

Newsletter from IIT Patna

# Impulse

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## FROM THE DIRECTOR'S DESK



Dear Friends,

First of all, I would like to wish you a very happy and prosperous New Year 2012. We are happy to present to you a new volume of our bi-annual newsletter Impulse. It presents an overview of how we have done in the last six months. We had a busy semester full of

activities.

On the outset of a new year, I am happy to report that our faculty strength has gone up. Many new members have joined different departments of this new institute from this country and abroad. I am sure that their entry will help the departments grow exponentially in terms of visibility and make the teaching and research programs more vibrant and sound. Our visibility in different academic forums is indicated by the impressive presentation and publication list of our faculty members. We have also received good number of grants from various funding agencies. Many distinguished professors have visited our campus.

Our students have done well on and off campus. They have spent time at various places for their summer internships. We hear good things about them from our friends and colleagues. Once again they have proved themselves during campus placements. They have been hired by many outstanding enterprises. I am happy to inform that around seventy percent of the outgoing students have already been hired. Many companies and organizations are still visiting our institute.

We have been working on moving to a new campus. Last year the foundation stone for a new campus was laid down in the sprawling landscape of Bihta, Patna. Concept design, plan, elevation, cross-section of all buildings, structural drawings etc. have all been prepared. Boundary wall has been constructed. We are going to begin building construction work pretty soon.

We are also opening new academic departments. These departments will initially run post-graduate programs in various fields. Many of our master's programs will be interdisciplinary in nature. With these few words, I am inviting you to take a look at this new volume and our website. We are open to suggestions and we invite your suggestions to help us improve our efforts.

**Anil K. Bhowmick**



## EDITORIAL

We begin by wishing you the very best in the New Year 2012. It's a pleasure to bring you another issue of the Impulse - bi-annual newsletter of IIT Patna. It takes you through the summary of the range of academic, cultural and, fun activities at the institute. The last semester was full of events at the IIT Patna. We started with Nebula 2011 to welcome the first semester students, and then we had our third Foundation Day, Teachers Day, and Hindi Diwas. Some new faculty and staff have joined the IIT Patna family. The institute has grown in its visibility in the last six months as it has stronger relationship of academic partnership at global level. At the local level, we have been committed for social outreach through engaged participation in various activities. The research scholars are busy in the thriving laboratories of our Institute and we hope that soon we will have path breaking news to share. This newsletter presents to you the commitment to the sustainable academic growth of the students and faculty during the past semester. We sincerely acknowledge the cooperation of all the members of IIT Patna for sending relevant information.

*Wishing you a grand year ahead!*

**Rajesh Kumar, Nalin Bharti, Aditya Raj**

## BOARD MEETING

5<sup>th</sup> & 6<sup>th</sup> meetings of the Board of Governors of IIT Patna were held on July 5, 2011 and October 28, 2011, respectively. Dr. G. Madhavan Nair, Chairman, Board of Governors of IIT Patna chaired the meetings along with the other members.

## 3<sup>rd</sup> FOUNDATION DAY



IIT Patna celebrated its third foundation day on 6th August, 2011. The day long celebration began with a debate competition followed by a blood donation camp. The Chief Guest and Guest of Honour on this occasion were Prof. Amitabha Ghosh, former Professor, IIT Kanpur and former Director, IIT Kharagpur, and Mr. Chanchal Kumar, IAS, Secretary

to Chief Minister, Government of Bihar, respectively.



## NEW APPOINTMENTS

### New Faculty



**Om Prakash**  
PhD, Banasthali  
University (Rajasthan)  
Assistant Professor,  
Mathematics



**Prashant Kumar  
Srivastava**  
PhD, IIT Kanpur  
Assistant Professor,  
Mathematics



**Ajay Thakur**  
PhD, Tata Institute of  
Fundamental Research  
Assistant Professor,  
Physics



**M B Sharan**  
PhD, Patna  
University  
Sr. Professor, HSS



**Birendra Sahay**  
Visiting Professor  
Mechanical

### Medical Officer



**Dr. (Mrs) Kundakali Bhowmick (nee Biswas)**  
formerly fellow of Showa University, Japan and  
Medical Doctor of IIT Kharagpur, Air Force,  
Kalaikunda and West Bengal Police has joined as a  
Medical Officer of IIT Patna.

### New Staffs



**Jeetendra Kumar**  
Junior Assistant



**Manish Kumar**  
Junior Engineer  
(Civil)



**Rajesh Kumar**  
Junior Accountant



**Ram Kumar  
Mahto**  
Junior Accountant



**Yashpal Singh**  
JTS, ME



**Sanjiv Maity**  
JTS, ME



**Lucky Kumar**  
JTS, EE



**Amit Kumar Basu**  
JTS, EE

## NEBULA 2011

IIT Patna celebrated NEBULA 2011, the Annual Freshers' Welcome Party on 10<sup>th</sup> August, 2011. The Chief Guest and Guest of Honour on this occasion were Mr. Arun Kumar Singh, IAS, Principal Secretary, Department of Science & Technology, Government of Bihar, and Mr. Sanjay Kumar, IAS, District Magistrate, Patna, respectively.

## INDEPENDENCE DAY



IIT Patna celebrated 65<sup>th</sup> Independence Day on the 15<sup>th</sup> of August, 2011. Professor Swapan Majumdar hoisted the national flag and Professor A T Khan was the chief guest and speaker at the function. Students, Staff and Members of the Faculty participated in the function.

## TEACHERS' DAY PROGRAM



IIT Patna celebrated the Teachers' Day program on 5<sup>th</sup> September, 2011 in the newly constructed Gymkhana building.



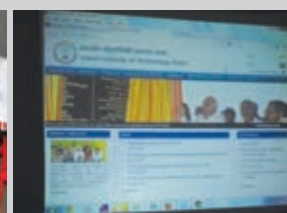
## INAUGURATION

### Gymkhana Building

Prof. Anil K. Bhowmick, Director, IIT Patna inaugurated the newly constructed Gymkhana building on 5<sup>th</sup> September, 2011.



### IIT Patna Website



Prof. Anil K. Bhowmick, Director, IIT Patna inaugurated the newly designed website of IIT Patna.

## SEMINARS

- |   |   |
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| <p>Title : Replacement of Kerosene Lanterns with Light Emitting Diode (LED)<br/>Speaker : Prof. Anand M. Sharan, Faculty of Engineering, Memorial University of Newfoundland, Canada<br/>Date : 21st July, 2011</p> <p>Title : Quantitative Finance And The Role Of "Quants" In Financial Industry<br/>Speaker : Dr. Kaushal Ajitabh, Director, Royal Bank Of Canada<br/>Date : August 4, 2011</p> <p>Title : Nano-Sensors for Enhanced Thermal Energy Storage, Cooling And Sensing<br/>Speaker : Dr. Debjyoti Banerjee, Mechanical Engineering Department, Texas A&amp;M University<br/>Date : 5th August, Friday, 2011</p> <p>Title : Role of Flow in the Upper Atmosphere<br/>Speaker : Prof. Sudip Sen, FAPS, Lancaster University, UK<br/>Date : August 30, 2011</p> <p>Title : Canadian Education System<br/>Speaker : Prof. Braj Sinha, Head of the Department of Religion and Culture, University of Saskatchewan, Canada<br/>Date : August 30, 2011</p> <p>Title : Bioaugmentation with Endophytic Bacteria to Improve Sustainable Biofuel Feedstock Production Combined with Bioremediation<br/>Speaker : Dr. Daniel Van der Lelie, Senior Director Center for Agricultural and Environmental</p> | <p>Biotechnology, Discovery and Analytical Sciences Research Triangle Institute (RTI) International, USA<br/>Date : September 8th, 2011</p> <p>Title : Introduction to Semiconductor Nanostructure<br/>Speaker : Professor Vijay A. Singh, HBCSE, TIFR, Mumbai &amp; National Coordinator NIUS &amp; Science Olympiads<br/>Date : 26.09.2011</p> <p>Title : Some new cyclisation methodology in Heterocyclic Synthesis<br/>Speaker : Prof. David Knight, Professor of Synthetic Organic Chemistry from Cardiff University, UK<br/>Date : 9th December 2011.</p> <p>Title : Resource Recycling for Renewable Energy<br/>Speaker : Khursheed Karim, Process Development Scientist, Lonza Biologics Inc., Hopkinton, MA, USA<br/>Date : 22/12/2011, Thursday</p> <p>Title : IIT Culture : Strength and Weaknesses<br/>Speaker : Prof. M. B. Sharan, Senior Professor of Psychology, School of Humanities and Social Sciences, IIT Patna<br/>Date : 27-12-2011</p> <p>Title : Printed paper photovoltaics<br/>Speaker : Dr.-Ing. Moazzam Ali, Institute for Print and Media technology University of Technology Chemnitz, Germany<br/>Date : 27th December 2011</p> |
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## WORKSHOP

### Workshop on Bond Graph Modeling and Simulation



Students have learned Electrical System, Thermodynamic System, Control System, Hydraulic System, Dynamical System. All these systems have their own language of understanding. The workshop on Bond Graph Modeling and Simulation imparted the ability of understanding the different systems in unified way. Prof. Amalendu Mukherjee was the key speaker in this workshop. He showed the Bond Graph modeling technique and demonstrated through simulation different systems like Electrical, Mechanical, Electro-mechanical, Thermal, Hydraulic and Market Economy.

**Aditya Raj** participated in the workshop organized by the Ministry of Rural Development, Government of India to discuss research methodology with other experts for better comprehending rural development (8th August 2011)



## PERMANENT CAMPUS

### Signing Ceremony

IIT Patna has signed an agreement with NBCC as Project Management Consultant (PMC) and Memorandum of Understanding (MoU) with CPWD on 28th December, 2011 for starting the construction work at Bihta campus.



## LABORATORIES



Transmission line simulator



Three level NPC Converter



High power drives for traction motor

## 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. A new Training and Placement Brochure was published by the TPC for circulation to the prospective employers including several private companies, public sector undertakings, and government agencies. The placement session started in November with Hero Moto Corp Ltd. making offers to 3 Mechanical Engineering

students followed by Microsoft IDC which also made 3 offers to our Computer Science and Engineering Students. Intensive placement session started from December, 2011. In all 15 companies visited the campus and out of the 86 students eligible for placement, 47 have got placed in 15 companies which have visited. About 55% of the students have been placed in the first phase of the placement process. The highest package was offered by Microsoft IDC to a tune of 16.03 LPA. The highest number of offers were made by Infosys Development Center (10) followed by Headstrong (7). The second phase of placement process will start from January, 2012 and so far 6 companies have registered for recruitment 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 the 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 CPI 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.

## EDITORIAL / REVIEW BOARD

**Aditya Raj** has been appointed as the Co-convenor of the Research Committee on "Migration and Diaspora Studies" of the Indian Sociological Society

**A. K. Upadhyay** has been invited to be a member of the editorial board of American Journal of Mathematics and Statistics

**Rajesh Kumar** has been invited to serve on the editorial board of the Language and Language Teaching (ISSN-2277-307X), a journal published by Vidya Bhawan Society and Azim Premji University

## BOOK PUBLISHED

Ramakant Agnihotri and **Rajesh Kumar** (Eds.) *Some landmarks in the history of ideas* by Jayant Lele, Udaipur/Bangalore : Vidya Bhawan Society and Azim, 2011 Premji University

## BOOK CHAPTER

**M. K. Khan**, 'Refrigeration, Air Conditioning and Cold Storage', Handbook of Food Process Design, Wiley-Blackwell (UK), pp. 381-429, 2011

**Nalin Bharti**, 'Privatization as Innovation in Governance in India, Innovative Trends in Public Governance in Asia', Vol.16, Ed. Ari-Veikko, Anttiroiko, Stephen J. Baily and Pekka Valkama, IOS Press, Netherlands, pp203-219, 2011

**Nalin Bharti** and Naveen K. Nishchal, 'Institutional Reform in Higher Education: Is NKN an Option?', Imperatives for Quality Higher Education, Ed. Mridula Sahay and R K Mishra, Macmillan Publishers India Ltd, 2011

## REVIEWS

Manish Kumar and **Aditya Raj**, 'Review: Szarycz's Research Realities in the Social Sciences: Negotiating Fieldwork Dilemmas', Journal of Health Management 13(4) Sage Publications, 2011

**M. K. Khan** has reviewed a research article entitled 'Improvement and Validation of a Generic Rating-Data-Based (GRDB) DX Coils Modeling in Split Systems' for the HVAC&R Research Journal of ASHRAE, 2011

## INVITED LECTURES

**Prof. Anil K. Bhowmick**, delivered a lecture on 'Dispersion of Nanofillers in Polymers : Methods and Theories' in the International Conference on "Innovation in Polymer Science and Technology (IPST)" at Bali, Indonesia during 28<sup>th</sup> November to 1<sup>st</sup> December, 2011

**Prof. Anil K. Bhowmick**, delivered a lecture on 'Natural and Synthetic Nanoparticle : Fundamentals to Applications in Polymer' in the Indo-US Bilateral Workshop on 'Nanoparticle Assembly : From Fundamentals to Applications' at IIT Delhi during 12<sup>th</sup> December to 14<sup>th</sup> December, 2011

**Prof. Anil K. Bhowmick**, was invited as the Chief Guest to deliver a lecture in the 26<sup>th</sup> National Conference on 'Plasma Science & Technology' at Birla Institute of Technology, Patna, 20<sup>th</sup> December, 2011

**N. K. Nishchal**, 'Optoelectronic techniques of image encryption, watermarking, and target identification', Department of Computer Science, National University of Ireland Maynooth, Ireland, Sept 12, 2011

**N. K. Nishchal**, 'Optoelectronic techniques of information security', Bihar INSPIRE Internship Science Camp, Jagdam College Chapra, Aug. 07, 2011

**Rajesh Kumar**, 'Language Teaching and Theoretical Linguistics' at the University Grants Commission Sponsored National Workshop on Globalization, National Integration and English Language Teaching in India at the JD Women's College Patna in association with Guild of National English Writers, Editors, and Critics (GIEWEC), Kerala, Sep 2011

**R. K. Behera**, 'High Efficient Solar Energy Harvesting System for Bihar Green Energy Initiative', Bihar Science Conference, L. S. College, Muzaffarpur, Bihar, India, 11<sup>th</sup> February 2011

**Sahid Hussain** invited as a resource person for the National Symposium on 'Green Chemistry: Key to Life' organised by Department of Chemistry, Magadh Mahila College, Patna University, Patna, 13 December 2011

## PUBLICATIONS

### Journal Publications

V. Chaudhary, A. K. Thakur, **A. K. Bhowmick**, 'Improved optical and electrical response in metal-polymer nanocomposites for photovoltaic applications', *Journal of Materials Science*, 46, 6096, 2011

Moumita Kotal, Suneel Kumar Srivastava, **Anil Kumar Bhowmick**, Sunity Kumar Chakraborty, 'Morphology and properties of stearate-intercalated layered double hydroxide nanoplatelet-reinforced thermoplastic polyurethane', *Polymer International*, 60, 772, 2011

Mithun Bhattacharya, Subharanjan Biswas, **Anil K. Bhowmick**, 'Permeation characteristics and modeling of barrier properties of multifunctional rubber nanocomposites', *Polymer*, 52, 1562, 2011

**Aditya Raj**, 'Diaspora Inquiry: Search for a Method', *International Migration and Diaspora Studies*, Zakir Hussain Centre for Educational Studies, Jawaharlal Nehru University, New Delhi, 2011

Himanshu Pathak, **Akhilendra Singh**, I. V. Singh, 'Numerical Simulation of Bi-material Interfacial Cracks Using EFGM and XFEM', *International Journal of Mechanics and Materials in Design*. (DOI: 1007/s10999-011-9173-3)

**Asif Ekbal** and **Sriparna Saha**, 'A multiobjective simulated annealing approach for classifier ensemble: Named entity recognition in Indian languages as case studies', *Expert Syst. Appl.* 38(12): 14760-14772 (2011), Elsevier, 2011

**Asif Ekbal** and **S. Saha**, 'Weighted Vote-Based Classifier Ensemble for Named Entity Recognition: A Genetic Algorithm-Based Approach', *ACM Transactions on Asian Language Information Processing (ACM TALIP)*, Vol. 2(9), DOI = 10.1145/1967293.1967296 (2011) <http://doi.acm.org/10.1145/1967293.1967296>, ACM

**Asif Ekbal** and S. Bandyopadhyay, 'Named Entity Recognition in Bengali and Hindi using Support Vector Machine', *Linguisticae Investigationes*, Vol. (34), Number (1), PP. 35-67, John Benjamins Publishing Company, 2011

**Asif Ekbal**, Francesca Bonin, **Sriparna Saha**, Egon Stemle, Eduard Barbu, Fabio Cavulli, Christian Girardi, Filippo Nardelli and Massimo Poesio, 'Rapid Adaptation of NE Resolvers for Humanities Domains using Active Annotation.', *Journal for Language Technology*, 2011

Sangita Roy, Avinash Kumar Singh and **Ashok Singh Sairam**, 'Detecting and Defeating SQL Injection Attacks', *International Journal of Information and Electronics Engineering (IJIEE)*, ISSN: 2010-3719, vol. 1, no. 1, pp: 38-46, 2011

**Lokman H. Choudhury** and Tasneem Parvin, 'Recent advances in the chemistry of imine-based multicomponent reactions (MCRs)', *Tetrahedron* 2011, 67, 8213-8228

Suman Pal, **Lokman H. Choudhury** and T. Parvin, 'VCl<sub>3</sub> catalyzed imine-based multicomponent reactions for the facile access of functionalized tetrahydropyridines and  $\beta$ -amino carbonyls', *Molecular Diversity*, Online First™, DOI, 2011

Alam T., **Khan M. K.**, **Pathak M.**, Ravi K., Singh R. and Gupta S. K. A Review on the Clad Failure Studies, *Nuclear Engineering and Design*, 241(9), pp. 3658-3677, 2011

**M. Pathak**, 'Numerical simulation of membrane emulsification: effect of flow properties in the transition from dripping to jetting', *Journal of Membrane Science*, Vol. 382, pp. 166-176, 2011

Mithun Mukherjee and **Preetam Kumar**, 'Overloaded WH-Spread CI/MC-CDMA with Iterative Interference Cancellation', *IEEE Communications Letters*, vol.15, no.12, pp. 1391 - 1393, December 2011 doi: 10.1109/LCOMM.2011.102611.111626

Mithun Mukherjee and **Preetam Kumar**, 'A Novel Code based Iterative PIC Scheme for Multirate CI/MC-CDMA Communication', *EURASIP Journal on Wireless Communications and Networking* 2011, 2011:155

**R. K. Behera** and S. P. Das, 'Analysis and Experimental Investigation for Switching Frequency Characterization of a Three-level AC-DC Converter using Frequency Domain Approach', *IET Power Electronics*, vol. 4, issue 8, pp. 936-942, September 2011

**R. K. Behera**, and S. Behera, 'Design, simulation and experimental realization of nonlinear controller for GSC of DFIG system', *International Journal of Electrical and Computer Engineering*, *World Academy of Science, Engineering and Technology*, vol. 6, no. 2, pp. 96-103, Spring 2011

**R. K. Behera**, 'High Efficient Solar Energy Harvesting System for Bihar Green Energy Initiative', *Manthan*, *International Journal of Scientific Research and Innovation*, vol. 12, pp. 25-28, June 2011

**S. K. Parida**, S. N. Singh and S. C. Srivastava, 'A Review on Reactive Power Management in Electricity Markets', *International Journal of Energy Sector Management*, *Emerald Journals*, vol.5, Issue.2, 2011

**Sriparna Saha** and Sanghamitra Bandyopadhyay, 'Some Connectivity Based Cluster Validity Indices', *Applied Soft Computing*, 2011

Marchand, É., Jafari Jozani, M. and **Yogesh Mani Tripathi**, 'the inadmissibility of various estimators of normal quantiles and on applications to two-sample problems with additional information. Contemporary Developments in Bayesian Analysis and Statistical Decision Theory: A Festschrift for William E. Strawderman, *IMS Collections*, Vol 8, 2011



Manoj Kumar Rastogi and **Yogesh Mani Tripathi**, 'Estimating a parameter of Burr Type XII distribution using hybrid censored observations', International Journal of Quality & Reliability Management, V. 28, 885-893, 2011

## CONFERENCE PUBLICATION

**Aditya Raj**, 'Indian Youth in India and in the Diaspora', University of Calcutta's International Seminar on Meeting Youth Needs in 21st Century: India and Canada (sponsored by the Shastri Indo-Canadian Institute), 28-29 November, 2011

Pooja and **Aditya Raj**, 'Women in Dalit Literature: Voice, Agency, and Subjectivity', Indian Sociological Conference, New Delhi 11-13, 2011

**Aditya Raj**, 'Implementation of MGNREGA in Bihar and its effects on Rural Migration', Indian Sociological Conference, New Delhi on December 11-13, 2011

Himanshu Pathak, **Akhilendra Singh**, I. V. Singh, 'Simulation of bi-material crack problems using extended finite element method and element free Galerkin method', 56th Congress of ISTAM (STAM 2011), NIT Surat, December 19 - December 21, 2011

Himanshu Pathak, **Akhilendra Singh**, I. V. Singh, 'Numerical simulation of thermo-elastic crack problems using EFGM and XFEM', Indian Institute of Space Science and Technology, Tiruvanthapuram, December 16 - December 17, 2011

**Aneek Adhya**, Suman Kr. Dey, 'Dynamic Connection Allocation in WDM Network with Limited Grooming and Regeneration Facilities', 8<sup>th</sup> IEEE International Conference on High-capacity Optical Networks and Emerging Technologies (HONET) 2011, King Saud University, Riyadh, Kingdom of Saudi Arabia during December 19-21, 2011

**Asif Ekbal**, Amit Majumder, Mohammed Hasanuzzaman, **Sriparna Saha**, 'Supervised Machine Learning Approach for Bio-molecular Event Extraction', SEMCCO (2) 2011: 231-238, LNCS, 2011

**Asif Ekbal**, **Sriparna Saha**, Olga Uryupina, Massimo Poesio, 'Multiobjective Simulated Annealing Based Approach for Feature Selection in Anaphora Resolution', The 8th Discourse Anaphora and Anaphora Resolution Colloquium (DAARC 2011), October 6-7, Portugal, PP: 47-58, LNCS

**Sriparna Saha**, Asif Ekbal, Sanchita Saha, 'A Supervised Approach for Gene Mention Detection', SEMCCO (1) 2011: 425-432, LNCS

**Sriparna Saha**, **Asif Ekbal**, Olga Uryupina, Massimo Poesio, 'Single and multi-objective optimization for feature selection in anaphora resolution', 5th International Joint Conference on Natural Language Processing (IJCNLP 2011), Thailand, November 8-13, PP. 93-101

Massimo Poesio, Eduard Barbu, Francesca Bonin, Fabio Cavulli, Egon W. Stemle, **Asif Ekbal**, **Sriparna Saha**, Christian Girardi, Filippo Nardelli, 'THE HUMANITIES RESEARCH PORTAL: Human Language Technology Meets Humanities Publication Repositories', SDH 2011, Denmark, November 17-18

**Sriparna Saha**, Mohammed Hasanuzzaman, Amit Majumder, Asif Ekbal, 'Bio-molecular Event Extraction using Support Vector Machine', The 3rd International Conference on Advanced Computing (ICoAC 2011), December 14-16, 2011

A. Kolya, **Asif Ekbal** and S. Bandyopadhyay, A Hybrid Approach for Event Extraction and Event Actor Identification. In Recent Advances in Natural Language Processing (RANLP), Bulgaria, 592-597, 2011

A. Kolya, D. Das, **Asif Ekbal** and S. Bandyopadhyay, 'Identifying Event - Sentiment Association using Lexical Equivalence and Co-reference Approaches', In Proceedings of Workshop on Relational Models of Semantics (RELMS), ACL 2011, Portland, Oregon PP.19-27, 2011

Arka Prokash Majumdar and **Ashok Singh Sairam**, 'PBFS: A Technique to Select Forwarders in Opportunistic Routing', TENCON 2011, Bali, Indonesia, ISBN: 978-1-4577-0254-9, IEEE Communication Society, 21-24 November 2011

Samant Saurabh and **Ashok Singh Sairam**, 'FC-DERM: Fragmentation Compatible Deterministic Edge Router Marking', The 17th Asia Pacific Conference on Communication, ACPC 2011, Sabah, Malaysia, IEEE Communication Society, 2-5 October 2011

**Karali Patra**, 'Acoustic Emission based Tool Condition Monitoring System in Drilling', World Congress on Engineering 2011 (WCE 2011), Imperial College, London, 6-8 July, 2011

Raj Kumar Sahu, **Karali Patra** and Shovan Bhaumik, 'Deformation behavior of Dielectric elastomer materials: An Experimental Investigation', International Conference on Advances in Materials and Materials Processing (ICAMMP-2011), December 9-11, 2011, Indian Institute of Technology Kharagpur, Kharagpur, India-Oral Presentation by PhD scholar Raj Kumar Sahu

Vijay Narayan, Satish Solanki Raj Kumar Sahu, **Karali Patra** and Shovan Bhaumik, 'Estimation of Specific Energy Density of dielectric elastomer materials: using Mooney Rivlin Model & Ogden Model', International Conference on Advanced Materials (ICAM-2011), December 12-16, 2011, PSG College of Technology, Coimbatore, India-Poster presentation by 3rd year BTech (Mechanical) students Vijay Kumar and Satish Solanki

Vijay Narayan, Raj Kumar Sahu, **Karali Patra** and Shovan Bhaumik, 'Specific Energy Density of Dielectric Elastomer Actuator Materials', 26th Indian Engineering congress 2011 (IEC2011), December 15-18, 2011, Bangalore, India [presented by Vijay Kumar]



Satish Solanki, Raj Kumar Sahu, **Karali Patra** and Shovan Bhaumik, 'A Theoretical Model for Viscoelastic Behavior of Dielectric Elastomer Materials', 26th Indian Engineering congress 2011 (IEC2011), December 15-18, 2011, Bangalore, India. [presented by Satish Solanki]

Ravi Shankar Anand and **Karali Patra**, 'Emerging modeling and simulation techniques for mechanical micro-machining - a review', 26th Indian Engineering congress 2011 (IEC2011), December 15-18, 2011, Bangalore, India. [Presented by Ravi Shankar Anand]

M. Raghavendra and **M. Pathak**, 'Calculation of conjugate heat transfer in a surface injected rotating cylinder in crossflow: a simulation of film cooling in the leading edge region of a turbine blade', 20th National and 9th International ISHMT-ASME Heat and Mass Transfer Conference, IIT Madras, India, 2011

B.K. Chaitanya Reddy, K. S. Veer Reddy and **M. Pathak**, 'Computation of energy loss in a T-junction flow with large area ratio', 20th National and 9th International ISHMT-ASME Heat and Mass Transfer Conference, IIT Madras, India, 2011

Raj Rajesh, Sanjib Bordoloi, **Nalin Bharti**, 'Assessing the Role of Trade in Transmission of Global Financial Crisis to the Indian Economy', Singapore Economic Review Conference, at MandarinOrchard Singapore 4 - 6 August 2011

**Nalin Bharti**, Participated in IGC Bihar Growth Conference, 14-15 Dec 2011, organized by International Growth Centre, London School of Economics and Political Sciences and ADRI, Patna

**N. K. Nishchal**, T. Pitkaaho, and T. J. Naughton, 'Digital watermarking to prevent digital hologram piracy', XXXVI OSI Symposium on Frontiers in Optics and Photonics (FOP11), IIT Delhi, Dec. 3-5, 2011

S. K. Rajput and **N. K. Nishchal**, 'Nonconventional joint transform correlator for security applications,' XXXVI OSI Symposium on Frontiers in Optics and Photonics (FOP11), IIT Delhi, Dec. 3-5, 2011

S. K. Rajput and **N. K. Nishchal**, 'Image encryption based on phase-truncation and interference using fractional Fourier transform', First International OSA Network of Students (IONS) Conference, IIT Delhi, Dec. 1-2, 2011

S. K. Rajput and **N. K. Nishchal**, 'Joint fractional Fourier transform correlator for encrypted image verification', Photonics Ireland 2011, Dublin, Ireland, Sept. 7-9, 2011

**N. K. Nishchal**, 'Effect of image processing operations on fractional Fourier transform based image watermarking technique', Photonics Ireland 2011, Dublin, Ireland, Sept. 7-9, 2011

N. Bharti and **N. K. Nishchal**, 'Institutional reform in higher education: Is NKN an option?' Imperatives for Quality Higher Education, Eds. M. Sahay and R. K. Mishra, Macmillan Publishers India Ltd., ISBN: 978-9350-59004-1, 2011

Mithun Mukherjee and **Preetam Kumar**, 'Convolutionally Coded CI/MC-CDMA for Wireless Broadband Communications', IEEE ANTS, December 2011

Mithun Mukherjee and **Preetam Kumar**, 'Performance of WH-Spread CI/MC-CDMA System with Interference Cancellation Receiver', Broadband Wireless Access Workshop BWA2011 (IEEE GLOBECOM), December 2011

**Rajesh Kumar**, 'Knowledge of language' and language teaching' in the proceedings of the 56<sup>th</sup> All India English Teachers' Conference, Barailly College Barailly

**R. K. Behera**, S. P. Das and W. Gao, 'High Power Induction Motor Drive for Public Electric Transportation System', Proceedings of Centenary Conference, Electrical Engineering (CCEE'11), Indian Institute of Science, Bangalore, India, December 14-17, 2011

**R. K. Behera** and S. P. Das, 'Analysis and Experimental Investigation of a Current Controlled AC-DC Converter System', Proceedings of National Power Electronics Conferences (NPEC'11), Bengal Engineering and Science University, Shibpur, Howrah, India, December 19 - 22, 2011

A. K. Singh and **S. K. Parida**, 'Selection of Load Buses for DG Placement Based on Loss Reduction and Voltage Improvement Sensitivity', Proc. of IEEE international Conference on Power Engineering, Energy and Electrical Drives, Torremolinos (Malaga), Spain, 11-13 May 2011

A. K. Singh and **S. K. Parida**, 'Combined Optimal Placement of Solar, Wind and Fuel Cell Based DGs Using AHP', Proc. of World Renewable Energy Congress-Sweden, Linkoping, Sweden, 8-13 May 2011

Manoj Kumar Rastogi and **Yogesh Mani Tripathi**, 'Estimating the Scale Parameter of a Kappa Distribution Under Progressive Type-II Censoring', National Meet of Research Scholars in Mathematical Sciences, IIT Kharagpur, 12-15 October 2011

Manoj Kumar Rastogi and **Yogesh Mani Tripathi**, 'Empirical Bayes Estimators for a Rayleigh Distribution Under Hybrid Type-II Censoring', National Conference on Bayesian Statistics and its Emerging Applications, Banaras Hindu University, Varanasi, 9-10 December 2011

Manoj Kumar Rastogi, **Yogesh Mani Tripathi** and A. Asgharzadeh, 'Estimating the scale parameter of half-logistic distribution under hybrid censoring', International Conference on Quality and Reliability Engineering: Recent Trends and Future Directions, Indian Statistical Institute, Bangalore, 20 - 22 December 2011

**Yogesh Mani Tripathi**, Sukhdev Singh and Manoj Kumar Rastogi, 'Estimating Normal Parameters Using Progressive Type-II Censoring', International Conference on Quality and Reliability Engineering: Recent Trends and Future Directions, Indian Statistical Institute, Bangalore, 20 - 22 December 2011

## SPONSORED PROJECT

**Ashish K. Upadhyay** was awarded library grant for department of Mathematics from National Board of Higher Mathematics, DAE, Government of India

**Debabrata Seth** was awarded a CSIR sponsored project on 'Study of osmotic and activity coefficients of binary systems containing room temperature ionic liquids (RTILs) and molecular solvents by vapour pressure osmometry'

**Sathya Peri** was awarded a NetApp sponsored project on 'Building an Efficient STM System using conflict-graphs'

**Somnath Tripathy** was awarded a DRDO (CARS) sponsored project on 'Development of authentication and key management for battle field communication network'

## VISITS ABROAD

**Prof. Anil K. Bhowmick**, visited University of California, Berkeley, University of California, Davis, Stanford University, U.S.A. during 15-25<sup>th</sup> August, 2011 and also attended IIT -Bihar group meeting in California

**Prof. Anil K. Bhowmick**, visited Bali, Indonesia during 28<sup>th</sup> November to 1<sup>st</sup> December, 2011 to deliver a plenary lecture in the International Conference on 'Innovation in Polymer Science and Technology' (IPST)

**Asif Ekbal** visited Chiang Mai, Thailand to attend the '5th International Joint Conference on Natural Language Processing (IJCNLP 2011)' and to chair the workshop titled "5th International Workshop on Cross Lingual Information Access: Computational Linguistics and the Information Need of Multilingual Societies" from November 9-13, 2011

**Ashok Singh Sairam** visited Bali, Indonesia to present a paper at the IEEE international conference TENCON 2011 during 21 - 24 November 2011

**N. K. Nishchal** visited Dublin, Ireland to present a paper and participate in Photonics Ireland 2011, during September 7-9, 2011

## LECTURES AND VISITORS

### Institute Visitors

Name of the Person & Designation	Date of visit to IIT Patna
Dr. Kaushal Ajitabh Director, Royal Bank of Canada	4.8.2011
Dr. Debjyoti Banerjee Mechanical Engineering Department Texas A&M University, USA	5.8.2011
Prof. Braj Sinha Head, Department of Religion & Culture University of Saskatchewan, Canada	30.8.2011
Prof. Sudip Sen Lancaster University, U.K.	30.8.2011
Prof. R. Bhaskaran Former Dean & Prof.-in-charge, Training & Placement IIT Kharagpur	1.9.2011



Name of the Person & Designation	Date of visit to IIT Patna
<p>Dr. Danil Van der Lelie Sr. Director, Research Triangle Institute (RTI) International, USA</p>	8.9.2011
<p>Prof. Raju Pandey Department of Computer Science University of California, Davis, USA</p>	28.9.2011
<p>Dr. Masashi Otsuki and Dr. Ashoke Karmokar Bridgestone Corporation, Japan</p>  <p><i>From left to right : Dr. Vidhi Choudhury, Mr. Titash Mondal, Dr. Ashoke Karmokar, Prof. Anil K. Bhowmick, Dr. Masashi Otsuki, Dr. Bandana Talukdar, and Ms. Nibedita Kasyapi</i></p>	14.11.2011
<p>Dr. A.S. Radhakrishna, General Manager, GE Global Research Dr. Ashok Menon, Technical Director, GE Global Research Dr. Samik Gupta, GE India Technology Centre</p>  <p><i>From left to right : Dr. Samik Gupta, Dr. Ashok Menon, Dr. A.S. Radhakrishna, Prof. Anil K. Bhowmick</i></p>	17.11.2011
<p>Dr. Ajay Dalai, Associate Dean; Dr. Jerzy Szpunar, Mechanical Engg. department; Dr. Ding-Yu Peng, Chemical and Biological Engineering; Dr. Oon-Doo Baik, Chemical and Biological Engineering; Dr. Amin Abd Elrehim Elshorbagy, Civil and Geological Engineering; and Dr.Khan Arif Wahid, Elecrical and Computer Engineering from University of Saskatchewan, Canada</p>  <p><i>From left to right : Khan Arif Wahid, Ding-Yu Peng, Amin Abd Elrehim Elshorbagy, Prof. Anil K. Bhowmick, Jerzy Szpunar, Ajay Dalai, Oon-Doo Baik, Dr. A.K. Thakur and Dr. Prolay Das</i></p>	19.12.2011
<p>Dr. Sukhamay Kundu Professor of Computer Science Louisiana State University, USA.</p>	19.12.2011 to 23.12.2011

## RESEARCH SCHOLARS

### SCHOOL OF SCIENCES



**Banibrata Maity**  
Chemistry



**Rina Kumari**  
Chemistry



**Sheikh Karamthulla**  
Chemistry



**Titash Mondal**  
Chemistry



**Samiyara Begum**  
Chemistry



**Snehasish Mondal**  
Chemistry

## RESEARCH SCHOLARS' CONFERENCE PRESENTATIONS

**Anand K. Tiwari**, '*Semi - equivelar maps*', presented in Annual conference of Indian Math. Society, 27 - 30 December 2011

**Anand K. Tiwari**, visited Harish-Chandra Research institute for short duration in the month of August 2011

**Anand K. Tiwari** and **Dipendu Maity**, attended Advanced foundational school, held in IISER Pune during 4 Dec - 31 Dec December 2011

**Dipendu Maity**, attended Advanced Instructional School in Algebraic Topology, held in NEHU, during 13 Jun - 2 Jul, 2011

**Suman Kr. Dey**, Aneek Adhya, '*Integrated Grooming and Regeneration Capable OXC-based Connection Provision in WDM Network*', IEEE INDICON 2011, Hyderabad, India, December 16-18, 2011

## SPORTS

We have organized intramural competition in which students participated in inter departmental competition in different sports like Tennis, Table Tennis, Basketball, Volleyball and Cricket.

IIT Patna students participated in 47th Inter IIT competition held at IIT Kharagpur between 10th to 19th December 2011. IIT Patna contingent participated in various games and sports and formed fairly well.

IIT Patna staff member's also participated at 19th inters IIT staff sports meet held at IIT Kharagpur between 21st to 25th December 2011.





## LITERARY CORNER

### SPIRIT OF DIARY WRITING

Keeping a diary, writing down one's thoughts and feeling in a diary is a tool for intellectual and spiritual growth. We tend to underestimate the value of diary writing because it seems so simple. However, it enables us to think over a problem and take a decision. It allows us to take a good look at our life and monitor our progress. Writing a diary does not require a literary master-piece. The aim is to pour one's heart out into the diary. It is necessary to be honest in recording one's thoughts.

It is important to "write everyday, a few pages, it will help you in everyday life". Swami Sivanand suggests to the aspirants to keep a record of hours of sleep, reading, exercises and pranayama to monitor their progress.

Writing down one's thoughts and feelings, fears and problems is indeed therapeutic. Gandhiji too advised the students to keep a diary. It enables us to sit quietly and observe what is happening. It's a kind of mindfulness meditation. But unlike breathing meditation that produces a thought-free state, diary promotes thoughts.

If worries keep us awake, just write them down and think what we are going to do about it next morning. Once the problem is defined and we acknowledge that we are dealing with it, we should be able to relax and sleep. So, let's pick up a pen or type away on the computer, the next time we are uneasy about the world or about ourselves.

-Rahul Kumar  
B.Tech, CSE, 1<sup>st</sup> year

### COMMUNICATION PREVENTING COMMUNICATION

Communication does prevent communication. The statement would sound a lot more meaningful if the two 'communication's are defined properly. The first 'communication' stands for the speedy means of information transfer like television, computers etc. On the other hand, the second one means the meaningful and thoughtful conversation which is a specialty of humans.

Although some would oppose such a statement, it has been proved through research that the statement is

indeed true. Man evolved from apes. This evolution led to a lot of physical and mental changes. Man being a social animal started interaction with the creatures of his kind. It led to the formation of a society. Men thus began communicating with each other. They created new and sophisticated means to facilitate this interaction. Scientists are even trying to develop technology to speak with animals and other living-beings. Today we are very close to even communicating with the creatures from other worlds, though a successful attempt is yet to be made. But all this while it seems man has forgotten that he is no longer actually communicating with his own kind.

Few would argue that since its inception broadcast television has greatly enhanced communication. In the early days, television brought members of the family together to watch their favourite family programs and to exchange their views regarding the same. It served as a speedy and effective means of transporting news to the masses. It also facilitated a lot of other things which previously seemed impossible.

However over a period of time, the role of television has undergone a dramatic change. Today it is serving as a baby-sitter for the children of busy parents and an escape from the society for people wishing to avoid communication with those around them. People today prefer to sit for hours in front of the electronic box. Some say that it helps to avoid thoughts which trouble us and to forget the world around us. And this is what leads to reduction of meaningful communication through speech. Statistics reveal that the amount of conversation which people have with their family has been reduced to shocking levels. If seen as a problem, this poses a bigger danger to mankind- a danger even bigger than drug addiction or cancer as everyone is a victim to this disease.

Television is a one way conversation wherein information is fed into the minds of the masses. Though this interaction has increased the sales of various products, encouraged various government schemes and solved numerous problems, it has itself become a problem which has not been consciously realised.

When it comes to computers, one may ask, "Does it not offer greater promise for thoughtful and reflective communication than television?" After all, the email and chatting facility does promote communication with those who are beyond physical reach. The answer is

'yes'. And this may be true to an extent. There are plenty of stories about how this facility brought about the reunion of a family or even promoted long distant friendships and relationships.

But we are talking about meaningful and thoughtful interaction. So does it offer any scope for this kind of conversation? In fact, written letter can be said to be better since it involves a lot of thinking by the writer. On the contrary, emails have now become a way of avoiding face-to-face communication or even a means of distributing quick memos.

When it comes to the World Wide Web, it might have increased information access rate and promoted all sorts of curiosity amongst humans. Distant education might have made it easier for education to reach even the most remote areas of the world. But this has in turn reduced the traditional student teacher communication. Everything being just a 'click' away, speech itself has become useless. One would prefer to ask a question to the 'Google Search Engine' than to ask it to a fellow human (and unconsciously we are encouraging this).

Today website owners are trying to find ways through which they can offer services and materials which people desire unconsciously. So in a few years, we will start getting things without even consciously desiring for it. Thus we will land up ending even the conversation with ourselves.

This seems to be a new kind of evolution. We started with apes to become animals who could 'think'. And now our own methods of promoting thought and ideas will gradually lead us to a stage wherein thinking and interacting will become unnecessary.

Our techniques of improving and accelerating communication seem to have (kind of) backfired. Thus, on balance these high- speed electronic media do intend to prevent rather than facilitate meaningful and thoughtful communication. In the final analysis, any mass medium carries the potential of uplifting us, enlightening us, and helping us to communicate with and understand one another. However, by all accounts, television has not fulfilled that potential; and whether the web will serve us any better is ultimately up to us as a society.

-Peshal B. Nayak  
B.Tech, EE, 2nd year

## POEM

~~ चाँद ~~

दिन में आते नहीं, बस रात में ही आते हो,  
ओ चाँद तुम इतना क्यों शरमाते हो,  
इतने हैं तारे फिर भी तनहा नजर आते हो,  
न जाने कैसे अपने आप को बहलाते हो,  
खुबसूरत हो इतना हर कोई चाहता है तुम्हें  
पर दूर इतने हो कि नजरो से चूमता है तुम्हें,  
तेरी खामोशियाँ मुझे नहीं भाति है,  
इतनी भी बेखुदी, अच्छी नहीं होती है,  
आओ इक बात अपने दिल कि बताता हू तुझे,  
आ जाओ मेरे पास या ले जाओ अपने साथ मुझे....

- Vinod Kumar  
Jr Asst

## Institute Holidays for the Year 2012

S.No.	Holiday	Date	Day of Week
01.	Republic day	26-Jan-2012	Thursday
02.	Milad-Un-Nabi or Id-E-Milad	05-Feb-2012	Sunday
03.	Maha Shivratri	20-Feb-2012	Monday
04.	Holi	08-Mar-2012	Thursday
05.	Mahavir Jayanti	05-Apr-2012	Thursday
06.	Good Friday	06-Apr-2012	Friday
07.	Buddha Purnima	06-May-2012	Sunday
08.	Independence Day	15-Aug-2012	Wednesday
09.	Idul Fitr*	20-Aug-2012	Monday
10.	Mahatma Gandhi's Birthday	02-Oct-2012	Tuesday
11.	Dussehra (Maha Ashtami)	22-Oct-2012	Monday
12.	Dussehra (Maha Navmi)	23-Oct-2012	Tuesday
13.	Dussehra (Vijaya Dashami)	24-Oct-2012	Wednesday
14.	Idul Zuha (Bakrid)*	27-Oct-2012	Saturday
15.	Diwali (Deepawali)	13-Nov-2012	Tuesday
16.	Chhat Puja	19-Nov-2012	Monday
17.	Muharram*	25-Nov-2012	Sunday
18.	Guru Nanak's Birthday	28-Nov-2012	Wednesday
19.	Christmas Day	25-Dec-2012	Tuesday

\* Subject to change on visibility of the moon.

## Editorial Board

Nalin Bharti, Department of Humanities and Social Sciences  
Rajesh Kumar, Department of Humanities and Social Science  
Aditya Raj, Department of Humanities and Social Sciences  
Smriti Singh, Department of Humanities and Social Sciences  
Ashutosh Sinha, Scientific Officer, IIT Patna  
Ashish Prasad, Junior Assistant, IIT Patna





## INDIAN INSTITUTE OF TECHNOLOGY PATNA Academic Calendar for the Year 2012

### ACADEMIC CALENDAR FOR SPRING SEMESTER 2011-12

EVENT	DATE	DAY
Registration for all existing UG & PG students and Registration for all new PG entrants (PhD students)	Dec 26, 2011	Monday
First day of Instruction	Dec 28, 2011	Wednesday
Last date for late registration with fine	Jan 02, 2012	Monday
Last date for course adjustment	Jan 04, 2012	Wednesday
Communicating the list of short attendance cases to respective Faculty Advisors	Feb 08-10, 2012	Wednesday to Friday
<b>Mid Semester Examination (MSE)</b>	<b>Feb 13 – 18, 2012</b>	<b>Monday to Saturday</b>
Last date for showing mid-semester answer copies to students	Feb 24, 2012	Friday
Last date for assigning final-year-project to pre-final year UG students	Feb 27, 2012	Monday
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	Mar 02, 2012	Friday
Last date for sending list of courses to be offered in next semester	Mar 28, 2012	Wednesday
Last date for General Time Table slot allocation for next semester	April 04, 2012	Wednesday
Course pre-registration and submission of fee for next semester (All students have to deposit their next semester fee but that does not mean the permission to register into next semester without qualifying the Institute rules of minimum CGPA in current semester)	April 09 – 13, 2012	Monday to Friday
Submission of the applications for changing the Branch for B.Tech II-semester students	April 16 – 20, 2012	Monday to Friday
Last day of Instructions	April 20, 2012	Friday
<b>End Semester Examination (ESE)</b>	<b>April 23 - 28, 2012</b>	<b>Monday to Saturday</b>
Make-up-Examination	April 30-May 02, 2012	Monday to Wednesday
Last date for submission of Grades	May 07, 2012	Monday
Last date for Department UG & PG Program Committee meeting for considering results of all students	May 08, 2012	Tuesday
IAPC meeting	May 10, 2012	Thursday
Declaration of Results	May 11, 2012	Friday
Last date for finalization of Branch Change	May 15, 2012	Tuesday
Summer Break begins (Only for UG students)	April 30, 2012	Monday
Summer Vacation (Only for Teachers)*	May 14 – July 15, 2012	Monday to Sunday
*Teachers can avail their vacation leave according to the Institute rules.		
Industrial/Summer Training for BTech students of all branches after sixth semester (8 weeks training during summer break)	Between April 30, 2012 and July 06, 2012	
Registration of students for the Summer Quarter (SQ)	May 17, 2012	Thursday
SQ classes begin on	May 18, 2012	Friday
Mid-Term Examination for SQ	June 07 – 09, 2012	Thursday to Saturday

## ACADEMIC CALENDAR FOR SPRING SEMESTER 2011-12

EVENT	DATE	DAY
Conduct of written Test/interview by Departments for PhD admissions	June 11 - 15, 2012	Monday to Friday
SQ classes end on	July 07, 2012	Saturday
End-Term Examination for SQ & Exams for supplementary courses	July 09-11, 2012	Monday to Wednesday
Make-up-Examination for SQ	July 12-13, 2012	Thursday and Friday
Last date for submission of grades for SQ and supplementary courses	July 16, 2012	Monday
IAPC meeting and declaration of Results of SQ and supplementary courses	July 18, 2012	Wednesday

## ACADEMIC CALENDAR FOR AUTUMN SEMESTER 2012-13

EVENT	DATE	DAY
Welcome, Orientation and Registration Programme for all new UG entrants	July 23, 2012	Monday
Registration for all continuing students and new PG Students	July 24, 2012	Tuesday
First day of Instruction	July 25, 2012	Wednesday
Last date for late registration with fine	July 30, 2012	Monday
Last date for course adjustment	Aug 01, 2012	Wednesday
Communicating the list of short attendance cases to respective Faculty Advisors	Sep 05 - 07, 2012	Wednesday to Friday
<b>Mid Semester Examination (MSE)</b>	<b>Sep 10 – 15, 2012</b>	<b>Monday to Saturday</b>
Last date for showing mid-semester answer copies to students	Sep 21, 2012	Friday
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	Sep 28, 2012	Friday
Last date for sending list of courses to be offered in next semester	Oct 29, 2012	Monday
Last date for General Time Table slot allocation for next semester	Nov 01, 2012	Thursday
Course pre-registration and submission of fee for next semester (All students have to deposit their next semester fee but that does not mean the permission to register into next semester without qualifying the Institute rules of minimum CGPA in current semester)	Nov 05 - 09, 2012	Monday to Friday
Last day of Instructions	Nov 16, 2012	Friday
Preparation leave for Examination	Nov 20, 2012	Tuesday
<b>End Semester Examination (ESE)</b>	<b>Nov 21 – 24, and 26– 27, 2012</b>	<b>Wednesday to Saturday, and Monday to Tuesday</b>
Make-up-Examination	Nov 29 - Dec 01, 2012	Thursday to Saturday
Last date for submission of Grades	Dec 06, 2012	Thursday
Last date for Department UG & PG Program Committee meeting for considering results of all students	Dec 07, 2012	Friday
IAPC meeting	Dec 10, 2012	Monday
Declaration of Results	Dec 11, 2012	Tuesday
Winter Break begins (Only for UG students)	Nov 28, 2012	Wednesday
Conduct of written Test/interview by Departments for PhD admissions	Dec 6-12, 2012	Thursday to Wednesday
Winter Vacation (Only for Teachers)*	Dec 13- 26, 2012	Thursday to Wednesday
*Teachers can avail their vacation leave according to the Institute rules.		
Registration for all existing UG & PG students and Registration for all new PG entrants for spring semester 2012-13	Dec 31, 2012	Monday
First day of Instruction for spring semester 2012-13	Jan 01, 2013	Tuesday