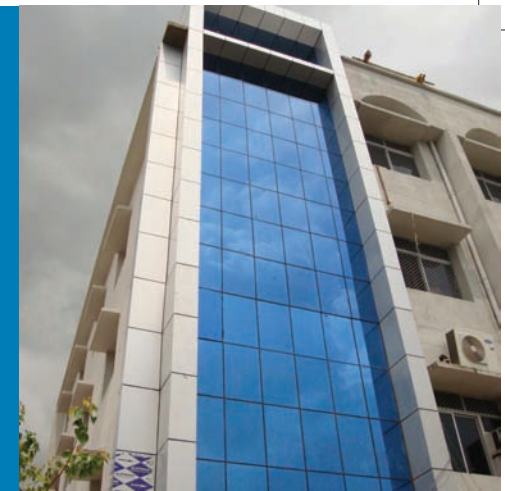
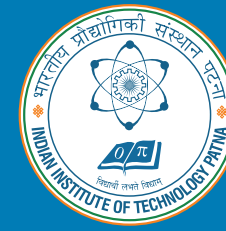


EVENT	DATE	DAY
Make-up-Examination for students having I and X grades and submission of letter grades to the Institute UG/PG Coordinators	May 06-May 10, 2013	Monday to Friday
Last date for Department UG & PG Program Committee meeting for considering results of all students. Last date for submitting grades (in hard copy) to the Institute UG/PG Coordinators	May 10, 2013	Friday
IAPC meeting	May 13, 2013	Monday
Declaration of Results	May 14, 2013	Tuesday
Registration for M.Tech (II year) Students	May 17, 2013	Friday
Submission of fee for next semester	Between May 15, 2013 and the day of registration for next Autumn Semester	
Last date for finalization of Branch Change	May 15, 2013	Wednesday
Summer Break begins (Only for UG students)	May 06, 2013	Monday
Summer Vacation (Only for Teachers)*	May 15 – July 14, 2013	Wednesday to Sunday
*Teachers can avail their vacation leave according to the Institute rules.		
Industrial/Summer Training for B.TECH students of all branches after sixth semester (8 weeks training during summer break)	Between May 06 2013 and July 06, 2013	
Registration of students for the Summer Quarter (SQ)	May 20, 2013	Monday
SQ classes begin on	May 21, 2013	Tuesday
Mid-Term Examination for SQ	June 10 – 12, 2013	Monday to Wednesday
Conduct of written Test/interview by Departments for M.Tech and PhD admissions	June 03 - 14, 2013	Monday to Friday
Last date for registration of students for supplementary courses	June 28, 2013	Friday
SQ classes end on	July 10, 2013	Wednesday
End-Term Examination for SQ & Exams for supplementary courses	July 11-13, 2013	Thursday to Saturday
Make-up-Examination for SQ	July 15-16, 2013	Monday and Tuesday
Last date for submission of grades for SQ and supplementary courses	July 17, 2013	Wednesday
IAPC meeting and declaration of Results of SQ and supplementary courses	July 18, 2013	Thursday



## Index

Director's Message	01
Editorial	02
Convocation 2012	03
Visits Abroad	05
MOU	05
Honour & Achievement	05
Lecture through National Knowledge Network	05
Visitors	05
Invited Lectures	07
Publications	08
Conference & Workshop	09
Short Term Course on Interpersonal Skills	12
Indo-Australian Workshop	13
Students' Workshops and Visits Abroad	13
Sponsored Projects	14
Training & Placement Cell	14
Students' Activities	15
Independence Day	15
IITP at PAN IIT 2012	15
Celebration of Foundation Day & Nebula-2012	16
Teachers' Day	17
Reverberance	17
Literary Corner	18
Editorial Board	18
Academic Calendar For Autumn Semester 2012-13	19



### From the Director's Desk



Dear Friends,  
With the new academic semester and New Year, I welcome you to this issue of Impulse. This semester has been one of progress and we have created history as the First Convocation of IIT Patna was held on 23rd December, 2012. We were honoured to have with us former President of India Dr. A.P.J. Abdul Kalam as the Chief Guest on this occasion. A recognised educationist with worldwide renown, Dr. Kalam, is an inspiration for students from all walks of life. With new faculty and staff, IIT Patna looks forward to climbing the steps of success and glory. Academic activities are in full swing in the Institute. Conferences and workshops have been organised at the Institute and the faculty are engaged in research. With small and firm steps IIT Patna is moving ahead.

Various distinguished visitors from the academia as well as the industry have added to our learning environment and the success of the students adds to our glory. This issue of the newsletter gives you a glimpse of the achievements and abilities of our students and faculty.  
Wishing you a happy reading!

Anil K. Bhowmick

### Editorial

We begin by welcoming all to this New Year 2013. Change is the only constant thing in this world. Many changes have happened in the world around us and in our small world at IIT Patna. The faculty members and students have taken up small and big challenges to carve out a place for themselves and the Institute in society at large. This issue of Impulse takes you through a journey of the growth of the Institute in the last six months. This presents a range of academic and cultural activities at the institute. The last semester was full of events at the IIT Patna. We have successfully organised our first convocation in December 2012 and look forward to sending out the next batch of students.

Warm wishes for the year ahead!  
Smriti Singh  
Nalin Bharti



### Convocation 2012

Indian Institute of Technology Patna held its first convocation on 23rd December, 2012 at the Rabindra Bhawan. The Chief Guest for the grand occasion was the former President of India, Dr. A.P.J. Abdul Kalam. The students of the first batch were enthusiastic enough to brave the cold and come to receive their degree. Dr. Kalam in his address exhorted the students to be 'job creators' rather than 'job seekers'. The President of India Gold medal was given to Gagandeep Singh from the Department of Computer Science and Technology while the Director's Gold medal went to Anushmita Kaushik from the Department of Electrical Engineering. Gagandeep Singh of Computer Science and Engineering Department, Ankit Lat of Electrical Engineering Department and Ankit Bhardwaj of Mechanical Engineering Department are the class toppers and received the Institute Silver Medal. Mohit Ahuja of Computer Science and Engineering Department, Shaik Abdul Rawoof of Electrical Engineering Department, Ankit Bhardwaj and Surabathuni Pallav of Mechanical Engineering Department are the winners of B.Tech Project Proficiency prizes.

The distinguished academician award was given to two great personalities Prof. K.L. Chopra and Dr. Anil Kakodkar. Recognised as one of the seven "most highly cited" scientists of India, the Institute of Scientific Information (ISI), USA has conferred "Citation Laureate" award on Prof. K.L. Chopra. UP Technical University and IIT Kharagpur have conferred an Honorary Dsc and the Government of India has conferred Padma Shri on Prof. Chopra for his distinguished contributions to science and engineering.

Dr. Anil Kakodkar became the Director of BARC in the year 1996 and was the Chairman, AEC, during the years 2000-2009. Currently he holds DAE Homi Bhabha Chair at BARC. Kakodkar played a key role in nuclear tests in 1974 & 1998 at Pokhran. India also demonstrated nuclear submarine powerpack technology under Kakodkar's leadership. Kakodkar's sterling leadership led to a significant boost to India's nuclear power programme notwithstanding the uranium supply constraints. As a result India's nuclear generation capacity is set to reach 10,000 MWe with the completion of projects already underway. India under Kakodkar's leadership has earned a distinctive status as a country with advanced nuclear technology.

On the whole it was a momentous occasion for Indian Institute of Technology Patna to see its first batch of students walking into the big world with confidence and high spirit.



The Chief Guest, Dr. Kalam



The Academic Procession



The Director, Dr. Kalam and the Chairman of BoG



A student receiving degree



Anushmita Kaushik receiving the award from Dr. Kalam



A student receiving the award from Dr. Kalam



Prof. K.L. Chopra receiving the distinguished Academician award



Dr. Kakodkar receiving the Distinguished Academician Award



Young graduates taking the oath

## Visits Abroad

Prof. Anil K. Bhowmick, Director, IIT Patna visited USA during 5-15th October, 2012. He visited University of Hartford, USA and Massachusetts Institute of Technology Cambridge, USA. He then participated in the International Rubber Conference as a Speaker. Concurrently, he visited Goodyear Tire & Rubber Company, USA on an invitation and delivered a talk attended by R&D personnel of the company all over the world. He had a meeting with IIT Patna Alumni Foundation in USA and subsequently visited Google & Yahoo.

Neeladri Das visited the University of Santiago de Compostela (USC), Spain in order to participate in the Programme for Excellence in Research from 27-11-2012 till 26-12-2012.

## MOU

Memorandum of Understanding (MoU) with the University of Hartford, USA on 5th October, 2012.

## Project

National Mission for Power Electronics Technology (NaMPET) Project by Ministry of Communications and Information Technology, Govt. of India is established at Advanced Electrical Engineering Laboratory, IIT Patna. Under this project IIT Patna will Design an Induction Motor for Propulsion in electric hybrid vehicle Applications.

## Honors and Achievements

Maheshkumar H. Kolekar, Tutorial Chair, International Conference on Intelligent Human Computer Interaction, at IIT Kharagpur, Dec 27-29, 2012.

Maheshkumar H. Kolekar, Guest Editor, Journal of Medical Imaging and Health Informatics, Special issue on Biomedical Signal and Image Processing, June 2012.

Maheshkumar H. Kolekar, Programme Committee Member for International Conference on Virtual Reality, Sept, 27, 2013, Düsseldorf, Germany.

## Lecture Through NKN

Title: IEEE workshop on "Medical Imaging and Image Processing" Date: 04-07-2012 to 07-07-2012

Indian National Science Academy (INSA) organised a public lecture on 'Science for Sustainable Development – Industrial & Rural', by Dr R. Chidambaram, Principal Scientific Adviser to the Govt. of India on September 19, 2012

Nalin Bharti's paper at the International Conference on Offshore Services in Global Value Chain organized by United Nation Economic Commission for Latin America and the Caribbean (ECLAC), Santiago, Chile, was delivered through NKN on 18th Oct, 2012.

The IISER Mohali foundation day lecture on "Expanding Excellence in Science Education in Research" by Dr. T. Ramasamy on 27.09.2012.

## Visitors

Title: Linear and Nonlinear Filtering in Finance

Speaker: Dr. Paresh Date, Brunel University, UK

Date: 25.07.2012

Foundation Day Lecture: Is Climate Changing?  
Distinguished Speaker: Prof. S. K. Dube, Center for Atmospheric Sciences,  
IIT Delhi (Former Director, IIT Kharagpur)  
Date: 06.08.2012

Title : Vibration of a Bladed Rotor with Geometric Mistuning  
Speaker : Dr. Alok Sinha, Professor of Mechanical Engineering, The Pennsylvania State  
University, USA  
Date: 08.08.2012

Title: "Metaphysical Realities in Psychology and Management"  
Speaker: M.B. Sharan, Ph.D., Senior Professor of Psychology, School of Humanities &  
Social Sciences, IIT Patna  
Date: 09.08.2012

Title: "Logarithmic Corrections to Extremal Kerr-Newmann Blackhole Entropy"  
Speaker: Dr. Mrs. Binita Panda, Postdoctoral Researcher, Harish Chandra Research Institute,  
Allahabad, India  
Date: 13.08.2012

Title: An Approach towards Artificial Photosynthesis by Ru(II)  
Complexes having (NAD<sup>+</sup>/NADH) Model Ligands  
Speaker: Dr. Sumanta Kumar Padhi, Postdoctoral Fellow, Center for Biomimetic Systems  
(Ewha Womans University, Seoul)  
Date: 13.08.2012

Title of the Talk: Nanoscale structure-specific plasmonics  
Speaker: Dr. Manabendra Chandra, Postdoctoral Fellow, Florida State University, and  
National High Magnetic Field Laboratory, Tallahassee, Florida, USA  
Date: 16.08.2012

Title: "Possible Research Collaboration and Student Exchange Program  
between IIT Patna and Virginia Tech"  
Speaker: Dr. Sunil K. Sinha, Associate Professor, Virginia Tech  
Date: 21.08.2012

Title: "Job Opportunities through Indigeneous technology in globalised world"  
Speaker: Prof. Deshdeep Sahdev, Professor, IIT Kanpur  
Date: 24.08.2012

Title: "Multiscale Transport Phenomena for Space and Energy Applications"  
Speaker: Dr. Rishi Raj, Postdoctoral Research Associate, Device Research  
Laboratory, Massachusetts Institute of Technology, USA  
Date: 13.09.2012

Title : An overview on research at School of Computing, National  
University of Singapore  
Speaker: Dr. Kaushik Dutta, Department of Information Systems, School of Computing, National University of  
Singapore  
Date: 27.09.2012

Title: Learning to Control the Robotics System  
Speaker: Dr.L.Behera, Department of Electrical Engineering IIT Kanpur  
Date: 13.10.2012

Title: Uncertainties in Computational Nano-Engineering  
Speaker: Dr. S. Raha of Supercomputer Center, IISc Bangalore  
Date: 16.10.2012

Title: How to Unleash Massive Parallelism of your Laptop? - A Massively Parallel Priority Queue Data Structure on  
GPUs  
Speaker: Prof. Sushil K. Prasad, Department of Computer Science, Georgia State University  
Date: 14.12.12

## Invited Lectures

**N. K. Nishchal**, "Digital holography," One Day Seminar on Development of Nano-Technology Sensors for Defence Applications: Nano-Scale Innovation, Vidyadaan Institute of Technology and Management, Dumraon, Buxar, Sept. 16, 2012.

**N. K. Nishchal**, "Optical microscopes," INSPIRE (Innovation in Science Pursuit for Inspired Research) Internship Science Camp, Pre-Examination Training Centre, Patna University, Aug. 30, 2012.

N. K. Nishchal, "Photonic correlator," Bihar INSPIRE Internship Science Camp, Jagdam College, Chapra, July 18, 2012

**Nalin Bharti** participated as a key Speaker in an international Conference on South Asian Economy at CIMP, Patna on 24th July, 2012.

**Nalin Bharti** invited as a panelist for SEWA's Round Table Conference on Solid Waste Management Katihar, 31st Oct, 2012.

**Nalin Bharti** invited for a talk on "Impact of FDI on Indian Economy with special reference to retail trade and insurance sector" by the Department of Commerce, Patna Women's College, 21st November, 2012.

**Makeshkumar H. KOLEKAR**, Keynote address on “Image Processing Techniques for Cardiovascular Diseases” in “International Conference on Biomedical Systems, Signal and Images at IIT Madras, Chennai, Nov 30, 2012.

**Makeshkumar H. Kolekar**, Delivered invited talk on, “Real-time Abnormal Human Activity Recognition” at Bhabha Atomic Research Center, Mumbai on Sept 14, 2012.

S.K. Parida, National Workshop on Small Hybrid Power Generation System, PET.  
Engineering College, Tirunelveli District, Tamil Nadu, India 19th to 20th October, 2012.

**S.K. Parida**, Short term course on Power Markets: Economics and Management, IIT Kanpur, India, October 29-November 2, 2012.



Dr. Tania Douglas, Director, MRC Medical Imaging Research Unit, University of Cape Town facilitating Dr. Mahesh H Kolekar after delivering keynote address at IIT Madras

## Publications

Aninda Chatterjee, Banibrata Maity, **Debabrata Seth**, The photophysics of 7-(N,N'-diethylamino)coumarin-3-carboxylic acid in water/AOT/isooctane reverse micelle: An excitation wavelength dependent study, *Physical Chemistry Chemical Physics*, 2012, DOI: 10.1039/C2CP43483K.

Aninda Chatterjee, **Debabrata Seth**, Effect of nanocavities on the torsional dynamics of thioflavin T in various non-aqueous reverse micelles, *Photochemical & Photobiological Sciences*, 2012, DOI: 10.1039/C2PP25297J.

Aninda Chatterjee, **Debabrata Seth**, Photophysical properties of 7-(diethylamino)coumarin-3-carboxylic acid in the nanocage of cyclodextrins and in different solvents and solvent mixtures, *Photochemistry and Photobiology*, 2012, DOI: 10.1111/php.12000.

A. K. Singh, and **S. K. Parida**, “Impact analysis of RESs based DGs with Economical Consideration in Restructured Electricity Market” *Energy Sources, Part B: Economics, Planning, and Policy*, Taylor & Francis, doi.10.1080/15567249.2011.649824.

A. K. Singh, and **S. K. Parida**, “Evaluation of current status and future directions of wind energy in India” *Clean Technologies and Environmental Policy*, Springer (10 December, 2012), pp. 1-13, doi.10.1007/s10098-012-0554-6.

Manoj Kumar Rastogi, **Yogesh Mani Tripathi**, Shuo-Jye Wu, Estimating the parameters of a bathtub-shaped distribution under progressive type II censoring. *Journal of Applied Statistics*, 39(2012), 2389-2411.

**Probir Saha**, Tarafdar, D., Pal, S.K., Saha, P., Srivastava, A.K. and Das, K., “Multi-objective optimization in wire electro-discharge machining of TiC reinforced composite through neuro-Genetic technique”, *Applied Soft computing*. DOI: 10.1016/j.asoc.2012.11.008.

Nirala, C.K., Reddy, B., and **Probir Saha**, 2013 “Optimization of Process Parameters in Micro Electro-Discharge Drilling: A Taguchi Approach” *Advanced Materials Research*, Vol. 622-623, pp. 30-34.

S. K. Rajput and **N. K. Nishchal**, “Asymmetric color cryptosystem that uses polarization selective diffractive optical element and structured phase mask,” *Applied Optics* 51 (2012) 5377-5386.

Titash Mondal, **Anil K. Bhowmick**, and Ramanan Krishnamoorti, 'Chlorophenyl pendant decorated grapheme sheet as a potential antimicrobial agent : synthesis and characterization' *Journal of Materials Chemistry*, 22:22481. (2012).

Nabarun Roy and **Anil K. Bhowmick**, 'Dynamic Transitions and Creep in Carbon Nanofiber / Polydimethylsiloxane Nanocomposites with Meticulously Architected Polymer-Filler Interfaces' *Industrial Engineering & Chemistry Research* 51, 9571-9580 (2012).

Nabarun Roy and **Anil K. Bhowmick**, 'Tailore-Made Fibrous Hydroxyapatite / Polydimethylsiloxane Composites : Insight into the Kinetics of Polymerization in the Presence of Filler and Structure-Property Relationship' *Journal of Physical Chemistry C*, 116, 26551 (2012).

Bandana Talukdar and **Anil K. Bhowmick**, 'An imidazolium-functionalized isobutylene polymer having improved mechanical and barrier properties: Synthesis and characterization' DOI: 10.1002/app.38458.

**Aditya Raj**, Perspectives on Health- Elbe's Security and Global Health” *International Sociology (Journal of the International Sociological Association)* Vol. 27. No. 5, 2012.

**Aditya Raj** and Pooja, Women in Dalit Literature: Voice, Agency and Subjectivity, *Journal of Exclusion Studies* Vol. 2. No. 1, 2012.

## Conferences & Workshops

A.K. Singh, and **S. K. Parida**, “Need of Distributed Generation for Sustainable Development in Coming Future,” *Proceedings of the IEEE International Conference on Power Electronics, Drives and Energy Systems 2012 (PEDES 2012)*, Bengaluru, India, 16-19 December , 2012.

A.K. Singh, and **S. K. Parida**, “A Strategic Framework for Allocation of Distributed Generation Under Severity Conditions” *Proceedings of the IEEE Fifth Power India Conference 2012 (PICON 2012)*, Murthal, Haryana, India, 19-22 December , 2012.

Atif Iqbal, Saifullah Payami, Mohammad Saleh, Ahmed Anad, and **R.K. Behera**, “Analysis and control of five phase AC/DC/AC converter with active rectifier” *Universities Power Engineering Conference (AUPEC), 22nd Australasian (IEEE), Bali Indonesia*, 2012.

Atif Iqbal, Saifullah Payami, **R.K. Behera**, Ahmad Anad Abdallah and Haitham Abu-Rub, “Analysis of a field oriented controlled five-phase motor drive with active front end converter”, *Power and Energy (PECon), 2012 IEEE International Conference 2012, Malaysia*.

Manoj Kumar Rastogi, **Yogesh Mani Tripathi**, “Hybrid Censored Inverted Exponentiated Rayleigh Distribution”, *System Modeling & Advancement in Research Trends, TMU, Moradabad*, 20-21 December, 2012.

Manoj Kumar Rastogi, **Yogesh Mani Tripathi**, "Estimation for an Inverted Exponentiated Rayleigh Distribution under Progressive Type II Censoring", Twenty First International Conference on Interdisciplinary Mathematical and Statistical Techniques, Panjab, 15-17 December, 2012.

Manoj Kumar Rastogi, **Yogesh Mani Tripathi**, "Bayesian Estimation for the Bathtub Distribution under Hybrid Censoring", VII International Symposium on optimization and Statistics, AMU, 21-23 December, 2012.

Nirala, C.K., Reddy, B., and **Probir Saha**, "Optimization of Process Parameters in Micro Electro-Discharge Drilling: A Taguchi Approach" 3rd International Conference on Manufacturing Science and Technology, New Delhi, 2012.

**Ranjan K. Behara**, Wireless Power Transfer: The Next Generation Power Transmission System, National Conference on "Advanced Computing Techniques and Applications(NCACTA-2012)" Roland Institute of Technology, Berhampur, Orissa, India, 01 December, 2012

**Samrat Mondal**, "Password Based Authentication Schemes: Safety and Usability Analysis", 8th International Conference on Information and Systems Security 2012, Indian Institute of Technology Guwahati, 16th December, 2012

Madhu Sankeerth Dammati and **Samrat Mondal**, "Detecting Policy Misconfigurations in Temporal Domain Using Object Priority", IEEE International Conference on Communications, Network and Satellite (COMNETSAT 2012), Bali, Indonesia, July 2012

Mehra, S. K. Rajput, and **N. K. Nishchal**, "Collision in phase truncation based asymmetric cryptosystem in Fresnel domain," Eleventh International Conference on Fiber Optics and Photonics (PHOTONICS'12), IIT Madras, Dec. 09-12, 2012.

S. K. Rajput, Himanshu, and **N. K. Nishchal**, "Color image encryption using polarized light," Eleventh International Conference on Fiber Optics and Photonics (PHOTONICS'12), IIT Madras, Dec. 09-12, 2012.

**N. K. Nishchal**, T. Pitkaaho, S. Krishnan, and A. Maninnen, "Real-time three-dimensional visualization of Escherichia coli using digital holographic microscope," Eleventh International Conference on Fiber Optics and Photonics (PHOTONICS'12), IIT Madras, Dec. 09-12, 2012.

**N. K. Nishchal**, "Optoelectronic techniques of watermarking," National Conference on Advances in Lasers and Spectroscopy (ALS-2012), ISM Dhanbad, Nov. 01-03, 2012.

S. K. Rajput and **N. K. Nishchal**, "Optical image encryption based on phase truncation and polarized light," National Conference on Advances in Lasers and Spectroscopy (ALS-2012), ISM Dhanbad, Nov. 01-03, 2012.

Mehra and **N. K. Nishchal**, "Zero order and twin image removal using chirp encoding in digital holography," National Conference on Advances in Lasers and Spectroscopy (ALS-2012), ISM Dhanbad, Nov. 01-03, 2012.

D. Kumar and **N. K. Nishchal**, "Characterization of Holoeye LC2002 spatial light modulator using He-Ne laser," National Conference on Advances in Lasers and Spectroscopy (ALS-2012), ISM Dhanbad, Nov. 01-03, 2012.

Lloyds Raja, **Maheshkumar H Kolekar**, "Illumination Normalization for Image Restoration Using Modified Retinex Algorithm", IEEE INDICON conference, Cochin, India, Dec 7-9, 2012.

Alok Kumar Singh, **Maheshkumar H Kolekar**, "Vision based Multiple Human Activity Recognition for Video Surveillance System: A Systematic Approach", International IT Conference CUBE, Pune India, Sept 2012.

Lloyds Raja, **Maheshkumar H Kolekar**, "Wavelet Transform Based Fluctuating Density Gaussian Sampling Algorithm for

Efficient Image Reconstruction", Sensor Signal Processing for Defence, London, UK, Sept 25-27, 2012.

**Maheshkumar H. Kolekar**, Lloyds Raja, Himanshu Rai, Anamika Prasad, "Image based Arterial Wall Thickness Estimation for Abdominal Aortic Aneurysm Rupture Risk Analysis", 4th International Congress on Computational Mechanics and Simulation, IIT Hyderabad, Dec 9-12, 2012.

**Nalin Bharti**, 'ITES Offshore: Why India is a Brand?' International conference on Offshore Services in Global Value Chain organized by United Nation Economic Commission for Latin America and the Caribbean (ECLAC), 18th Oct, 2012, Santiago, Chile.

**Nalin Bharti**, Priyanka Sinha 'Has Trade and Telecom Policy Reforms helped India in getting Jobs: Some evidence from ITES Growth', 95th Indian Economic Association Conference held at GITAM University, Vishakhapatnam during 27-29 Dec, 2012.

**Nalin Bharti's** occasional paper 'Privatization in Bangladesh: Lessons for South Asia' released on 22 Dec by Former Foreign Secretary (IFS) Mr. Shyam Sharan, Govt of India during the inauguration of Centre for South Asian Studies at Chandragupta Institute of Management, Patna.

**Smriti Singh**, Materials for Teaching English at the Secondary Level, UGC sponsored National Seminar on "State Quality Mission in Bihar: Challenges and Implications for ELT in the context of RTE", R. N. College, Hajipur (Bihar), 22 & 23 September, 2012.

**Smriti Singh**, Identity and Ethnicity in Kiran Desai's 'The Inheritance of Loss', International Seminar on ethnicity, Identity and Literature, Sibsagar College, Joysagar, Assam, 11-14 October, 2012.

**Aditya Raj** and Ramjit Kumar "Bihar: Looking Back, Looking Ahead" Transforming Bihar: Challenges and Innovations (organized by Indian Institute of Advanced Study, Shimla) Department of Sociology, Patna University, 6-7 November, 2012.

Kumar, Manish and **Aditya Raj**, "Understanding the Health Experiences of Unskilled Migrant workers from Bihar" 38th All India Sociological Conference, Department of Sociology, Mohanlal Sukhadia University, Udaipur (Rajasthan, India) 27-29 December, 2012.

Pooja and **Aditya Raj** "Representation of Indian Women in Select Indian Diasporic Narratives" 38th All India Sociological Conference, Department of Sociology, Mohanlal Sukhadia University, Udaipur (Rajasthan, India) 27-29 December, 2012.

**Aditya Raj**, "Diaspora Capital" 38th All India Sociological Conference, Department of Sociology, Mohanlal Sukhadia University, Udaipur (Rajasthan, India) 27-29 December, 2012.

Aditya Raj, (panel presentation) "Research Committee Report- Migration and Diaspora Studies", 38th All India Sociological Conference, Department of Sociology, Mohanlal Sukhadia University, Udaipur (Rajasthan, India) 27-29 December, 2012

Rakesh Matam, **Somanath Tripathy**, "Defence against Wormhole Attacks in Wireless Mesh Networks", 8th International Conference of Information Systems and Security (ICISS-2012, Springer LNCS, December-2012.

**Somanath Tripathy**, Debasish Sahoo, "WAKE: Authentication and Key Establishment for Wireless Mesh Network", in Proc. of International Conference on Security in Computer Networks and Distributed Systems, Springer CCIS, Volume 335, pp 64-74, October-2012.

Viswanath Pratap Singh, Arka Prokash Mazumdar and **Ashok Singh Sairam**, On Energy Consumption Analysis for Adhoc Routing Protocols, International Conference on Advances in Computing, Communication and Informatics (ICACCI 2012), August 2012, Chennai, India.

## Short Term Course on Interpersonal Skills

The School of Humanities and Social Sciences organised a short term course on Interpersonal Skills from September 28-30, 2012 at Indian Institute of Technology Patna. The workshop was inaugurated by Prof. Janak Pandey, Vice-Chancellor, Central University of Bihar.



Co-ordinator of HSS



The Chief Guest, Prof. Janak Pandey with the Director and co-ordinator of HSS



Participants and Guests



Participants with the resource persons and the Director and faculty of HSS

The Department of Humanities and Social Sciences organized a lecture on "What ails healthcare in developing countries?" by Manish Bhardwaj (PhD, MIT) on 20th December, 2012

## Indo-Australian Workshop

"Indo-Australia Workshop on Optimization Techniques for Human Language Technology" was held at IIT Patna on December 16, 2012. It was supported by Australia-India Strategic Research Fund, Round Six 2011/2012. The aim of the workshop was to bring together the communities who are working in the areas of: Evolutionary Computation, Optimization Techniques, Machine Learning, Language Technology/Natural Language Processing, Information Retrieval, Text Mining etc. The workshop was a starting platform to explore the possibilities of interdisciplinary research works that would focus on developing optimization based methods on the above fields within the context of human language technology. Honourable Director of IIT Patna, Prof. Anil Kumar Bhowmick; Dr. Arabinda Mitra, Adviser & Head, International Cooperation (Bilateral), Department of Science and Technology; India, Dr. Naveen Vasishta, Principal Scientific officer, DST; Dr. Diego Molla Aliod, Senior Lecturer in the Department of Computing, Macquarie University, Australia; Dr. Mark Dras, Associate Professor at Macquarie University in Sydney, Australia graced the inauguration. This workshop was attended by around 120 participants, most of them are professors of different institutes, Ph.D. scholars, and Masters students making it a grand success.



The Director, faculty and guests



Inaugural Session



Interaction with the faculty members



Sharing a light moment

## Students' Workshops and Visits Abroad

**Manoj Kumar Rastogi** attended the Workshop on 'Reliability Theory & Survival Analysis', IIT KANPUR, 3-5 December, 2012.

**Sudheesh Kumar Rajput** visited Oulu Southern Institute, University of Oulu, Finland during Nov.-Dec. 2012. He carried out some experiments on Digital Holographic Microscope.

**Himanshu Pathak**, Akhilendra Singh and Indra Vir Singh, Numerical Simulation of Fatigue Crack Grow Problem under Thermo-Mechanical Loading using EFGM and XFEM" ICCMS 2012, IIT Hyderabad, 9 December- 12 December, 2012.

**Mr. Bishanka Brata Bhowmick** is in Italy at present for his Doctoral Research in a Joint Ph.D. programme. He is working at the Institute of Communication, Information and Perception Technologies, Scuola Superiore Sant'Anna, Pisa, Italy.

## Sponsored Projects

Project Title: Ferrimagnetic Nanocrystalline Arrays in Ferroelectric or Conducting Polymer for soft magnetic applications  
PI: Dr. Manoranjan Kar, Department of Physics  
Sponsoring Agency: CSIR

Project Title: Robust monitoring strategies in a Controlled Drilling Operation of Human Bone  
PI: Dr. Sudhansu Sekhar Panda, Department of ME  
Sponsoring Agency: SERB

Project Title: International Conference on Optimization Techniques for Human Language Technology  
PI: Dr. Asif Ekbal & Dr. Sriparna Saha, Department of CSE  
Sponsoring Agency: DST

Project Title: Short Term Course on Interpersonal Skills  
PI: Prof. M.B Sharan & Dr. Smriti Singh, Department of HSS

Project Title: DNA Supramolecular Self Assembly for construction of Functional Nanostructures.  
PI: Dr. Prolay Das & Dr. Neeladri Das (Co-P.I), Department of Chemistry  
Sponsoring Agency: DBT

Project Title: Multi-sensor based intelligent tool condition monitoring in mechanical micro-machining  
PI: Dr. Karali Patra, Department of ME  
Sponsoring Agency: DST

Project Title: Modeling Design and Fabrication of Induction Motor for Propulsion Applications  
PI: Dr. Ranjan Kumar Behera & Dr. S.K. Parida, Department of EE  
Sponsoring Agency: CDAC

Project Title: Development of Lithium Batteries  
PI: Dr. A. K. Thakur, Department of Physics  
Sponsoring Agency: FHBL

Project Title: High Power AC Drives for Electric Locomotive and General Purpose off Highway Applications  
PI: Dr. Ranjan Kumar Behera, Department of EE  
Sponsoring Agency: HPD

## Training and Placement Cell

Training and Placement Cell (TPC) is actively involved in organizing summer internships for the pre-final year and the placement activities of the final year B.Tech students who would be graduating in May, 2013. The TPC has published a new Training and Placement Brochure for circulation to the prospective employers including several private companies, public sector undertakings and government agencies. The cell arranged the summer internship for pre-final year students in various private companies, public sector undertakings, Universities and R & D organizations. They include Microsoft-IDC, Mentor Graphics, TCS, Wipro, EdGate, Dassault Systems India Pvt. Ltd, Altair India, LG, GE, Tata Projects, Belzabar Software Design, Sicon Tech, Sonus Networks, L&T, Hero Moto Corp, Bangalore Metro, Tata Motors, Bajaj Auto, DRDO, TIFR, CMERI, and NPCIL. During summer 2012, a total of 33 companies and organizations offered summer training to our students and 27 of them provided financial assistance. About 20% students have been offered paid summer research internship abroad in USA (University of Houston, Texas A and M University, Georgia State University, Washington State University), Canada (University of Saskatchewan), Australia (University of New South Wales), New Zealand (University of Auckland), Malasiya

(Finisar Malaysia Sdn. Bhd), Singapore (Chloride Batteries S.E. Asia Pvt. Ltd).

The placement session started in September 2012 with the reputed companies like Adobe, Google, Hero Motocorp Ltd, Microsoft IDC, Cisco Systems and Belzabar Software and they made 19 offers to our final year students. Intensive placement session started from December 2012 and 12 companies visited the Institute for campus recruitment. In all 18 companies visited the campus for placement of our graduating students. Out of the 89 students eligible for placement, 51 have got offers in the first phase of the placement process making 57 % of the students placed with the average package of 8.13 LPA. The highest package was offered of 16.03 LPA by Microsoft IDC. The second phase of placement process starts from January 2013 and 10 companies and organizations have registered for recruitment of the final year B.TECH students and many more are in the process.

The Institute intends to achieve cent percent placement for graduating students and for that the TPC emphasizes on developing the soft skills of the students like verbal communications, personality development and general awareness for better performance in the interview boards. Some of these factors add to technical skills and performance during the final placements. The TPC organized several lectures, the workshop on Pre-Placement Training and Demonstration by the experts to the students for the development of these skills.

## Students' Activities

### Independence Day



Director hoisting the National Flag



Director delivering Republic Day Speech



Students Performing Programme



Guard of Honour

### IITP at PAN IIT 2012





## Celebration of Foundation Day & Nebula-2012



On August 6, 2012, IIT Patna completed four years since its inception and celebrated its 5th Foundation Day. The occasion was commemorated through a day long celebration with active participation from all the faculty members, staff members and the



students. It all started with a blood donation camp in the morning in association with the Red Cross Society Blood Bank (Bihar) and the Mahavir Vatsyalaya Aspatal.



It was inaugurated by Dr. K. Bhowmick, Medical Officer (IIT Patna) and was a grand success with about 60 Units of blood collected within three hours. This was followed by the tree plantation activity where the faculty members and administrators at IIT Patna planted saplings across the IIT Patna campus in Patliputra.

The Foundation Day Debate was organized in parallel by the students where the topic of Debate was "Influx of Foreign Universities versus Development of IITs". The judges for this event were Prof. Asok De. Director of NIT Patna and Prof. Sangeeta Lal from Magadh University. The debating skills of our students were applauded by both the external judges and it was indeed a big success giving the students an opportunity to have a transparent and balanced view of the topic of



debate. The sports event which followed post lunch, provided a good chance for students, staff and faculty members to come together and display sportsman spirit and sporting skills. The Foundation Day lecture was organized in the afternoon session. The guest speaker for the event was Prof. S. K. Dube from the Center for Atmospheric Sciences,



IIT Delhi (and ex-Director, IIT Kharagpur). He gave an outlook on Climate Change and the key issues involved and the talk was attended by faculty members and students alike. In the evening, a cultural event was organized by the students in the form of Nebula 2012. Shri. Navin Kumar, Chief Secretary, Government of Bihar graced the occasion as the Chief Guest. The Nebula program conducted by students was an attempt to display the co-curricular skills of the freshers. This was followed by a dinner.



Lecture on the foundation day

## Teachers' Day

The Cultural Club of IIT PATNA has organized a Teachers' Day Celebration on 5th of September, 2012(Wednesday). The venue for the program was Student Gymkhana. Various events were organized to make the day special for the teachers and it also included the release of a documentary on IIT Patna.



Director and Prof. A. Samanta, Dean, IIT KGP



Faculty Members



A student singing at Teachers' Day



Faculty Members

## Reverberance



Rangoli



Rock and DJ Nite



Wall Painting



Rock Song



Aura



Rock Nite

## Literary Corner

आता था सावन झूम – झूम  
संग लाता था सजन की यादें खूब.  
पहले सावन था तो भीत थे, झूले थे  
गाँव में एक नदिया थी और  
नदिया कनारे बगिया थी.  
पर अब तो गाँव हो गया वृद्ध  
जवानी तो शहरों में आ गयी.  
तो बेचारा सावन कहाँ जाये?  
पहले कड़कता है, फरि होता है.  
याद करता है प्रकृति को  
जसि बनाता था वो दुल्हन  
और प्रेम से करता था आँवल भरा – पूरा.  
अब बदल रही है प्रकृति की भी आकृति  
कहाँ है वो झरना जो बहता था कल – कल  
अब तो है छत का नाला  
जसिसे गरिता है सावन छटपट.  
अब अवाध बहाव कहाँ?  
रेंगने की कोशिश कर  
ठहर जाता है वह संकरी गलशियों में  
लुट गयी नद्री सावन सरकार की  
अब तो सावन हुआ ज्यादा  
और सरकार हुई सावन.

आता था सावन झूम – झूम  
संग लाता था सजन की यादें खूब .

LataLata Atreya,  
Ph.D. Scholar,  
Dept. of HSS

## Editorial Board

Smriti Singh, Department of Humanities and Social Sciences  
Nalin Bharti, Department of Humanities and Social Sciences  
Aditya Raj, Department of Humanities and Social Sciences  
M. B. Sharan, Department of Humanities and Social Sciences  
Motiur Rahman, Junior Assistant, Basic Sciences and HSS

### CHANGE IS PAIN. NOTHING CAN BE ACHIEVED WITHOUT PAIN.

You always have the ability to change the way you want..  
The only thing is.. you have to be ready to leave all that is yours  
if required,  
Your possessions..  
Your image, position and status in society..  
First should be ready to kill your ego, identification..  
Should forget what the society would think of you..  
REMEMBER, SOCIETY WON'T ENCOURAGE POSITIVE  
CHANGE. IT'S ITS NATURE.  
NEVER EXPECT COMPLIMENTS FOR YOUR CHANGE.  
NONE WILL EVEN RECOGNISE YOUR CHANGE, UNLESS  
YOU ARE SUCCESSFUL COZ OF YOUR CHANGE.  
BUT REMEMBER,  
Now when it's time to change,  
If you stepback, the same society who you were so sure wont  
support you change,  
Will be the very one who will abscond and talk behind your  
back, you have wasted yourself.  
If you change,  
May be people say you are going to lose..  
But walking in the path you decided to, knowing from depths  
that success is gonna be yours.  
Never listen, never lookback at what you are losing.  
Change can't happen, until you are attached to the previous  
old world of yours.  
There has to be a dawn for a sunrise.  
EVERYDAY, ONE COMES TO KNOW THEIR MISTAKES IN  
THE WAY THEY ARE..  
MANY EVEN REALISE AND KNOW HOW TO CORRECT  
THEMSELVES..  
BUT ARE AFRAID OF CHANGE..  
BE DARE ENOUGH..  
IN LIFE NOTHING IS PERMANENT, EVERYTHING IS  
BOUND TO CHANGE,  
YOU TOO..  
EVEN IF YOU WONT CIRCUMSTANCES BEND YOU TO  
CHANGE,  
BUT THAT WONT BE A HAPPY AND WILLING ONE.  
SO, ONCE YOU ARE REALLY WILLING TO CHANGE,  
GO AHEAD..  
NONE HAS THE POWER TO STOP YOUR WILL.

S. Ganesh Deekshith  
1001EE29  
Dept. of Electrical Engineering

## ACADEMIC CALENDAR FOR AUTUMN SEMESTER 2012-13

EVENT	DATE	DAY
Registration for all existing UG & PG students and Registration for all new PG entrants	Dec 31, 2012	Monday
First day of Instruction for B.Tech and M.Tech Classes	Jan 01, 2013	Tuesday
First day of Instruction for Ph.D Classes	Jan 07, 2013	Monday
Last date for late registration with fine	Jan 07, 2013	Monday
Last date for course adjustment for B.Tech and M.Tech students	Jan 08, 2013	Tuesday
Communicating the list of short attendance cases to respective Faculty Advisors/Supervisors	Feb 13-15, 2013	Wednesday to Friday
Mid Semester Examination (MSE)	Feb 18 – 23, 2013	Monday to Saturday
Last date for showing mid-semester answer copies to Students	March 01, 2013	Friday
Mid Semester Review of UG projects (without affecting the regular classes)	Between March 02, 2013 and March 08, 2013	
Last date for Review of Mid semester performance of all students by Department UG & PG Program Committee and report of academically weak students to their Faculty Advisors/Supervisors	March 08, 2013	Friday
Last date for assigning final-year-project to pre-final year B.Tech and M.Tech students. Last date for sending list of courses to be offered in next semester to the Institute UG/PG coordinators by the departments	March 15, 2013	Friday
Course Evaluation Week	April 15 – 18, 2013	Monday to Thursday
Course pre-registration	April 15 – 18, 2013	Monday to Thursday
Last date for General Time Table slot allocation for next semester	April 23, 2013	Tuesday
Submission of the applications for changing the Branch for B.Tech II-semester students	Apr 22 – 26, 2013	Monday to Friday
Communicating the final list of short attendance cases to the academic section through their Faculty Advisors/Supervisors	Apr 22 – 25, 2013	Monday to Thursday
Display of list of detained students in End Semester Examination due to short attendance by the academic Section	April 26, 2013	Friday
Last day of Instructions	April 26, 2013	Friday
End Semester Examination (ESE)	April 29 - May 04, 2013	Monday to Saturday
Last date for submission of Grades	May 09, 2013	Thursday