Innovation. Institute has received Rs. 2 crore on 12th May 2012 for initiating various activities of the project as first installment. Subsequently Rs. 2.00 Rs and Rs 1.5 crores have been received as 2nd and 3rd Installment on 20th Feb 2014 and 20th April 2015.

Under subcomponent 1.2.1 the Institute will receive Rs. 5 Crores for establishment of center of excellence on Bioresources and Bioprospecting. SPFU, Government of Jharkhand has released Rs. 2 crore to the Institute under this subcomponent in June 2013 and Rs. 1.50 Crores in April 2015 as 2nd Installment.

Details of Activities Carried out under Subcomponent 1.2

1. Improvements in Teaching, Training and Learning Facilities

- a) New laboratories developed:
 - Electric Drive Lab Department of Electrical Engineering
- b) Up gradation of Existing laboratory facilities
 - i. GIS Lab – Remote Sensing
 - Computer Lab- SE&R
 - iii. Computer Lab III- Computer Science & Engineering

2. **Teaching and Research Assistantships**

- TEQIP research assistantship of Rs 18000/- per month has been provided to 14 PhD students admitted in various Departments in 2012.
- Under CoE assistantship of Rs. 5000/- has been given to 26 M. Tech. (1st & 3rd Semester)
- Under CoE assistantship of Rs. 5000/- has been given to 14 Doctoral students.

3. Faculty and Staff Development (FSD)

Faculty and Staff Development is an important component of TEQIP. Training need analysis (TNA) of faculty and staff members is conducted in the beginning of every year. Training Plan for the year was prepared on the basis of TNA analysis. Following activities are conducted under head FSD during the period:

- a) One hundred forty one faculty and staff members were financially supported for attending conference, workshop, seminar, training program etc.
- b) Eleven faculty members under CoE attended Conference/Workshop/Seminar outside Institute.
- c) Workshop/Training program organized under TEQIP:

Sl. No.	Title of Programme	Duration of Programme	No. of participants
1.	International conference on Devices, Circuits and communications (ICDCCom-2014)	12.09.14 to 13.09.14	60 paper presented in conference
2.	One week short term training programme (STTP) on "Analysis of Composite Materials"	19.01.15 to 23.01.2015	Total :48 Internal Faculty:10
3.	Womens awareness Programme in BIT for all female faculty & staff	13.01.15	Female faculty, staff & students
4.	One week Workshop on Advanced Microcontroller Applications (AMA-2015)	02.02.15 to 08.02.15	Total:40 Internal Faculty:2
5.	One Week Short term course on Lean six sigma tools & applications	25.05.15 to 29.05.15	Total:50 Internal faculty:15

- d) Thirteen faculty members were supported for publishing research article in international journal.
- e) Number of faculties supported for printing PhD thesis: 06

4. Institutional Management Capacity Enhancement

Details of Institute officials sent for administrative training and training in their functional areas:

- i. Management development program for administrators, IIM, Raipur
 - a) Prof. Arbind Kumar, HOD Mechanical Engineering: 4th August to 9th August, 2014
 - b) Prof. Gopal Pathak, HOD Civil & Environmental Engg.: 4th August to 9th August, 2014
 - c) Dr. Sandip Dutta, HOD, CSE: 11th October to 19th October 2014.
 - d) Prof. Anand Kr. Sinha, Dean UG: 7th September to 14th September 2014.
 - e) Prof. R.C Jha, HOD, EEE: 7th September to 14th September 2014.
- ii. The Prevention Prohibition & Redressal Act 2013 on 16.03.15 to 19.03.15 by Institute of Public administration, Bangaluru
 - a. Mrs. Nidhi Jaiswal, AR Legal
- iii. Training Programme on Quality Initiatives in Technical & Higher Educational Institutions Engg staff College of India on 26.01.15 to 31.01.15
 - a. Prof. Kunal Mukhopadhyaya and Prof. Ramesh Chandra Dept. of Bioengineering
 - b. Prof. P. R. Thakura and Prof. Prem Prakash Dept. of EEE
- iv. Training Programme on Patent Filling & Processing on 5.01.15 to 09.01.15

- Dr. Ritesh Kr. Singh, Associate Professor, Dept. of Production & Chairman IPR Cell. a.
- b. Mr. R. P. Singh, Assistant registrar Purchase & Member, IPR Cell.

5. **Academic Support to Weak Students**

- Remedial classes where conducted for weak students. The details are as follows: a)
 - Monsoon 2014 : 109 classes
- b) Finishing school:
 - 10 sessions of 2.5 hours on Resume Building, Group discussion & personality development has been conducted in July 2014 in T&P section for final year students.
 - Diagnostic test is conducted every year to identify weak students of final year.
 - 60 CDP classes for students of 3rd year BE and 1st Year ME has been conducted in 2014-15.
 - CDP address areas like:
 - Communication skills
 - 0 English language
 - Other soft skills O
 - Input from industry experts
 - P. Sindhuja "Manager Strategic leadership development, Wipro Chennai visit the Institute for course on interpersonal & soft skills, facing GD & interview and creativity & innovation for BE, ME students on end of July 2015

6. E-enabled Learning

- Two week NMEICT ISTE Main Workshop on "Computer Networking" conducted by IIT Bombay a) from 30th June to 5th July, 2014.
- Two week ISTE Main Workshop on "Control System" on 02nd Dec to 12th Dec, 2014 by IIT b) Kharagpur
- Two week ISTE Main Workshop on Introduction to design of Algorithms on 25.05.15 to 30.05.15 c) by IIT Kharagpur
- d) Two week ISTE Main Workshop on Environmental Studies on 02.06.15 to 12.06.15 by IIT Bombay

7. **Development of Research Interest among Students:**

From IOC head of TEQIP-II provision has been made to provide financial support to UG/PG/PhD students for attending seminar, conference, workshops etc.

Total number of students supported in this period is: 73

NATIONAL CADETS CORPS 3 JHARKHAND COMPOSITE TECHNICAL COMPANY NCC BIT MESRA





National Cadets Corps of B.I.T. Mesra is one of the important components of the Institute which impart military training to include technical and physical subjects for first 6 semesters. Technical Council has approved the duration of NCC training for 3 years (6 semesters) starting from 2013-14 batch. NCC has 200 cadets on its roll who are being given basic knowledge in Corps EME, Corps Engineers and Corps Signals. In session 2014-15, NCC has conducted apart from classes, activities like firing, blood donation, International yoga day celebration, NCC day celebration, Swachh Bharat Abhiyan, adoption of village tree plantation etc. The cadets put up impressive parade during Republic Day and Independence Day which was lauded by all. The Army band brought more colour and fanfare to the parade. The following major activities were conducted by the NCC.

- (i) Live firing of .22 Rifle by cadets.
- (ii) Participation in Republic Day and Independence Day Parade.
- (iii) Tree Plantation by cadets inside the B.I.T. Campus.
- (iv) Blood Donation by the entire NCC Team incl the cadets.
- (v) International yoga day celebration.
- (vi) NCC day celebration.
- (vii) Swachh Bharat Abhiyan.
- (viii) 02 Cadets were awarded with 'Sahara Scholarship' in which they were given Rs. 30,000/- each.

The unit is commanded by Lt Col CD Sahoo and has Associate NCC Offr Major Subir Samanta, Lt K K Senapati as caretaker Ms Swati Prasad and other staff from Army and Civil.

NATIONAL SERVICE SCHEME



NSS provides opportunities to the students to play their role in planning and executing development projects which would not only help in creating durable community assets in rural areas but also results in the improvement of quality of life of the economically and socially weaker sections of the community. It encourages youth to participate enthusiastically in the process of national development and promote national integration, through corporate living and cooperative action.

Birla Institute of Technology, Mesra offers NSS as an elective subject in all the undergraduate programs for 1st and 2nd year students. The NSS Cell, BIT Mesra organizes regular and special activities in the five adopted villages namely Rudhia, Pancholi, Humbai, Mesra and Navatoli. The major programs conducted by NSS are:

- Swach Bharat Abhiyan: Taking the cue from our honorable Prime Minister, NSS Cell, BIT Mesra
 organized various cleanliness drives within the university campus as well as community assets of adopted
 villages like temples, Police out post, Anganwadi Kendras, Samudayikbhawans and Panchayat bhawans.
- Blood donation camps: NSS Cell, BIT Mesra organized two blood donation camps in either semesters at University health center in association with blood banks of reputed medical agencies like RIMS, CCL, Sevasadan and Medanta. The Cell was felicitated by present Health Minister, Govt. of Jharkhand for its remarkable service to the mankind on the International Blood Donation Day 2015.
- **Plantation**: NSS Cell, BIT Mesra is also sensitive to the environment at large. It has planted hundreds of saplings in adopted villages and university campus.
- **Pulse polio immunization :** NSS Cell, BIT Mesra in association with Block Public Health Centre, Kanke, organized pulse polio immunization camp at University health centre where children of sub age group from adopted villages and residents of campus were immunized. NSS volunteers campaigned in these villages to eradicate this deadly disease and to make the area a polio free zone.

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- **Literacy program**: NSS volunteers extend their service by teaching the school dropouts and deprived children of adopted villages at community centers. They also assist the teachers in the nearby government schools.
- Awareness program: Various awareness programs were organized for NSS volunteers to make them
 socially responsible and vigilant citizens like Legal awareness programs on RTI, Consumer rights etc. and
 financial literacy programs.
- **Rallies:** Various rallies were taken out on issues of national and social interests like energy conservation, forestation, health and hygiene, sanitation, road safety, water conservation etc.
- **International yoga day:** To commemorate International Yoga Day, NSS Cell, BIT Mesra organized Yoga camp on 21st June 2015. NSS volunteers, faculty and staff of the university participated in the camp and were benefited.
- **Support to old age home and orphanage :** NSS volunteers regularly visit old age homes and orphanages.
- **PrabhatPheri**: NSS volunteers take out Prabhat Pheri on Independence Day and Republic Day to give social messages and instill a sense of patriotism among the fraternity.

The Ministry of Youth Affairs and Sports, Govt. of India has allocated five units of NSS to the University. NSS Cell, BIT Mesra is officiated by Dr. B. K. Mishra, Dean (SW), Chairperson, Dr. Abhinav K. Shandilya, Program Coordinator and five program officers - Dr. Sanjay Kumar, Dr. Shashank Puskar, Mr. O. P. Pandey, Mr. Gautam Shandilya, and Dr. Yogendra Aggarwal.

PHYSICAL EDUCATION AND SPORTS









Teams from BIT Mesra participated in "Inter Technical Sports Fest, Spardha – 14" organized by IIT – BHU, Varanasi during the period of 29th October to 04th November 2014.

The details of participation are as follows:-

SI No.	Team	Name of team Captain	Members	Results
1.	Athletics	Wainbait Shylla	05	01, Bronze Medal in High Jump won by Abhishek Kumar of Integrated M. Sc.
2.	Badminton	Rajan Kumar	05	Won Bronze Medal
3.	Basketball	Abhy Shankar	10	Semi finalist
4.	Cricket	Shubhojeet Chakraborty	16	-
5.	Football	Aariz Khan	14	-

Intramural & Extramural

- 1. Inter Hostel Football Final Match was played between Hostel No. 06 and Hostel No. 12; Hostel No. 06 won the Championship.
- 2. Nikhil Khanna Trophy was organized on 16.10.2014; Mr. Rajan Kumar won 1st Position & Mr. Chiranth 2nd Position in the Tournament.
- Cross Country Race was organized on 18.10.2014, Mr. Wainbait Shylla (BE/10534/2012) won 1st place 3. in Men Section & Ms. Tulika Tiwary (IMH/10003/2013) 1st place in Women Section.

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- 4. 29th Annual Athletic Meet was organized by the Institute from 30th January 2015 to 01st February 2015 in which Hostel No. 6 lifted the championship and Mr. Sujit Hembram was declared individual Champion. Ms. Kiran Kisku of 2011 Batch was declared individual Champion among Women Section. Mr. Anurag Gupta (IPS) ADGP Jharkhand and Dr. M.K. Mishra Vice Chancellor of BIT Mesra distributed the prizes on the occasion.
- 5. 23rd Chetan Dev Raj Memorial Inter Technical Cricket Tournament was organized from 11.02.2015 to 15.2.2015. The final match was played between Ranchi NIFT and IGIT, Sarang. IGIT, Sarang Orissa won the Championship.

Chief guest Hon'ble V.C. Dr. Manoj Kumar Mishra of BIT Mesra, Ranchi distributed the prizes to winning teams. For the Honour of Late Abhishek Mishra Cash Prize Rs. 5000/- (Five Thousand Only) and a Trophy had been awarded to Best Sports Person of the year 2014 – 2015 to Mr. Abhishek Kumar, a 2nd year student.

Inter Hostel competitions for various games like Football, Volleyball, Basketball, Table Tennis, Badminton etc was organized and prizes was distributed by the chief guest.

Participants List for Parakram 2015 at ISM Dhanbad

Sl. No.	Name	Event	Medal
1.	Kiran Kisku	100m	Bronze
		200m	Silver
		Long jump	Gold
		4*100m relay	Gold
2.	Vinita Mardi	100m	Silver
		200m	Bronze
		Long jump	Bronze
		High jump	Gold
		4*100m relay	Gold
3.	Tulika Tiwary	400m	Gold
		800m	Gold
4.	Apurwa Nidhi Hassa	Shotput	Gold
		Discuss	Silver
5.	Sonam Singh	High jump	Bronze
		Javelin	Bronze
		Basketball	Silver
6.	Anamika Singh	800m	Bronze
		Basketball	Silver
7.	Rashmi Kujur	4*100m relay	Gold
		Basketball	Silver
8.	Rajeeta Prasad	4*100m relay	Gold
		Basketball	Silver
9.	Monika Yadav	Basketball	Silver
10.	Anu Kispotta	Basketball	Silver
11.	Kumari Shyama	Basketball	Silver
12.	Rama Bindu	Basketball	Silver
13.	Anahita M.L. Thanzauva	Basketball	Silver

Results of Inter Hostel Tournament (Boys)

Table Tennis	1st Position	2nd Position	3rd Position
Institute Captain: Himanshu Raj	Hostel 10 Rishabh (c) Roychowdhury	Hostel 6 Md. Faraaz (c)	Hostel 3 Himanshu Raj (c)
Volleyball	1st Position	2nd Position	3rd Position
Institute Captain: Alok Kumar	Hostel 11 Biplab Parida (c)	Hostel 4 Alok Kumar(c)	Hostel 7 Amit Kumar Bhatnagar (c)
Carrom	1st Position	2nd Position	3rd Position
Institute Captain: Nitesh Kumar	Hostel 11 DebashishChattoraj	Hostel 10 Jitendra Kumar Besra	Hostel 5 Manish
Badminton	1st Position	2nd Position	3rd Position
Institute Captain: Rajan Kumar	Hostel 7 Devbrath Gupta	Hostel 13 Rajan Kumar	Hostel 5 Chiranth
Chess	1st Position	2nd Position	3rd Position
Institute Captain: Manusannipally Santosh Kumar	Hostel 12 Durgesh	Hostel 6 Sandeep	Hostel 7 V. Pawan Kumar

Results of Inter Hostel Tournament (Girls)

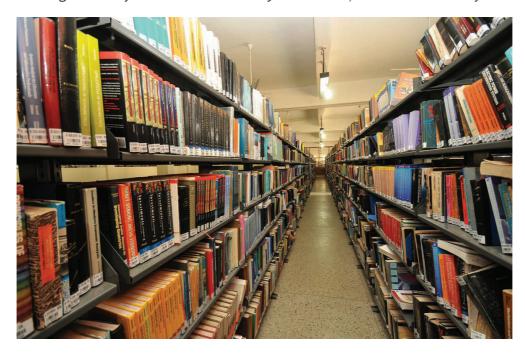
Table Tennis	1st Position	2nd Position	3rd Position
	Hostel 9	Hostel 9	Hostel 8
	Pragya Gupta	Ankita Sarkar	Saripalli Anusha
Volleyball	1st Position	2nd Position	3rd Position
	2K12	2K14	2K11
	Aparna Thakur	Praneeta Banerjee	Kiran Kisku
Carom	1st Position	2nd Position	3rd Position
	Hostel 9	Hostel 9	Hostel 8
	Abha Singh	Meha Anand	Jaya Divyam
Badminton	1st Position	2nd Position	3rd Position
	Hostel 9	Hostel 8	Hostel 9
	Dhriti Nadir	Urvashi Ratna	Sanjukta Mandal
Chess	1st Position	2nd Position	3rd Position
	Hostel 8	Hostel 9	Hostel 9
	Saumya Gupta	Kiran Kisku	Monika Yadav

Awards / Honours

- Dr. Mahendra Kumar nominated as Technical Expert by Indian Register Quality Systems for audit in 1. TATA STEEL Sports Department from 10.03.2015 to 12.03.2015.
- 2. Dr. Mahendra Kumar nominated as Expert by V.B.U. Hazaribagh to verify sports facility in four colleges and to develop sports infra structure at V.B.U. University sports complex.

CENTRAL LIBRARY, BIT-MESRA

(Let knowledge cherish from BIT-Central library to end-user; and so be human life enhanced)



Introduction

The Central Library strives to evolve into a model and leading technical university library. The library contributes and supports BIT in building an internationally top ranked academic & research driven institution by establishing a knowledge hub.

Library automation has been completed through LibSys software. The collection comprises of print and electronic documents in the field of basic science, engineering, pharmacy, management and hotel management. Online journals like IEEE, Science Direct, Springer, IOP, ASME, ASCE and others subscribed through INDEST-AICTE & UGC-INFONET consortium. E-Library section consisting of a number of networked terminals to access e-journals, e-books and other e-reference resources to the library users under Intranet and Internet environment. 10 MBPS leased line connectivity has been installed exclusively for e-library through BSNL India under UGC-INFONET scheme.

Library Mission

The mission of our central Library is to provide comprehensive information to fulfill the needs of the BIT community and to support the Institute's mission to contribute to society through the pursuit of education, teaching, learning and research at the premier levels of excellence.

Library Vision

BIT Central Library make certain that its collections remain forward-looking, diverse in girth and form, unlock to browsing with internationally renowned quality. Through promotion, the Library makes its users aware of the resources available to them, and through innovation, it makes access to these resources easier. To serve potential users, the Library conserves information across all formats and ensures effectual storage and deliverance scheme. The Library's cooperation with expanding circles of associates yields unified access, broadening knowledge, and enhanced services.

Print Books

Total Volumes 1, 42,272 **Total Titles** 45,076 Indian Print Journals/Magazine: 128

Online Journals, Conference

Proceedings, Standards 24,466 CD/ DVD 3,200 **Bound Volumes** 18,512

Library home page http://bitmesra.ac.in/library/default.asp

Library Services Bibliographic services

> **Document Lending Services** E Document Delivery Services

Inter Library Loan Language Laboratory Literature search New arrivals News clippings Off Campus Service

ON/Off line database search

Reference Referral Reprographic

Library Consortium

Central library enrolled its membership for following consortium

- **AICTE-INDEST**
- **UGC-INFONET**

Institutional Membership

- DELNET, New Delhi
- American Library Kolkata

Department wise Books as on June 2015

Sl. No.	Course	Titles Available	Volumes Available
1	Chemistry	2074	8319
2	Mathematics	2140	9263
3	Mechanics	2893	5691
4	Physics	2694	7257

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5	Architecture	1743	2432
6	Biotechnology	1862	3233
7	Civil Engineering	2550	7353
8	ECE	2906	12636
9	CSE	6042	22344
10	IT & MIS	3288	8627
11	EEE	2594	9993
12	Environmental Science & Engineering	772	1311
13	НМСТ	603	3070
14	Management	2570	12403
15	Mechanical Engineering	2431	10617
16	Pharmacy	2881	6552
17	Polymer Engineering	610	3699
18	Production & Engineering	2466	3382
19	Remote Sensing	610	1125
20	Space Engineering & Rocketry	672	1149
21	Others	675	1816
Total		45,076	1,42,272

Details of Print Journals/ Magazines

Sl. No.	Title of Journals	IND / INT	Jr/Mag
1	Advances in Dynamical Systems & Applications	IND	Jr.
2	Annals of Library & Information Studies	IND	Jr.
3	Architecture+ Design	IND	Jr.
4	Asian Journal of Dairy & Food Research	IND	Jr.
5	Asian Journal of Microbiology, Biotechnology and Environmental IND Science		Jr.
6	ATNA: Journal of Tourism & Hospitality Management IND		Jr.
7	Bulletin of Materials Science	IND	Jr.
8	Business Today	IND	Mag.
9	CSIR News	IND	Jr.
10	Current Science	IND	Jr.
11	Defence Science Journals	IND	Jr.
12	DESIDOC Journal of Library and Information Technology	IND	Jr.

13	Economic and Political weekly	IND	Jr.
14	Electrical India	IND	Mag.
15	Electronics Bazar	IND	Mag.
16	Electronics for You	IND	Mag.
17	Every Man's Science	IND	Jr.
18	Global Journal of Theoretical & Applied Mathematical Science	IND	Jr.
19	Herald of Library Science	IND	Jr.
20	IASLIC Bulletin	IND	Jr.
21	IDMA Bulletin	IND	Jr.
22	India Today	IND	Mag.
23	Indian Concrete Journal	IND	Jr.
24	Indian Drugs Journal	IND	Jr.
25	Indian Journal of Applied Hospitality & Tourism Research	IND	Jr.
26	Indian Journal of Beverage and Food World	IND	Jr.
27	Indian Journal of Biochemistry & Biophysics	IND	Jr.
28	Indian Journal of Biomedical Signal Processing	IND	Jr.
29	Indian Journal of Biotechnology	IND	Jr.
30	Indian Journal of Chemical Technology	IND	Jr.
31	Indian Journal of Chemistry Section – A	IND	Jr.
32	Indian Journal of Chemistry Section — B	IND	Jr.
33	Indian journal of computational and applied mathematics	IND	Jr.
34	Indian Journal of Engineering & Materials Sciences	IND	Jr.
35	Indian Journal of Experimental Biology	IND	Jr.
36	Indian Journal of Fibre & Textile Research	IND	Jr.
37	Indian Journal of Finance	IND	Jr.
38	Indian Journal of Geo Marine Sciences	IND	Jr.
39	Indian Journal of Industrial & Production Engineering & Technology	IND	Jr.
40	Indian Journal of Information Library & Society	IND	Jr.
41	Indian Journal of Marketing	IND	Jr.
42	Indian Journal of Mathematical Modeling & Applied Computing	IND	Jr.
43	Indian Journal of Mechanical and Aerospace Engineering	IND	Jr.
44	Indian Journal of Mechanical and Material Engineering	IND	Jr.
45	Indian Journal of Microbiology	IND	Jr.
46	Indian Journal of Natural Products and Resources	IND	Jr.
	Indian Journal of Pharmaceutical Science	IND	Jr.
47	indian southar of Friatmaceutical Science	n \2	
47	Indian Journal of Pharmacology	IND	Jr.

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50	Indian Journal of Power and Energy Systems	IND	Jr.
51	Indian Journal of Production and Quality Testing	IND	Jr.
52	Indian Journal of Pure & Applied Physics	IND	Jr.
53	Indian Journal of Radio & Space Physics	IND	Jr.
54	Indian Journal of Robotics Engineering	IND	Jr.
55	Indian Journal of Traditional Knowledge	IND	Jr.
56	Indian Review of Atomic Physics	IND	Jr.
57	Indian Science Abstracts	IND	Jr.
58	Indian(International) Journal of Chemical Engineering	IND	Jr.
59	Institute of electronics and telecommunication engineers Journal of Review	IND	Jr.
60	Institute of electronics and telecommunication engineers Journal of Research	IND	Jr.
61	Institute of electronics and telecommunication engineers Journal of Education	IND	Jr.
62	Institution of Engineers Journal (India) series D	IND	Jr.
63	International Journal of Computational Science & Mathematics	IND	Jr.
64	International Journal of Computer Science & Information Technology	IND	Jr.
65	International Journal of Data Analysis & Information Systems	IND	Jr.
66	International Journal of Data Warehousing	IND	Jr.
67	International Journal of Ecology & Environmental Sciences	IND	Jr.
68	International Journal of Electrical and Computer Engineering	IND	Jr.
69	International Journal of Electrical Engineering	IND	Jr.
70	International Journal of Electrical Engineering and Embedded Systems	IND	Jr.
71	International Journal of Financial Management	IND	Jr.
72	International Journal of Hospitality & Tourism System	IND	Jr.
73	International journal of Information Dissemination & Technology	IND	Jr.
74	International Journal of Marketing & Human Resource Development	IND	Jr.
75	International Journal of Mathematics and Analysis	IND	Jr.
76	International Journal of Mechanical Engineering & Technology	IND	Jr.
77	Journal of (CPRI) Centre for Water and Power Research	IND	Jr.
78	Journal of Aerospace Sciences and Technologies	IND	Jr.
79	Journal of Astrophysics and Astronomy	IND	Jr.
80	Journal of Biosciences	IND	Jr.
81	Journal of Chemical Sciences	IND	Jr.
82	Journal of Computing	IND	Jr.
83	Journal of Earth System Science	IND	Jr.
84	Journal of Environmental Engineering Science	IND	Jr.

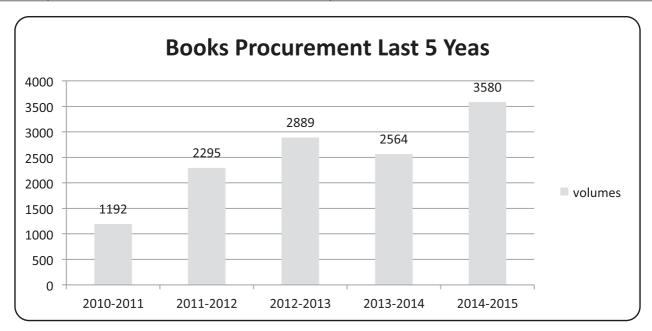
85	Journal of Environmental Research & Development	IND	Jr.
86	Journal of Genetics	IND	Jr.
87	Journal of Geological Society of India	IND	Jr.
88	Journal of Geomatics	IND	Jr.
89	Journal of Indian society for technical education	IND	Jr.
90	Journal of Indian Society for Water Resources	IND	Jr.
91	Journal of Indian Society of Remote Sensing	IND	Jr.
92	Journal of Institution of Engineers (India); Series C	IND	Jr.
93	Journal of Intellectual Property Rights	IND	Jr.
94	Journal of Landscape Architecture	IND	Jr.
95	Journal of Mechanical Engineering Research and development	IND	Jr.
96	Journal of Modern Manufacturing Technology	IND	Jr.
97	Journal of Optics (India)	IND	Jr.
98	Journal of Polymer Materials	IND	Jr.
99	Journal of Production & Quality Engineering	IND	Jr.
100	Journal of Production Research & Management	IND	Jr.
101	Journal of Resources, Energy & Development	IND	Jr.
102	Journal of Rock Mechanics & Tunneling Technology	IND	Jr.
103	Journal of Scientific & Industrial Research	IND	Jr.
104	Journal of the Indian Chemical Society	IND	Jr.
105	Journal of the Indian Medical Association	IND	Jr.
106	Journal of the Indian Society of Toxicology	IND	Jr.
107	Journal of the Institution of Engineers (India), Series B	IND	Jr.
108	Journal of the Institution of Engineers (India): Series A	IND	Jr.
109	Medicinal & Aromatic Plants Abstracts	IND	Jr.
110	New Advances In Physics	IND	Jr.
111	Oriental Journal Of Physics	IND	Jr.
112	Outlook	IND	Mag.
113	Outlook Business	IND	Mag.
114	Pesticide research Journal	IND	Jr.
115	Pharmacognosy Magazine	IND	Jr.
116	Pramana-Journal of Physics	IND	Jr.
117	Proceedings-Mathematical Science	IND	Jr.
118	Resonance-Journal of Science Education	IND	Jr.
119	Sadhana	IND	Jr.
120	Spandrel	IND	Jr.
121	Spatio-economic Development Record	IND	Jr.

122	SRELS Journal of Information Management	IND	Jr.
123	The Economist	INT	Mag.
124	The Indian Forester	IND	Jr.
125	The Week	IND	Mag.
126	Time	INT	Mag.
127	Tourism and Travel Journal	IND	Jr.
128	Water & Energy International	IND	Jr.

Abstract/ Full Text Online Journals/books/thesis & dissertations

SN	Publishers	Web Link
1	ABI/Inform (Management Collection)	http://search.proquest.com
2	American Chemical Society	http://pubs.acs.org
3	American Institute of Physics	http://www.aip.org
4	American Physical Society	http://www.aps.org
5	Annual Reviews	http://www.annualreviews.org
6	ASCE Journals	http://scitation.aip.org/browse/by_publisher#ASCE
7	ASME (including AMR)	http://scitation.aip.org/browse/by_publisher#ASME
8	Bentham Science	http://www.ingentaconnect.com/content/ben
9	Cambridge Online Books	http://ebooks.cambridge.org
10	Cambridge University Press	http://journals.cambridge.org
11	EBSCO Databases(Business Source Elite, Art & Architecture, Hospitality & Tourism Complete	http://web.ebscohost.com
12	Economic & Political Weekly	http://www.epw.in
13	Elsevier's Science Direct	http://www.sciencedirect.com
14	Emerald (Management)	http:www.emeraldinsight.com
15	Grammarly (Online Grammar & Spell checker)	http://www.grammarly.com/edu
16	IEEE/IEL Online	http://ieeexplore.ieee.org/Xplore
17	Institute of Physics	http://iopscience.iop.org/journals
18	ISID (Bibliographic Database)	http://isid.org.in
19	JCCC (Bibliographic Database)	http://www.jccc-ugcinfonet.in
20	McGraw Hills Access Engineering	www.digitalengineeringlibrary.com
21	Oxford University Press	http://www.oxfordjournals.org
22	Project Muse	http://muse.jhu.edu/browse
23	Pro Quest Dissertation & Theses	http://search.proquest.com
24	Royal Society of Chemistry	http://www.rsc.org

25	Sci Finder Scholar (Bibliographic Database)	http://cas.org/products/scifindr/index.html
26	SIAM	http://epubs.siam.org
27	Springer Link	http://www.springerlink.com
28	Taylor & Francis	http://www.tandfonline.com
29	Turnitin Ant plagiarism Software	http://www.turnitin.com
30	Web of Science (Bibliographic Database)	http://apps.webofknowledge.com
31	Wiley-Blackwell	http://onlinelibrary.wiley.com



Year wise Books Procurement (including Book Bank)

Library Team

Name **Designation**

I/C Librarian Dr. Vijayakumar M

Ms Rita Sinha Assistant Librarian Mr. Debojyoti Nath Information Scientist

Ms. Shamida Lakra Assistant Librarian

Mr. Mohan Mahto Senior Library & Information Assistant

Mr. Amitab Kumar Manglam Library & Information Assistant Mr. Brajesh Kumar Library & Information Assistant Library & Information Assistant Ms. Rameswari Pandey

Library Statistics of 2014-15

Total Books Added Title - 932 & Volumes - 3,580 **Total Journals Procured** Print - 98 & Online - 6,519

Total Number of Membership enrolled 1,469

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Total Number of Books Issued : 61683

Total Number of Books Returned : 60355

New Implementation : 5 New Computers procured for Digital Library.

Library Achievements:

1. In collaboration with JILA-Ranchi & IRDA-Ranchi, BIT Mesra conducted Librarians day cum one day workshop on "Design and Development of Library Web portals" on 21 September 2014 at our campus (Birla Institute of Technology - Mesra, Ranchi)

2. Three days national workshop training on "Web Discovery Tools and Services" during 16-18th March 2015, held at Central Library, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, INDIA (NASSDOC-ICSSR Sponsored).

Publications

- Vijayakumar M and Manoj Kumar K.S. Conflict Management in Management Library Professionals, DESIDOC Journal of Library & Information Technology, Vol. 35, No. 3, 2015, pp. 200-206 ((pISSN: 0974-0643 eISSN: 0976-4658))
- 2. Debojyoti Nath and Vijayakumar M, Detecting integrity of scholarly communications: An approach through TURNITIN, INFOLIB, 2014, Vol. 7 (1-4) p 153-156 [ISSN:0974-0686]
- 3. Vijayakumar M and others, Open Source Software : a Gift to Develop Libraries, INFOLIB, 2014, Vol. 7 (1-4) p132-137, [ISSN:0974-0686]
- 4. Vijayakumar M, Consortia Approach to Academic Library Systems in Digital Environment, INFOLIB, 2014, Vol. 7 (1-4) p24-29, [ISSN:0974-0686]
- 5. SWOT Analysis of Electronic Resource. National Conference on Emerging Trends and Techniques for Electronic Resource Management in Libraries during 13-14 February 2015, conducted by Central Library, NIT-Rourkela, Orissa
- Vision to Bridge the Gap for Jharkhand Libraries. Paper presented in One Day Seminar on "Role of a Librarian in the Changed Global Scenario" held at IE (India) Conference Hall, Jamshedpur on 14th September 2014
- 7. Debojyoti Nath and Vijayakumar M, Detecting integrity of scholarly communications: An approach through TURNITIN, INFOLIB, 2014, Vol. 7 (1-4) p 153-156 [ISSN:0974-0686]

Other Important Information

- 1. Dr. Vijayakumar M was invited as an "Interview Board Chairman" by Jawahar Navodaya Vidyalaya, Ranchi (12-06-2015)
- 2. Dr. Vijayakumar M was invited as a "Member for Internal Evaluation Committee" at CSIR-CIMFR Dhanbad (23-07-2015)
- 3. Dr. Vijayakumar M was invited as an "External Examiner for MLISc Program" by Jamshedpur Women's College. (01-08-2015)
- 4. Dr. Vijayakumar M was invited by Nirmala College to install the KOHA: An Open source software.

TRAINING & PLACEMENT DIVISION

Campus Recruitment Programme 2014-15

Overview

Total number of recruiters, who visited the campus is 103 from across different sectors of the industry.

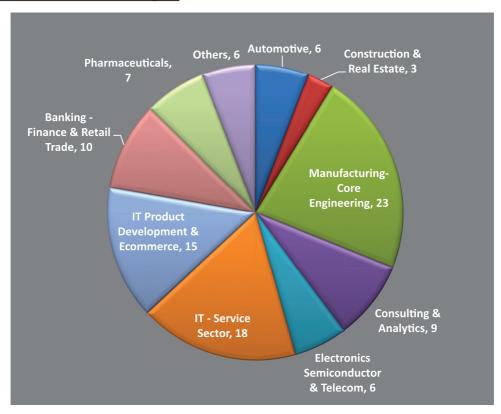
Major recruiters ranging from Investment Banks to Consulting and Analytics, Automobile to Heavy Engineering and Infrastructure, IT Product - Services to e-Commerce companies Pharmaceuticals to Insurance companies visited the campus and recruited from the BIT talent pool.

25 recruiters visited BIT campus for the first time this year and the process yielded satisfactory results.

Total of 83% of the total registered BE students of BIT Mesra are placed. A total of 1458 offers (in all programmes) generated this year and several meritorious students have received multiple offers.

The BE students of Mesra Campus, a total of 561 registered eligible students, received a total of 701 offers. 91% students from Comp. Sc., 87% from Electronics & Comm. & 77% from Information Technology have got placed in high-end Consulting & Analytical and IT Product & Services companies. 80% of the Mechanical Engineering, 82% of Production Engineering and 96% of Electrical Engineering students got offers from different Core Engineering companies and high-end Consulting-Analytical & IT companies. Likewise, 83%,86%,65% and 65% of students from Chemical & Polymer, Chemical, Civil and Bio-Engineering respectively opted for jobs in different Core & IT sectors.

Sector-wise Recruiters on Campus



9. Training session on Resume Building, GD & PI by B-Factory, Ranchi from 7th to 14th& 21st to 22nd of February 2014 for Final Year UG & PG Students.

Internship Opportunities generated at

Company Name	No. of Students	Company Name	No. of Students
Amazon	3	Microsoft	7
Colgate Palmolive	4	Nomura	4
Directi	1	Nomura Research Institute	10
EKO India Jain	1	Nvidia	1
Ericsson India	2	Samsung SRI NOIDA	8
EXL Services	5	SAP Lab	4
Fastenal	3	Sapient	23
Flipkart	1	State Bank of India	6
Freescale	1	Snapdeal	1
Goldman Sachs	4	Sterlite Technologies Ltd.	1
Hero MotoCorp Ltd.	1	ST Microelectronics	4
HP India	3	Tata Hitachi	2
Infosys	9	Tata Motors	5
Mahindra Comviva	1	Tata Steel	4

List of Recruiters on Campus

Sr.	Name of The Recruiter	Sector
1	Hero MotoCorp	Automotive
2	Hyundai Motors	Automotive
3	Mahindra & Mahindra	Automotive
4	Maruti Suzuki	Automotive
5	Tata Hitachi Ltd.	Automotive
6	Tata Motors	Automotive
7	Arohan Financial	Banking - Finance & Retail Trade
8	Axis Bank	Banking - Finance & Retail Trade
9	Capital IQ	Banking - Finance & Retail Trade
10	HDFC Bank	Banking - Finance & Retail Trade
11	ICICI Bank	Banking - Finance & Retail Trade
12	ICICI Securities	Banking - Finance & Retail Trade
13	Mahindra Finance	Banking - Finance & Retail Trade
14	Pantaloons	Banking - Finance & Retail Trade
15	RTM Marketing	Banking - Finance & Retail Trade
16	Tata AIG	Banking - Finance & Retail Trade
17	Era Group	Construction & Real Estate
18	L&T Construction	Construction & Real Estate

Compensation

This year as of now the Salary Details for BE students is:

Maximum Salary (International) from EPIC of US\$ 90,000 (Approx. 60 Lakhs)

Maximum Salary (Domestic) : 21.73 lac per annum

Average Salary : 7.1 lac per annum

Other Activities

Several activities were organised and Internship opportunities generated during this period through the sustaining tie-ups with the various leading recruiters:

- 1. BIT, MESRA, with Cognizant Technology Solutions organised the 'Cognizant CEO's Challenge' Programme and the 5 selected students shall be given the opportunity to work on a live project.
- 2. The academic interface programme of TCS to give away the Best Student and Best Project Awards consisting of Gold Medals and cash prizes on 10th April 2015.
- 3. Lecture on 'Industry and Leadership' by our Alumnus Dr. Ganesh Natarajan, Vice Chairman and CEO, Zensar Technologies on 27th March 2015 Final Year UG & PG Students.
- 4. Lecture on 'Leadership' by Mr. M M Singh, Alumnus & Chief Operating Officer, Maruti Suzuki India Ltd on 22nd July 2014.
- 5. BARC-Outreach Programme 2014-15 conducted on 2-3 Feb. 2015 by Shri Kailash Agrawal, GM Nuclear Recycle Board & Dr. Pankaj Kumar Patro, Scientific Officer, Powder Metallurgy Division, BARC

Workshops/ Sessions conducted in association with Industries:

- 1. Session on Self Motivation & Development by Swaasthya Consulting, Bangalore from 19th to 20th July 2014 for BIT Mesra and its Extension Centres.
- 2. Workshops on 'Introduction to ERP-Oracle Applications' by TCS on 21st July 2014 by Mr. Abhijit Banerjee of TCS for UG & PG Final Year Students.
- 3. Training session on Resume Building, GD & PI by B-Factory, Ranchi from 21st to 26th of July 2014 for Final Year UG & PG Students.
- 4. A PAN-BIT Cognizant Certified Student Program (CCSP) was conducted by Cognizant on 26th 27th July 2014.
- 5. A PAN-BIT assessment process AMCAT was conducted by Aspiring Minds for all final year UG & PG Students on 29th 30th July 2014 in BIT Mesra.
- 6. Workshops on 'Grooming for IT Industry' by TCS on 18th Sep. 2014 by Mr. Kushal Banerjee for Final/pre-final year engineering/MCA students.
- 7. IBM organized a Workshop on 'IBM Solution called Blue Mix on the 27th of Sept., 2014 exclusively for the Faculty members and students (3rd Year) of EEE, ECE, CS and IT Departments of BIT, Mesra.
- 8. Workshops on 'EIS: Fusion of Core Engineering & IT' by TCS on 10th April. 2015 by Mr. Deb Ghosh for Final Year UG & PG Students.

19	S K Samanta *	Construction & Real Estate
20	Blueocean *	Consulting & Analytics
21	Directi	Consulting & Analytics
22	EXL Services	Consulting & Analytics
23	Goldman Sachs	Consulting & Analytics
24	Musigma	Consulting & Analytics
25	Nomura	Consulting & Analytics
26	Nomura RI	Consulting & Analytics
27	PWC	Consulting & Analytics
28	Stellium	Consulting & Analytics
29	Freescale	Electronics Semiconductor & Telecom
30	Idea Cellular	Electronics Semiconductor & Telecom
31	Reliance Communication *	Electronics Semiconductor & Telecom
32	Snankalp Semiconductor	Electronics Semiconductor & Telecom
33	Tata Teleservices Ltd	Electronics Semiconductor & Telecom
34	Vodafone	Electronics Semiconductor & Telecom
35	Capital Via *	IT - Service Sector
36	Chanchalaa Technologies *	IT - Service Sector
37	Cognizant	IT - Service Sector
38	Cybage	IT - Service Sector
39	Daffodils *	IT - Service Sector
40	Ericsson India	IT - Service Sector
41	IBM	IT - Service Sector
42	Infosys	IT - Service Sector
43	Intellicut *	IT - Service Sector
44	Mahindra Comviva	IT - Service Sector
45	Nucleus Software	IT - Service Sector
46	Pinnacle Infotech	IT - Service Sector
47	Sapient	IT - Service Sector
48	Tech Mahindra	IT - Service Sector
49	Verizon	IT - Service Sector
50	Wipro	IT - Service Sector
51	Xceedance *	IT - Service Sector
52	XL Dynamics	IT - Service Sector
53	Amazon	IT Product Development & Ecommerce
54	Amdocs	IT Product Development & Ecommerce
55	Coupon Dunia *	IT Product Development & Ecommerce
56	DE Shaw	IT Product Development & Ecommerce
57	Flipkart	IT Product Development & Ecommerce
58	HP	IT Product Development & Ecommerce
59	Indiamart *	IT Product Development & Ecommerce
60	Lindstrom *	IT Product Development & Ecommerce
61	Microsoft	IT Product Development & Ecommerce

63 Oracle Server 64 Practo * 64 Practo * 65 Samsung SRI 66 SAP labs 67 Snapdeal * 68 Asahi India Glass * 69 Avtec 68 Asahi India Glass * 69 Avtec 69 Manufacturing-Core Engineering 70 Bajaj Electricals 71 Bluestar 72 Electrosteel Ltd. 73 Exide 74 Fastenal * 75 Gmmco Ltd. 76 Haul 77 HIL 77 HIL 78 JSW Steel Ltd 79 Magneti Mareli 79 Magneti Mareli 70 Magneti Mareli 71 Balusting-Core Engineering 72 Bajas Manufacturing-Core Engineering 73 Exide 74 Fastenal * 75 Manufacturing-Core Engineering 76 Hauelis 77 Hill 78 JSW Steel Ltd 79 Magneti Mareli 79 Magneti Mareli 80 NBC Bearing 81 Pumpsense Fluid * 82 Reliance Industries 83 Saint Gobain * 84 Shahi Exports 85 Siegwerk 86 Sterlite 87 Tata Power 88 Tata Steel 89 Manufacturing-Core Engineering 89 Timken 90 Timken 91 Macleds Manufacturing-Core Engineering 91 Abbott * 92 ACG Pharma 94 Dr. Reddy's 95 Macledost Pharma 94 Dr. Reddy's 95 Macledost Pharma	62	Oracle OFSS	IT Product Development & Ecommerce
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91 Abbott * Pharmaceuticals 92 ACG Pharma * Pharmaceuticals 93 Alkem Pharmaceuticals 94 Dr. Reddy's Pharmaceuticals 95 Macleods Pharma Pharmaceuticals	89	Tata Technology Ltd.	Manufacturing-Core Engineering
92 ACG Pharma * Pharmaceuticals 93 Alkem Pharmaceuticals 94 Dr. Reddy's Pharmaceuticals 95 Macleods Pharma Pharmaceuticals	90	Timken	Manufacturing-Core Engineering
93 Alkem Pharmaceuticals 94 Dr. Reddy's Pharmaceuticals 95 Macleods Pharma Pharmaceuticals	91	Abbott *	Pharmaceuticals
94Dr. Reddy'sPharmaceuticals95Macleods PharmaPharmaceuticals	92	ACG Pharma *	Pharmaceuticals
95 Macleods Pharma Pharmaceuticals	93	Alkem	Pharmaceuticals
	94	Dr. Reddy's	Pharmaceuticals
	95	Macleods Pharma	Pharmaceuticals
96 Medall Health Care * Pharmaceuticals	96	Medall Health Care *	Pharmaceuticals
97 Ranbaxy Pharmaceuticals	97	Ranbaxy	Pharmaceuticals
98 Avanti * Others	98	Avanti *	Others
99 Citizen Alliance * Others	99	Citizen Alliance *	Others
100 Dainik Bhaskar * Others	100		
101 Naukri.com Others	101	Naukri.com	Others
102 Nestlé India Ltd. Others		Nestlé India Ltd.	
103 Think & Learn * Others	103	Think & Learn *	Others

^{*}These companies were the "First time" participants in the Campus Recruitment Programme of BIT.

STUDENTS' ACTIVITIES



Birla Institute of Technology, Mesra Ranchi has 18 clubs and societies. These clubs/societies organize events through out the year. Some of the activities are mentioned below:

Technical Events organised / achievements

- C/C++ workshop 21st August 2014
- Ethical Hacking workshop 7th and 8th February 2015
- Up in the air -20th March 2015
- Project X 11th April 2015
- Technosight -11th April-15
- Google it Out April-15
- The Ultimate Engineer- April -15
- Web Development Basics- March-15

- Team Srijan stood 3rd in the national level rules quiz organised by Formula Student India on June
 22nd at BIT campus
- Team Firebolt represented the college for the BAJA SAE India 2015 virtual round during August 1-2, 2014 at Gandhinagar, Gujrat
- Team Srijan participated in Formula Design Challenge held at Kari Motor Speedway, Coimbatore during January 19th- 25th, 2015. Overall result is as follows: Overall Rank: 7th Design Event: 8th, Cost Event: 14th, Sales Event: 9th
- Team Firebolt participated in BAJA Student India during January 5th 19th, 2015 at NIT Jamshedpur and achieved the following rankings: Overall Rank: 16th, Design Event: 8th, Cost Event: 5th, Sales Event: 15th, Acceleration: 16th, Weight Pulling: 10th, Hill Climb: 20th, Manoeuvrability: 13th, Endurance Event: 20th
- Vikrant Nanda of ECE received 2nd prize in Texas Instruments Analog Circuit Design Challenge 2014

Social and Cultural Events organized / achievements

- Karan Dhawan, Roll No.- BARCH/10030/2012 was winner at AIU, All India National Youth Festival in Photography, 2014-15 held at DAV, Indore
- Divya Pandey, Roll No.: BARCH/10004/2014 and Sadhana Kundu, Roll No.: ICH/10012/2014 are the finalists of International RAWA (Jharkhand State Level from Sep 2015), who will represent the state in nationals
- Rotaract club organized Treasure hunt, Esperanza
- Blood Donation Camp:- On 14th March 2015 a Blood Donation Camp was held at BIT Dispensary.
 This noble cause was organized by NSS in association with EDC, Rotaract Club, Leo Club and NCC.
- Flying Panda secured 3rd position at Spring Fest IIT Kharagpur, 1st position at Sargam Alcheringa
 IIT Guwahati and 1st position at XISS Panache 2015
- Fine Art Society organised Charcoal Workshops, Sketching Workshop
- Somnath Mukherjee received Gold medal in All India painting competition, Delhi, 2015
- Ehsaas Dramatics Society BIT Mesra organised a Nukkad Natak on 26th Jan 2015 on the topic "WOMEN EMPOWERMENT", A NUKKAD NATAK was performed by 1st and 2nd year students on 15th Aug 2014 on the topic "THE RIGHT PATH VERSUS THE EASIER PATH".
- Creative Arts organized its annual fest cum end sem exam for the students of creative arts with the theme "Bharat Vishwaguru" under the supervision of In-Charge Mr. Mrinal Pathak on 16th and 17th of April, 2015.



ANNEXURE - I

MEMBERS OF THE GENERAL COUNCIL

Members of the General Council

I **Founder Members** Shri C.K. Birla

Chairman, Board of Governors

Birla Tower (9th Floor)

25, Barakhamba Road

New Delhi- 110 001

Shri S.L. Bhatter

C/o Hindustan Motors Ltd.

10th Floor, Birla Building

9/1, R.N. Mukherjee Road

Kolkata- 700 001

Dr. A. K. Chatterjee

9/11, Moore Avenue

Kolkata

Shri Sarosh Ghandy

45, Museum Road

Bangalore-560 025

H. E. Dr. A. R. Kidwai

Government of Haryana

Raj Bhavan

Chandigarh

Shri D. N. Patodia

45, Akash Neem Marg

DLF City Phase-II

Gurgaon- 122 001

Dr. Karan Singh

3, Nyaya Marg

Chanakyapuri

New Delhi

II Life Members

Dr. H. C. Pande

1/97, Vijay Khand-I

Gomti Nagar

Lucknow-226 010

Shri Mohammed Yousif Jalal

Mohammed Jalal & Sons WLL.

P.O. Box: - 113, Manama

Kingdom of Bahrain

H. E. Dr. Oman Bin Abdul Muniem

Al-Zawawi

Oman Zawawi Establishment (OMAFST)

P.O. Box. - 879

P.C. 113, MUSCAT

Sultanate of Oman

Ш **Corporate Members**

Shri Rohit Saboo

M/s National Engineering Industries Ltd.

Khatipura Road

Jaipur- 302 006

Shri M. L. Pachisia

9/1, R. N. Mukherjee Road

Kolkata-700 001

Dr. P Ghosh

M/s Birla Science & Technology Centre

Stature Circle

Jaipur- 302 005

Shri P. C. Agarwal

9/1, R. N. Mukherjee Road

Kolkata- 700 001

Shri T. E. S. Vardhan

Birla Tower (8th Floor)

25. Barakhamba Road

New Delhi- 110 001

Members by Representative

Director (Central University)

(Nominee of MHRD, Govt. of India) Dept. of Higher Education

Shastri Bhawan

New Delhi- 110 001

Prof. R. P. Kaushik

(Nominee of UGC) G-19/19, DLF, Phase-I Gurgaon- 124 022

Shri H. K. Mittal

Adviser & Head (NEB)
Department of Science & Technology
Govt. of India
New Delhi- 110 016

Dr. Pradipta Banerjee

Director

IIT, Roorkee- 247 667

Shri L. Khiangtae, IAS

Principal Secretary
Department of Science & Technology
Govt. of Jharkhand
Nepal House, Doranda
Ranchi

Shri S. S. Jajodia Ji

78, Syed Amir Ali Avenue Kolkata – 700 019

Dr. M. K. Mishra

Vice-Chancellor B.I.T, Mesra, Ranchi

Alumni Members

Dr. H. S. Sagar

Director
Sant Baba Bhag Singh
Institute of Engineering & Technology
Padhiana (Near Adampur Doaba)
Jalandhar _ 144 033

Shri D. Sahay

27, Kali Babu Street Ranchi – 834 001

ANNEXURE – II

MEMBERS OF THE BOARD OF GOVERNORS

1. Shri C. K. Birla Chairman

Birla Tower (9th Floor) 25, Barakhamba Road NEW DELHI - 110 001

Nominee of MHRD 2. **Director (Central University)**

Nominee of MHRD, Govt, of India Govt. of India

Dept. of Higher Education

Shastri Bhawan NEW DELHI - 110 001

3. Nominee of UGC Dr. (Mrs.) Renu Batra

Joint Secretary University Grants Commission Bahadur Shah Zafar Marg NEW DELHI - 110 002

4. Dr. Pradipta Banerjee Nominee of AICTE

Director

Indian Institute of Technology

Roorkee - 247 667

5. Shri L. Khiangtae, IAS (Ex-Officio)

Principal Secretary

Dept. of Science & Technology

Government of Jharkhand

Nepal House

Doranda

RANCHI - 834 002

Mrs. Aradhana Patnaik, IAS **6**. (Ex-Officio)

Principal Secretary

Department of Human Resource Development

Government of Jharkhand

Project Bhawan

Dhurwa

RANCHI - 834 002

7. Dr. K. K. Khandelwal, IAS (Ex-Officio)

Commissioner

South Chhotanagpur Division,

Jharkhand

RANCHI - 834 001

8. Dr. Nitin Madan Kulkarni, IAS

Principal Secretary to the Governor Hon'ble Governor of Jharkhand Raj Bhawan, RANCHI – 834 001

9. Shri M.L. Pachisia

9/1, R.N. Mukherjee Road KOLKATA – 700 001

10. Shri Rohit Saboo

M/s. National Engineering Industries Ltd. Khatipura Road JAIPUR – 302 006

11. Dr. Manoj Kumar Mishra

Vice Chancellor BIT, Mesra RANCHI – 835 215

12. Dr. J. K. Prasad

Professor BIT, Mesra RANCHI – 835 215

13. Dr. (Ms.) Prabjot Kaur

Assistant Professor BIT, Mesra RANCHI – 835 215

14. Shri D.N. Patodia

45, Akash Neem Marg DLF City, Phase II GURGAON – 122 001

15. Dr. P. Ghosh

M/s. B.M. Birla Science & Technology Statue Circle JAIPUR – 302 005

16. Dr. Arup Roy Choudhury

Chairman and Managing Director NTPC Ltd., NTPC Bhawan, Core – 7, SCOPE Complex, 7 – Lodi Road NEW DELHI – 110 003

17. Shri S. N. Agarwal

Chairman Bhoruka Power Ltd. 48, Lavelle Road Bangalore – 560 001 Nominee of the Chancellor

Nominee of HCT

Nominee of HCT

Vice Chancellor BIT Mesra, Ranchi

Institute Faculty

Institute Faculty

Nominee of General Council

Nominee of the General Council

Nominee of the General Council

Nominee of HCT

ANNEXURE - III

MEMBERS OF THE FINANCE COMMITTEE

Members of the Finance Committee

1. Shri C. K. Birla

Birla Tower (9th Floor)

25, Barakhamba Road

New Delhi – 110 001

2. Dr. M. K. Mishra

Vice Chancellor, BIT, Mesra

RANCHI

3. Prof. Jose Varghese

Professor of Eminence

Christ University

(Deemed University)

Hosur Road

BANGALORE - 560 029

4. Dr. Nitin Madan Kulkarni, IAS

Principal Secretary to the Hon'ble Governor

Governor Secretariat

Raj Bhawan

RANCHI

5. Shri P. C. Agarwala

9/1, R. N. Mukherjee Road

KOLKATA - 700 001

Shri Rohit Saboo

M/s National Engineering Industries Ltd.

JAIPUR - 302 017

7. Shri S. S. Jajodia

Honorary Treasurer, BIT, Mesra

78, Syed Amir Ali Avenue

KOLKATA - 700 019

ANNEXURE - IV

THE BUILDING &WORKS COMMITTEE

1) Vice Chancellor - Chairman

2) HoD (Architecture) - Member

3) HoD (Civil Engg.) - Member

4) Addl. Registrar (Fin.) - Member

5) Dy. Comptroller - Member

6) Dy. Registrar-II - Member

7) In-Charge (Constr.) - Member Secretary

ANNEXURE - V

ACADEMIC COUNCIL

Sl.No.	Members of the Academic Council		
1.	Dr. M.K. Mishra, Vice Chancellor		
2.	Dr. D. Sasmal, B.M. Birla Distinguished Service Professor		
3.	Dr. Mohan Varma, Professor, Space Engg. & Rocketry		
4.	Dr. G. Sahoo, Dean (Admn. & Acad. Coord.)		
5.	Dr. (Mrs.) Mandira Mukherjee, Professor, CE&T		
6.	Dr. Gopal Pathak, HoD, Civil & Environmental Engg.		
7.	Dr. R. Sukesh Kumar, Dean (Faculty Affairs)		
8.	Prof. A.K. Ray, Professor, Mech. Engg.		
9.	Dr. (Mrs.) Usha Jha, Prof. Chemistry		
10.	Dr. (Mrs.) M. Chakraborty, Professor, Architecture		
11.	Dr. P.R.P. Verma, Prof. Pharm. Sciences & Technology		
12.	Dr. S.K. Bose, Dean (Alumni & International Relations)		
13.	Dr. (Mrs.) Nisha Gupta, Professor, Electronics & Comm. Engg.		
14	Dr. S.K. Ghorai, Professor, Electronics & Comm. Engg.		
15.	Dr. Swapan Konar, Professor & Head, Physics		
16.	Dr. Nilanchal Patel, Director, STEP		
17.	Dr. Balram Singh, Prof. In-charge, Water Resource Management		
18.	Dr. S.K. Chakraborty, Professor, Mathematics		
19.	Dr. B.N. Sinha, Professor & HoD, Pharm. Science & Tech.		
20.	Prof. Anand Kumar Sinha, Prof. Dept. of Civil & Environmental Engg.		
21.	Dr. Arbind Kumar-I, Prof. Mechanical Engg.		
22.	Dr. T. Ghose, Dean (Sponsored Research)		
23.	Dr. Bijay Kr. Singh, Dean (Academic Programme)		
24.	Dr. S.K. Jain, Professor & HoD, Mathematics		
25.	Dr. D. J. Biswas, Professor & HoD, Architecture		
26.	Dr. Kunal Mukhopadhyay, Professor & HoD, Bio-Engineering		
27.	Dr. A.P. Krishna, Professor & HoD, Remote Sensing		
28.	Dr. Utpal Baul, Professor & HoD, Management		
29.	Dr. Amar Nath Jha, I/c. Lalpur Off campus		
30.	Dr. Subir Samanta, Prof. Pharm. Sciences & Technology		
31.	Dr. S. Jha, Prof. Pharm. Sciences & Technology		
32.	Dr. D.K. Mohanta, Professor, Electrical & Electronics Engg.		
33.	Dr. Manju Bhagat, Professor, Management		
34.	Dr. Shradha Shivani, Professor, Management		
35.	Dr. R.C. Jha, Professor & HoD, Electrical & Electronics Engg.		
36.	Dr. Jeganathan Chockalingam, Professor, Remote Sensing		

37.	Dr. Vinay Sharma, Professor & HoD, Prod. Engg.
38.	Dr. (Mrs.) Sunita Keshri, Professor, Physics
39.	Dr. R.N. Gupta, Professor, Pharm. Science & Tech.
40.	Dr. Sreekanta Paul, Professor, Electronics & Comm. Engg.
41.	Dr. Vibha R. Gupta, Professor & HoD, Electronics & Comm. Engg.
42.	Dr. Sudeshna Chakraborty, Professor, Civil & Env. Engg.
43.	Dr. (Mrs.) Padmini Padmanabhan, Professor, Bio-Engineering
44.	Dr. Arvind Kumar-II, Professor & HoD, Mech. Engg.
45.	Dr. Gautam Sarkhel, Professor & HoD, Chemical Engg. & Tech.
46.	Dr. Sandip Dutta, HoD, Computer Sc. & Engg.
47.	Dr. S. Padhi, Controller of Examinations
48.	Dr. R.N. Bhagat, Professor, Management
49.	Dr. J.P. Pandey, HoD, Chemistry
50.	Dr. Bimal Kumar Mishra, Dean (Students Welfare)
51.	Mr. Praveen Srivastava, In-charge, HMCT
52	Dr. R.K. Sinha, Professor, Bio-Engineering
53.	Dr. Ramesh Chandra, Professor, Bio-Engineering
54.	Dr. R.P. Sharma, Professor, Mechanical Engg.
55.	Dr. Souvik Chakraborty, Professor, Mathematics
56.	Dr. Sudipta Goswami, Professor, CE&T
57.	Dr. Swastika Ganguly, Professor, Pharm. Sciences & Technology

CHANCELLOR'S NOMINEES

Members - Academic Council:

1. Engineering:

Shri Siddh Nath Singh

B-203, Siddhi Vinayak Apartment 2480534

Behind Hotel Yuvraj Palace

Doranda

RANCHI - 834 002.

2. Science:

Dr. Madhukar S. Bhat

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Kadru

RANCHI.

3. Humanities:

Dr. Krishna Kumar

"Ashray"

30, Kalibabu Street

Behind Civil Court

Ranchi – 834 001.

ANNEXURE - VI

HEAD OF THE DEPARTMENTS

Sl. No.	Name	Department
1	Dr. D. J. Biswas	Architecture
2	Dr. J. P. Pandey	Chemistry
3	Dr. Saral Kumar Jain	Mathematics
4	Dr. Arbind Kumar - II	Mechanical Engineering
5	Dr. Swapan Konar	Physics
6	Dr. Kunal Mukhopadhyay	Bio-Engineering
7	Dr. Gopal Pathak	Civil & Environmental Engineering
8	Dr. Gautam Sarkhel	Chemical Engineering & Technology
9	Dr. Sandip Dutta	Computer Science & Engineering
10	Dr. (Mrs.) Vibha Rani Gupta	Electronics & Communication Engg
11	Dr. R. C. Jha	Electrical & Electronics Engineering
12	Sri Praveen Srivastava *	Hotel Management & CT
13	Dr. Utpal Baul	Management
14	Dr. B. N. Sinha	Pharmaceutical Science & Technology
15	Dr. Vinay Sharma	Production Engineering
16	Dr. A. P. Krishna	Remote Sensing
17	Dr. Mohan Varma	Space Engineering & Rocketry

^{*} In-charge

ANNEXURE - VII

ADDRESS OF THE CAMPUSES

Sl. No.		Sl. No.	
1	BIT Off Campus, Allahabad B-7, Industrial Area P.O. TSL, Naini Allahabad – 211 010 (U.P) Phone :0532- 2686668/2687363 Fax: 2687554	6	BIT Off Campus, NOIDA A-7, Sector-1 NOIDA-201301 Phone: 0120-2543484/2553661/ 3662 Fax: 2554146
2	BIT Off Campus, Deoghar Jasidih Deoghar- 814132 Fax: 06432- 292565	7	BIT Off Campus, Patna Near Patna Airport, P.O. Bihar University College Patna -800014 Phone: 0612- 2223545 /3200853 Fax: 2223545
3	BIT Off Campus, Jaipur B.S.I.R. Campus 27, Malviya Industrial Area Jaipur – 302017 Phone: 0141-4019798/4019812 Fax: 2751614	8	BIT Off-Shore Campus, Muscat Waljat College of Applied Science P.O. Box No. 197, Rusayal Postal Code – 124 MUSCAT, Sultanate of OMAN Phone: 00968-24449193 Fax: 00968 - 24449196
4.	BIT Off Campus, Kolkata Southend Conclave (4th Floor) 1582 Rajdanga Main Road (on Gariahat-EM bypass connector) Opp. Siemens Building Kolkata-700107 Phone: 033-24414542/24414456 Fax:24414299	9	BIT Off-Shore Campus, UAE C/o Royal College of Applied Science & Technology Knowledge Centre RAK Free Zone Ras Al Khaimah, U.A.E. Phone: +971504862900 (M) +97172272203
5	BIT Off Campus, Lalpur Lalpur Chowk Ranchi-834001 (Jharkhand) Phone: 065- 2531817/2531676 Fax: 2531658 /2531676		