



Prof. M.K. Surappa

### From the Director's Desk

It gives me immense pleasure to introduce the 1<sup>st</sup> issue, 4<sup>th</sup> volume of the biannual newsletter "PRAJWALAM". IIT Ropar is one of the eight new IITs set up in 2008-09. Currently, we are functioning from a self-contained transit campus that has the entire required infrastructure for teaching and research. Already three batches of B.Tech. students have been passed out from IIT Ropar. Few months back we had our third convocation.

Our students have demonstrated their capabilities and brilliance by securing internships in highly reputed international organizations. Our faculty and students regularly present their research findings in various academic conferences. It may be pertinent to mention that the students in collaboration with the teachers have been successfully organizing annual cultural festival, Zeitgeist, since 2010.

Congratulations to the members of editorial board and the staff members whose whole hearted efforts helped in materializing this issue of "PRAJWALAM". It is the endeavor of our newsletter to acquaint its readers with the achievements of the IIT Ropar fraternity.

### IIT Ropar welcomes the New BoG Chairperson

Ms. Lila Poonawalla has been appointed as the new Chairperson of the Board of Governors of IIT Ropar. Ms. Poonawalla is currently the Director on the Board of KPIT Technologies, Noble Tek PLM Solutions Pvt. Ltd., Pragati Leadership and Blossom Industries and a strategic advisor to Erehwon Consulting, Smart Cloud Info tech Private Limited. She is also on the Advisory Board of Thyssen Krupp Industries India Pvt. Ltd. She is the Chairperson Emeritus of Quality Circle Forum of India – Maharashtra Chapter which is actively involved in the Quality Circles Movement. She is a recipient of the prestigious Padmashree, in 1989, by the Indian Government and also recipient of the Polar Star Award and had been named as the Officer of the Royal Order. Additionally, she has also received many other awards and honours.

IIT Ropar expresses its sincere gratitude to Ms. Lila Poonawalla for her guidance that she would provide as the first woman Chairperson of BoG, IIT Ropar. It is also time to acknowledge and place on record the immense services of the outgoing Chairman of BoG, Prof. V. S. Ramamurty for his valuable participation, guidance and suggestions.



Ms. Lila Poonawalla



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## 3<sup>rd</sup> Convocation of IIT Ropar

The 3<sup>rd</sup> convocation of IIT Ropar was held on November 15, 2014.

The convocation was declared open by Ms. Lila Poonawalla, Chairperson, Board of Governors of the Institute. This was followed by a report of the Institute by Prof. M.K. Surappa, the Director. Prof. Surappa started with an introduction of the Chief Guest for the Convocation, Prof. Goverdhan Mehta, who is currently a National Research Professor, University of Hyderabad and Former Director, Indian Institute of Science, Bangalore. Prof. Surappa introduced Ms. Lila Poonawalla, Chairperson of IIT Ropar's Board of Governors who is also the



Chairperson of Lila Poonawalla Foundation and Former CMD Alfa Laval-Tetra Pak, India.

After the Director's presentation, Chairperson BoG, addressed the gathering. She offered her best wishes to the students receiving their degrees and proceeded to identify the challenges faced by newly established IITs. Faculty shortage due to market forces, the loss of the traditional aura associated with the teaching profession and inadequate infrastructure were cited as some of the reasons for the lack of motivation among the best of students of today to take up higher education and research leading to a teaching career. One of the solutions mentioned was the possibility of putting in place a national faculty intern programme. After identifying promising young graduates, they can be nurtured through their M.Tech, Ph.D and a stint of Post-Doctoral programme lasting over almost a decade with an assured opportunity for a teaching career in Institutions of higher learning. Ms. Poonawalla expressed her faith in IIT Ropar's ability to offer



unique environment for training in problem solving considering its multi-disciplinary strengths.

The Chief Guest, Prof. Goverdhan Mehta, thanked Prof. Surappa and authorities of IIT Ropar for inviting him to the Convocation. He described the role and need of IITs for our society and the nation. He complimented IIT Ropar for its efforts to enhance the number of high quality engineering graduates. Prof. Mehta congratulated the graduating students and pointed out their need for the development of country and stated that the country is going to throw plenty of opportunities for them. He emphasized the need for high quality research in engineering and technological institutions. Prof. Mehta also talked about the need to bridge the considerable gap between the academia and industry and pondered on many possibilities of technology being brought to have a bearing on societal issues. Prof. Mehta concluded by wishing the students well in their further pursuits.

The Chief Guest's speech was followed by the award of degrees by the Chairman of the Senate. After the award of degrees, medals were presented by the Chief Guest and the Chairperson, Board of Governors to the meritorious students. The President of India Gold Medal for obtaining the highest CGPA amongst the graduating students of B.Tech. in the year 2013-14 was awarded to Mr. Ashish Jindal of the department of Electrical Engineering. The Director's Gold Medal for the best all round performance was awarded to Mr. Somyanshu Arora of Mechanical Engineering. Institute Silver Medals for obtaining the highest CGPA amongst the students graduating of the B. Tech. programme in Computer Science and Engineering went to Mr. Abhisar Sharma and Mr. Somyanshu Arora in Mechanical Engineering.

## IIT Ropar's New Campus



A function was held on November 14, 2014 at the site of new campus of IIT Ropar. Ceremony of Bhoomi Pujan followed by Ardas was performed by Padmashree Ms. Lila Poonawala, the Chairperson, Board of Governors of IIT Ropar and Director

Prof. M.K. Surappa in the august presence of Prof. N. Sathyamurthy, Director, IISER, Mohali and Members of BoG, IIT Ropar. Mr. A. K Sarin, Prof. A. Sridhran and Mr. S. Ramanujam (Members of BWC) and other officials welcomed Mr. D. S. Kapur, ADG of CPWD and Mr. Harnam Singh, the Chief Engineer of CPWD. Mr. S.R. Sikka presented the model of new campus to senior officials and institute's consultant for this project. faculty members, students and staff participated in the ceremony of unveiling of foundation plaque.



## ZEITGEIST - Annual Fest' 14

Zeitgeist'14 a yearly cultural festival of IIT Ropar was held during October 9-11, 2014. This edition of Zeitgeist was different in many ways from its previous editions. With footfall of more than 4500 college students from all over North India, it was a huge hit with record breaking participation with various cultural and art events based on singing, dance, dramatics, fashion and painting competitions. Zeitgeist'14 was inaugurated by Prof. Javagal Sridhar, Registrar, IIT Ropar on 9<sup>th</sup> October followed by dance performances by students of IIT Ropar and music festival later in the evening. The next two days of the extravaganza included professional performances of "Astiva-the Band", "Sunburn Campus-DJ Sound Avatar" and a band named "The Local Train". The team from IIT Ropar stood first in the fashion show and Mr. Soumanyu Maingi, final year student from the Mechanical Engineering won the Mr. Zeitgeist'14 award.



## Design Exhibition and Project Presentation

The Department of Electrical Engineering and the School of Mechanical, Materials and Energy Engineering conducted a Design Exhibition on November 17, 2014. Students from all branches displayed their products designed as part of several courses. The projects and products of the following courses were displayed:

- Product Design and Realization I course (GEL 101) projects (guided by Dr. Prabir Sarkar): 1st year students of CSE, EE, and SMMEE presented 14 projects
- Digital Electronics Lab course (EEP 206) projects (guided by Dr. Rohit Y. Sharma): 2nd year students of CSE and EE presented 40 projects
- Computer Aided Design and Manufacturing (MEL 474) projects (guided by Dr. Anupam Agrawal and Dr. Prabir Sarkar) : Final year students presented 6 projects.



The exhibition was a huge success with large number of participants. Prof. P.K. Raina, Prof. Incharge of Academics and Research inaugurated the exhibition. Prof. Raina, Dr. J.S. Sahambi (HOD of EE), and Dr. Harpreet Singh (HOD of SMMEE) appreciated the efforts of the students and the mentoring faculty members.

# Book Exhibition @ IIT Ropar



The 1<sup>st</sup> Book Exhibition of IIT Ropar was inaugurated by Prof. Javagal K Sridhar, Registrar of IIT Ropar on October 13, 2014. While welcoming the gathering composed of faculty members, library staff, research scholars and students he informed that this exhibition was an excellent platform for researchers, academicians and students. The benefits of this exhibition include wider choice of books, opportunities for faculties to choose books suitable for their class room teaching and suitable individual research; negotiate discounts, to go for Indian edition books which saves foreign exchange apart from being available at affordable price; meeting point for researchers and students from neighboring universities and organizations to exchange information on books and teaching methodologies and so on. Prof. Sridhar suggested speedy procedures for indent to procurement to cut administrative delays and to adopt simplified procedures. He opined

that such book exhibitions must be periodical and attract wider participation. Finally, he thanked all publishers for their participation. The book exhibition was held for two days beginning from October 13 - 14, 2014 showcasing books from all the branches of engineering and science by leading publishers.

## Hindi Pakhwara

In order to promote knowledge and use of official language, Hindi, among the faculty, staff and the students in consonance with the policy of Government of India, the Indian Institute of Technology Ropar organized various competitions during the 'Hindi Pakhwara' (14-28, September, 2014) at its campus. It was on September 14, 1949 when the Constitution makers of the country decided to accord the status of Official Language of the Union to Hindi. To commemorate the historic occasion, Hindi Diwas is observed every year, this day. Prof. M.K. Surappa, Director, in his address said that as a responsible citizen of this country, we must promote and encourage the use of Hindi, which is an epitome of our being in true spirits.

During the 'Hindi Pakhwara', nine competitions were held for the staff and student community of IIT Ropar that witnessed the great oratory, logical skills and the literary acumen of the faculty, staff and students in Hindi. A competition was held for the children of faculty and staff of IIT Ropar. Emphasizing on the importance of progressive use of Hindi, Prof. M.K. Surappa exhorted all members to implement the policies and instructions on publicity and promotion of the Official Language.



## Placement News

The placement season of the fourth batch (B.Tech. entry batch of 2011) of IIT Ropar was very encouraging. Response from the industries was overwhelming, with various companies/organizations participating in the process. Till now 69 offers to students have been made. 25 companies have already conducted campus placement test/interviews as compared to a total of 21 companies in 2013-14. The companies that have participated so far in the placement season 2014-15 include Amazon, Microsoft, Flipkart, Ebay, Arista Networks, Avanti, Navyug, Indian Navy, Larsen & Toubro, Nagarro, Cognizant, SCA Technologies, Kritikal, Mu Sigma etc. Some of the new companies on the campus were Snapdeal, Zomato, Mahindra & Mahindra Ltd, Tata Motors, Kayako, Meritnation, Capgemini, Elegant Marine, R Systems and ITC Infotech. One happy addition has been the Indian Navy.

The average salaries offered to our students till date is:

Departments	Annual Salary Package (approx)
Computer Science and Engineering	Rs 15 Lakhs
Electrical Engineering	Rs 8.41 Lakhs
Mechanical Engineering	Rs 7 Lakhs

The highest package offered is 28.5 Lakhs per annum by Ebay. Some of our students have been selected by Amazon, Microsoft, Arista Networks and Navyug for Summer Internship 2015 during internship interviews. It is worth mentioning that 13 students are selected by Amazon for Summer Internship 2015. Most of these interns are paid by the companies.

# Internships Abroad

Sr.No.	Name	Department/ School	Internship Place
1	Arbaaz Singh Sidhu	CSE	Dongguk University, Seoul, South Korea
2	Sahil Dabra	CSE	Aston University, Birmingham, UK
3	Gourav Bansal	CSE	Aston University, Birmingham, UK
4	Vishwash Batra	CSE	Aston University, Birmingham, UK
5	M Raquib Anjum	EE	Aston University, Birmingham, UK
6	Pulkit Gera	EE	University of Erlangen - Nuremberg, Germany
7	Tanmay Jain	EE	Aston University, Birmingham, UK
8	Siddhartha Agarwal	SMME	Aston University, Birmingham, UK
9	R Rohan Prasad	SMME	Ecole Centrale Paris University, France
10	Shah Yash Girish	SMME	Universitaet Duisburg, Essen, Germany
11	Sumanyu Maingi	SMME	Imperial College, London, UK

## Inter IIT Sports Meet

The 50<sup>th</sup> Inter IIT Sports Meet was held during December 12 -19, 2014 at IIT Bombay. About 2300 students represented 16 IITs in different sports like athletics, badminton, basketball, cricket, football, hockey, squash, table tennis, tennis, volleyball and weightlifting. Mr. Agrim Bansal (Sports Secretary, IIT Ropar) and Ms. Apoorva Rao led the IIT Ropar contingent of 90 students in the march past at the opening ceremony. 78 boys and 12 girls represented IIT Ropar in athletics, badminton, basketball, cricket, football, table tennis, tennis, volleyball and bodybuilding. In athletics, Ramraj Meena reached the finals of 800 m and semi-finals of 400m. Darshan Aware reached the semi-finals in 100 m.



## Independence Day

Independence day was celebrated at the institute with patriotic fervour. On the occasion of the Independence Day, Prof. M.K. Surappa, Director, IIT Ropar unfurled the flag and conveyed his greetings to all. This was followed by the singing of the National Anthem. As is customary on days of national importance, a Sadbhavana Daud was organized. Faculty, staff and students participated in this race for social harmony.

## Blood Donation Camp

A blood donation camp was organized on November 10, 2014 by the NSS/Blood Connect Unit of the Indian Institute of Technology Ropar, as a part of a one day NSS Camp. Blood donation camp is being carried out every year and it is one of the most important social activities carried out by the NSS/Blood Connect unit of IIT Ropar. This year 68 units of blood was donated by the students, staff and the faculty members of IIT Ropar.



## Diwali

The festival of lights, Diwali, was celebrated at the institute with full rigour and enthusiasm. The entire institute was decorated with lights. Inter-hostel Rangoli competitions were organized in which all students took part enthusiastically. Finally, students got together and enjoyed evening fireworks.

## Research Seminars @ IIT Ropar

### Department of Mathematics

- 1) Dr. Hideo Takioka, Osaka City University, Japan: "On the arc index of a knot" on October 28, 2014.
- 2) Dr. Kengo Kawamura, Osaka City University, Japan: "On knots and the clasp number" on October 28, 2014.
- 3) Dr. Vinay Kanwar, Department of Mathematics, Panjab University, Chandigarh: "Geometrically constructed iterative methods for the solution of nonlinear equations" on September 30, 2014.
- 4) Prof. Akio Kawachi, Osaka City University, Advanced Mathematical Institute, Japan: "Unknotting notions for spatial graphs" on October 27, 2014.
- 5) Prof. Savita Bhatnagar, Department of Mathematics, Panjab University, Chandigarh: "Multipliers of Semigroup Algebras with Order Convolution." on September 26, 2014.
- 6) Prof. Seiichi Kamada, Osaka City University, Japan: "Braid group: A graphical method of transforming braid words" on October 30, 2014.
- 7) Prof. Sudeshna Banerjee, Department of Mathematics, Jadavpur University, Kolkata: "Theory of Water waves and Application of Singular Integral Equations" on December 8, 2014.
- 8) Prof. Sudeshna Sinha, Department of Physics, IISER Mohali, Punjab: "Dynamics of Rewired Networks" on August 29, 2014.
- 9) Prof. Valeriy Bardakov, Sobolev Institute of Mathematics, Novosibirsk, Russia: "Knot invariants; From colorings to groups" on November 7, 2014.

### Department of Humanities and Social Sciences

- 1) Dr. Vivekananda Mukherjee, Jadavpur University, Kolkata: "Trade Liberalization and Corruption" on July 21, 2014.
- 2) Prof. Pushpinder Syal, Panjab University, Chandigarh: "Sign and Image in Communication" on November 28, 2014

### Department of Physics

- 1) Dr. Ajay Soni, IIT Mandi: "For Scientific Discussion" on July 15, 2014.
- 2) Dr. Haruo Okhuma, Spring 8 Japan: "Seminar on accelerator technologist" on December 19, 2014.
- 3) Prof. Deshdeep Sahdev, IIT Kanpur: "Resolving the Properties of Solids down to Single Atoms in our Own Backyards" on October 17, 2014.
- 4) Prof. Habil Hans-Juergen Wollersheim, Gesellschaft fur Schwerionenforschung (GSI), Darmstadt, Germany: "Heavy Ion Research at GSI Helmholtz Centre and the new international FAIR accelerator facility (Towards the missing information about the evolution of the Universe)" on October 20, 2014.

- 5) Prof. G. Rajaekaran, Institute of Mathematical Sciences, Chennai: “Standard Model, Higgs Boson, and What Next” on August 29, 2014.

## Session Chaired/Invited Lectures

### Department of Chemistry

#### Dr. C.N. Tharamani

- 1) “Nitrogen containing carbon material based catalyst for low temperature fuel cells”, International Conference on Electrochemical Science and Technology (ICONEST)- 2014, organized by Electrochemical Society of India, IISc Bangalore, India August 7-9, 2014

#### Dr. C.M Nagaraja

- 1) “Construction of Interpenetrating Metal-Organic Frameworks (MOFs)”, Chemical Frontiers-2014” Organised at Indian Institute of Technology Bombay and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, at Majorda Resort, Goa, August 17, 2014.

#### Dr. Yashveer Singh

- 1) “PEG-based hydrogels for vaginal microbicide delivery”, Second International Conference on Nanostructured Materials and Nanocomposites, Mahatma Gandhi University, Kottayam, Kerala, December 19-21, 2014.

### Department of Computer Science & Engineering

#### Dr. Deepti R Bathula

- 1) “An Introduction to the exciting field of Neuro-imaging”, Thapar University, October 2014.

#### Dr. S. R. Sudarshan Iyengar

- 1) “Soul-searching Researching”, TEQIP-II Workshop, Punjab Engineering College, Chandigarh, November 2014.
- 2) “Reservations: A Graph Theoretic Perspective”, National Conference on Graph Theory, PPC, Udupi, Karnataka, January 3, 2015.
- 3) “Understanding Crowd sourced Knowledge Building”, Research Seminar, Game theory and networks, Dibrugarh University, December 10, 2014.
- 4) “The Next Age Textbook Technology”, Centre for Innovation in Public Systems (CIPS), Hyderabad, November 29, 2014.
- 5) “Crowd sourced Knowledge Building”, Thapar University, Patiala, November 19, 2014.

### Department of Electrical Engineering

#### Dr. Rohit Y. Sharma

- 1) “GNR interconnects for post-CMOS applications”, NIT Hamirpur, August, 2014

### Department of Humanities and Social Sciences

#### Dr. Prema Rajagopalan

- 1) “Social Exclusion of Women in Science”, IIIT Allahabad, November 28, 2014.
- 2) “Maximising the Potential of Underutilized Fruits in Knowledge economy –Case of Watermelon in India”, Mahatma Gandhi Kashi Vidyapeeth, Varanasi, November 29, 2014.

#### Dr. Somdev Kar

- 1) “Optimality Theory: A theory of variation rather than a theory of universal’s”, Indian Statistical Institute, Kolkata, December 23, 2014.
- 2) Chaired a session at the 36<sup>th</sup> International Conference of Linguistic Society of India (ICOLSI-36), University of Kerala, Thiruvananthapuram, December 1-4, 2014.

## Department of Mathematics

### Dr. Arvind Kumar Gupta

- 1) Chaired a session in the International Congress of Mathematicians (ICM 2014) held at Seoul, South Korea, during August 12 - 21, 2014.
- 2) “An introduction to fuzzy sets and numbers”, National Workshop on Research Tools in Mathematics, Mata Gujri College, Fatehgarh Sahib, December 22, 2014.
- 3) “Computational Partial differential equation with Matlab”, National Workshop on Research Tools in Mathematics, Mata Gujri College, Fatehgarh Sahib, December 20, 2014.
- 4) “Modeling of Stochastic Transport Processes: Vertical Cluster Mean Field Approach for Two-Channel TASEP”, Ramakrishna Mission Vivekananda University, Belur Math, Howrah, Kolkata, November 8, 2014.

### Dr. G. Sankara Raju

- 1) “Recent Advances in Operator Theory and Operator Algebras”, Indian Statistical Institute, Bangalore, December 9 - 19, 2014.

### Dr. Manoranjan Mishra

- 1) “Transient Growth of perturbations in miscible viscous fingering”, ESPCI, Paris Tech, France, December 18, 2014.
- 2) “Chromatography - A Fluid Dynamic View”, UGC Academic Staff College, University of Hyderabad, Hyderabad, September 8, 2014.
- 3) “Effects of solvent strength and non-linear adsorption on miscible viscous fingering in a porous media”, Universite Libre de Bruxelles, Brussels, Belgium, December 4, 2014.

### Dr. M. Prabhakar

- 1) Participated and delivered a talk at ICM 2014 held at Seoul, South Korea during 12 - 21 August, 2014.

### Dr. Manju Khan

- 2) Delivered a talk at ICM 2014 held at Seoul, South Korea, August 12 – 21, 2014.

### Dr. S. C. Martha

- 1) Chaired a session in the Conference on Partial Differential Equations held at LNMIIT, Jaipur during December 10-11, 2014.
- 2) “Boundary Value Problems Arising in Multi-Layered Fluid”, National Seminar on Advances in Mathematical Analysis and its Applications, National Institute of Science & Technology, Berhampur; December 19-20, 2014
- 3) “Boundary Value Problems involving Fluid Flow in a Channel”, The conference on Partial Differential Equations held at LNMIIT, Jaipur, December 10 - 11, 2014.
- 4) Delivered a talk at ICM 2014 held at Seoul, South Korea, August 12 - 21, 2014.

## School of Mechanical, Materials & Energy Engineering

### Dr. Dhiraj Kumar Mahajan

- 1) “Crystal Plasticity based Modeling of Fatigue Behavior of Metals under Hydrogen Environment”, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, August 21, 2014.

### Dr. Prabir Sarkar

- 1) Panel member, “Need of product design course in undergraduate study” International symposium on product design, Chandigarh University, July 16, 2014.
- 2) Keynote speaker, “Creative problem solving techniques in product design” International workshop on creative product design, Chandigarh University, July 15, 2014

## Department of Physics

### Dr. Pushendra P. Singh

- 1) “Low energy incomplete fusion”, International Conference on Dark Matter, Hadron Physics and Fusion Physics, Messina, Italy, September 24-26, 2014.



- 2) “Unexpected Onset of Incomplete Fusion at Near Barrier Energies”, International Workshop of Laser Compton Scattering Gamma Rays at Electron Storage Rings, University of Saskatchewan and Canadian Light Source, Saskatoon, Canada, November 7-11, 2014.
- 3) “Reconciliation of the famous Mass asymmetry systematics for low energy incomplete fusion”, NUBA Conference on Nuclear Physics and Astrophysics, Antalya, Turkey, September 15-21, 2014.

#### **Dr. Rakesh Kumar**

- 1) “TU9-IIT Mandi Emerging Semiconductor Technologies”, IIT Mandi, September 26-27, 2014.
- 2) “International conferences on Nanostructures and Nano materials”, Kottayam, Kerala, December 19-21, 2014.
- 3) “Indo-US Graphene workshop”, IISc. Bangalore, December 22-24, 2014.

#### **Library**

##### **Tarvinder Singh Handa**

- 1) “Implementing Information Literacy in LIS Education”, XXX IATLIS National Conference on the Theme of “Re-inventing LIS Education in the Internet Era”, Central University of Himachal Pradesh, Dharmasala, HP.

## **Visits Abroad**

- 1) **Dr. Manoranjan Mishra** was invited as a visiting professor at Physique et Mécanique des Milieux Hétérogènes (PMMH), ESPCI, Paris Tech, France, 24th November - 23rd December 2014.
- 2) **Dr. M. Prabhakar**, visited Novosibirsk, Russia as a part of India-Russia research collaboration project, July 21-31, 2014.
- 3) **Dr. Pushendra P. Singh**, visited GSI Helmholtz Centre for Heavy Ion Research GmbH, Darmstadt Germany for the ongoing NuSTAR collaboration towards the development of upcoming facility for Anti-Proton and Ion Research (FAIR), December 22, 2014 to January 12, 2015.
- 4) **Dr. Rajesh V Nair**, International Commission on Optics meeting in Spain, August 2014.
- 5) **Dr. Somdev Kar**, attended XV UNL School (workshop) organized by the UNDL Foundation in Geneva, Switzerland during July 21-25, 2014.
- 6) **Dr. Dinesh K.S.**, visited Birmingham public Library, UK on August 13, 2014; Oxford Bodleian Libraries, U.K. on August 5, 2014 and Imperial College London on July 23, 2014 as part of Commonwealth Professional Fellowship - 2014.

## **Awards /Distinction**

- 1) **Dr. D .K. Mahajan**, SMME has been awarded the Best Poster Award in DAE-BRNS Symposium on Multiscale Modeling of Materials and Devices held at Bhabha Atomic Research Center (BARC), Mumbai from October 30 - November 2, 2014.
- 2) **Dr. Mukesh Kumar**, Department of Physics has been awarded Bhaskara Advanced Solar Energy (BASE) Fellowship from Department of Science and Technology and Indo-US Science and Technology Forum (IUSSTF). He has visited Advanced Centre for Photovoltaics, South Dakota State University, U.S.A.
- 3) **Dr. Rajesh V. Nair** has been nominated to Grant Application Committee of Optical Society of America (OSA).
- 4) **Dr. T. J. D. Kumar** received the Best Poster Award in the DAE-BRNS symposium on Multiscale Modeling of Materials and Devices (MMMD - 2014) held in BARC, Mumbai from October 30 - November 2, 2014.
- 5) **Dr. Rohit Y. Sharma**, received the Best Poster Award for the paper titled “Some investigations on MLG NRs for post-CMOS applications” at the IEEE CAS student poster session, IIT Roorkee, October 2014.
- 6) **Harpreet Kaur**, has been awarded the Best Paper in the Seminar on “Relevance of Ranganathan’s Five Laws in Digital Library”, National Seminar on Relevance of Ranganathan’s Philosophy in Digital Era, The Chandigarh Librarian’s Association (CLA) on National Library Day, DAV College, Chandigarh on August 12, 2014.

## Workshops & Short Term Courses

- 1) First "ARDUINO" Workshop held at IIT Ropar, Organizers: **Dr. Pushendra P. Singh, Dr. Ekta Singla, Prof. J. S. Sahambi**, and Robotics Club on December 01, 2014.
- 2) **Dr. M. Prabhakar**, organized an international workshop on "Knots, Braids and Topology" in collaboration with IISER Mohali on October 24-26, 2014
- 3) **The Department of HSS** is offering a French Language Course to the Students, Faculty and Staff of the IIT Ropar. A native French tutor, Mr. Steven Moulin, is teaching the course in collaboration with the embassy of France.

## Sponsored R&D Projects/Consultancy

- 1) **Dr. Mukesh Kumar** (PI) and **Dr. R. V. Nair** (Co-PI): "Studies on the growth kinetics of earth abundant Cu-Zn-Sn-S solar cell material and enhancing the device efficiency through photon management", Solar Energy Research Initiative, Department of Science and Technology, 2014, Rs.50 Lakhs.
- 2) **Dr. Partha Sharathi Dutta** (P.I.) (Indian side): "Non-equilibrium Dynamics and Predictability of Plankton Communities in a Seasonal Environment", Indo-German joint research project, Department of Science & Technology, Govt. of India and the German Academic Exchange Service, Germany, Rs.6.80 Lakhs.
- 3) **Dr. T. J. Dhilip Kumar** (PI): "A first-principles study of metal grafted Calix [n] arenes as hydrogen storage material", EMR Grant - CSIR, New Delhi, Oct 2014-September 2017, Rs.5.0 lakhs.
- 4) **Dr. Ravi Shankar R. Velampati** (PI) : "Study of Thin Films for Advanced Semiconductor Devices", November 1, 2014, ORBITech. Sol. Pvt. Ltd.

## Research Publications

### Books

#### Department of Electrical Engineering

- 1) **Sharma, R.** and Krzysztof Iniewski (Eds.), "Design of 3D Integrated Circuits and Systems," CRC Press, 2014.

### Book Chapters

#### Department of Electrical Engineering

- 1) **Sharma, R.** and Kiyong Choi, "Emerging Interconnect Technologies for 3D Networks-on-Chip," in *Design of 3D Integrated Circuits and Systems*, Rohit Sharma and Krzysztof Iniewski (Eds.), CRC Press, 2014.

### Journals

#### Department of Chemistry

- 1) **Goswami, A.**, Chatterjee, N., Chowdhury, H. and Kumar, S. "Hydroxylation of aryl - and alkylboronic acids/esters mediated by iodobenzene diacetate—an avenue for using organoboronic acids/esters as nucleophiles for hydroxylation reactions", *Tetrahedron Letters*, 56(2015)172-174.
- 2) Ugale, B. and **Nagaraja, C.M.** "Synthesis, Structure and Luminescence Property of a 3D diamondoid Interpenetrated Zn(II)-organic Framework", *J. Inorg. Organomet Polym and Materials*, 24 (2014) 1032.
- 3) Singh, D. and **Nagaraja, C.M.** "Luminescent 3D Interpenetrating Metal-Organic Framework for Highly Selective Sensing of Nitrobenzene", *Dalton Trans*, 43 (2014) 17912.
- 4) Davidson, J.J., **Nagaraja, C.M.**, C.H. Chen, Foxman, B. M. and Ozerov, O. V. "Palladium complexes of a new phosphine-amido-siloxide pincer ligand with variable degrees of protonation", *Inorg. Chim. Acta*, 422 (2014) 70.
- 5) Goyal, K., Koul, V., **Singh, Y.** and Anand, A. "Targeted drug delivery to central nervous system (CNS) for the treatment of neurodegenerative disorders: trends and advances", *Central Nervous System Agents in Medicinal Chemistry*, 14(2014) 43-59.
- 6) Rajan, S.S., Turovskiy, Y., **Singh, Y.**, Chikindas, M. L. and Sinko, P. J. "Poly(ethylene glycol) (PEG)-lactic acid nanocarrier-based degradable hydrogels for restoring the vaginal microenvironment", *Journal of Controlled Release*, 194(2014) 301-309.

- 7) Kaur, B. and **Srivastava, R.** "Selective, nano molar electrochemical determination of environmental contaminants dihydroxybenzene isomers found in water bodies using nano crystalline zeolite modified carbon paste electrodes", *Electro analysis*, 26 (2014) 1739-1750.
- 8) Kaur, B. and **Srivastava, R.** "Simultaneous electrochemical determination of nanomolar concentrations of aminophenol isomers using nanocrystalline zirconosilicate modified carbon paste electrode", *Electrochimica Acta*, 141(2014) 61-71.
- 9) Kaur, B. and **Srivastava, R.** "Synthesis of ionic liquids coated nano crystalline zeolite materials and their application in the simultaneous determination of adenine, cytosine, guanine, and thymine", *Electrochimica Acta*, 133 (2014) 428-439.
- 10) Rani, P. and **Srivastava, R.** "Cu(I) metal organic framework catalyzed C-C and C-N coupling reactions", *Tetrahedron Letters*, 55 (2014) 5256-5260.
- 11) Kore, R., **Srivastava, R.** and Satpati, B. "ZSM-5 zeolite nanosheets with remarkably improved catalytic activity synthesized using a new class of structure directing agents", *Chemistry - A European Journal*, 36 (2014) 11511-11521.
- 12) Samolia, M. and **Kumar, T. J. D.** "A conceptual DFT study of the hydrogen trapping efficiency in metal functionalized BN system.", *RSC Adv.*, 4 (2014).30758 – 30767.

### Department of Electrical Engineering

1. **Sharma, R.** et al. "Airgap Interconnects: Modeling, Optimization and Benchmarking for Backplane, PCB and Interposer Applications", *IEEE Transactions on Components, Packaging and Manufacturing Technologies*, 4.8 (2014)1335-1346.

### Department of Mathematics

- 1) **Chatterjee, T.** and Gun, S. " On the zeros of Generalized Hurwitz zeta functions", *J. Number Theory*, 145 (2014) 352-361.
- 2) **Dutta, P.S.**, Kooi, B.W. and Feudel, U. " Multiple Resource Limitation: Non-equilibrium Coexistence of Species in a Competition Model using a Synthesizing Unit", *Theoretical Ecology, Springer*, 7 (2014)407-421.
- 3) Panda, S., Singla, R. K and **Martha, S.C.** "Identification of design parameters in a solar collector using inverse heat transfer analysis", *Energy Conversion and Management*, 88(2014)27-39.
- 4) Blackbeard, N., Wieczorek, S., Erzgraber, H. and **Dutta, P. S.** " From Synchronisation to Persistent Optical Turbulence in Laser Arrays", *Physica D, Elsevier*, 286-287 (2014) 43-58.
- 5) **Gupta, A.K.**, Sharma, S. and Redhu, P. "Analyses of lattice traffic flow model on a gradient highway", *Communication Theoretical Physics*, 62 (2014) 393-404.
- 6) **Gupta, A.K.** and Redhu, P. "The effect of driver's anticipation with passing in a new lattice hydrodynamic traffic flow model", *Nonlinear Dynamics*, 76 (2014) 1001 -1011.
- 7) Dhiman, I. and **Gupta, A.K.** " Effect of coupling strength on a two-lane partially asymmetric coupled TASEP with Langmuir Kinetics.", *Physical Review E*, 90(2014) 012114.
- 8) Dhiman, I. and **Gupta, A.K.** "Two-channel totally asymmetric simple exclusion process with Langmuir kinetics: The role of coupling constant", *Euro Physics Letters*, 107 (2) (2014)20007.
- 9) Redhu, P. and **Gupta, A.K.** "Phase transition in a two-dimensional triangular flow with consideration of optimal current difference", *Nonlinear Dynamic*, 78 (2014) 393.
- 10) Choudhary, A. and **Martha, S.C.** "Propagation of water waves in the presence of thin vertical barrier on the bottom undulation", *Springer Proceedings in Mathematics and Statistics*, 91(2014) 1-11.
- 11) Panda, S. and **Martha, S.C.** "Oblique Wave Scattering by Undulating Porous Bottom in a two-layer Fluid: Fourier transform approach", *Geophysical and Astrophysical Fluid Dynamics*, 108 (6) (2014) 587-614.
- 12) Rana, C. and **Mishra, M.** "Fingering dynamics on the adsorbed solute with influence of less viscous and strong sample solvent", *J. Chem. Phys.*, 141(2014)214701.
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- 14) Rana, C., Wit, A.De., Martin, M. and **Mishra, M.** "Combined influences of viscous fingering and solvent effect on the distribution of adsorbed solutes in porous media", *RSC Advances*, 4 (2014) 34369-34381.

- 15) Ganguly, S., Sarkar, S., Hota, T. and **Mishra, M.** “Thermally developing combined electroosmotic and pressure-driven flow of nanofluids in a micro-channel under the effect of magnetic field”, *Chem. Eng. Sci.*, 126 (2014) 10-21.

## School of Mechanical, Materials and Energy Engineering

- 1) Bhowmik, A., **Repaka R.** and Mishra, S.C. “Thermographic evaluation of early melanoma within the vascularized skin using combined non-Newtonian blood flow and bio-heat models”, *Computers in Biology and Medicine*, 53 (2014) 206-219.
- 2) **Sarkar, P.**, Sharma, B., and Malik, U. “Energy generation from grey water in high raised buildings: the case of India”, *Renewable Energy*, Elsevier, 69, September (2014) 284–289.
- 3) Kumar, M., **Singh, H.** and Singh, N. “Fire Side Erosion-corrosion Protection of Boiler Tubes by Nano-structured Coatings”, *Material and Corrosion*, (2014) 07954
- 4) Khullar, V., **Tyagi, H.**, Hordy, N., Otanicar, T., Hewakuruppu, Y., Modi, P., and Taylor, R.A., “Harvesting solar thermal energy through nanofluid-based volumetric absorption systems”, *International Journal of Heat and Mass Transfer*, 77 (2014) 377-384.
- 5) Soni, S., **Tyagi, H.**, Taylor, R. A., and Kumar, A. "Investigation on nanoparticle distribution for thermal ablation of a tumour subjected to nano particle assisted thermal therapy ", *Journal of Thermal Biology*, 43(2014)70-80.

## Department of Physics

- 1) Kumar, P. and **Dasgupta, S.** “Sharply tunable group velocity in alkali vapors using a single low-power control field”, *J. Phys. B: At. Mol. Opt. Phys.*, 47 175501 (2014).
- 2) FitzGerald, W.R., **Jena, K.C.**, Hore, D.K. “Effects of single-source multiple beam interference in vibrational sum frequency generation spectroscopy”, *Journal of Molecular Structure*, 1084 (2015) 368-373.
- 3) Smolentsev, N., Chen, Y., **Jena, K.C.**, Matthew, A. Brown and Roke, S. “Sum frequency and second harmonic generation from the surface of a liquid microjet”, *J. Chem. Phys.*, 141 18C524 (2014).
- 4) Scheu, R., Rankin, B.M., Chen, Y., **Jena, K.C.**, Amotz, D.B. and Roke, S. “Charge Asymmetry at Aqueous Hydrophobic Interfaces and Hydration-Shells”, *Angew. Chem. Int. Ed.*, 52, 9560 (2014) (Hot Paper).
- 5) Diercks, D.R., Musselman, M., Morgenstern, A., Wilson, T., **Kumar, M.**, Smith, K., Kawase, M., Gorman, B.P., Eberhart, M., and Packard, E.C. “Evidence for Anisotropic Mechanical Behavior and Nanoscale Chemical Heterogeneity in Cycled  $\text{LiCoO}_2$ ”, *Journal of The Electrochemical Society*, 161, F3039 (2014).

# Conference Proceedings/Papers Presented

## Department of Chemistry

1. Kaur, R. and **Kumar, T.J.D.** “Quantum dynamics study of proton collision with CS using time dependent wave packet method”, *Theoretical Chemistry Symposium* held in NCL, Pune during Dec 18-21, 2014.
2. Samolia, M. and **Kumar, T.J.D.** “Hydrogen Storage Efficiency of Titanium and Lithium Functionalized Mg-BN-Framework” *Gordon Research Conference-2014* held at The Chinese University of Hong Kong, in Hong Kong during July 26-August 1, 2014.
3. Samolia, M. and **Kumar, T.J.D.** “Hydrogen Trapping Potential of Titanium Functionalized Mg-BN-Framework” 248<sup>th</sup> *ACS Meeting & Exposition-2014* held at San Francisco, USA, August 10-14, 2014.
4. Samolia, M. and **Kumar, T. J. D.** “Metal decorated BN linker in MOF as storage material”, *DAE-BRNS symposium on Multiscale Modeling of Materials and Devices (MMMD - 2014)* held in BARC, Mumbai during October 30 - November 2, 2014.
5. Samolia, M. and **Kumar, T. J. D.** “Molecular dynamics of hydrogen storage in MOF with metal decorated BN linker”, *Theoretical Chemistry Symposium-2014* held in NCL, Pune during Dec 18-21, 2014.
6. Singh, D. and **Nagaraja, C.M.** “Structural diversity and luminescent properties of metal-organic frameworks of Zn(II)/Cd(II) ions constructed from rigid dicarboxylate ligand and dipyrindyl spacers”, *International Conference on Structural Chemistry of Molecules and Materials*, University of Calcutta during November 30 – December 2, 2014.

7. Ugale, B. and **Nagaraja, C.M.** “Design and Synthesis of Chiral Metal-Organic Frameworks”, International Conference on Structural Chemistry of Molecules and Materials, University of Calcutta during November 30 – December 2, 2014.

### **Department of Electrical Engineering**

- 1) Kumar, S., Kaur, S. and **Sharma, R.** “A High-k, Metal Gate Vertical-Slit FET for Ultra-Low Power and High-Speed Applications” IEEE International Conference on Emerging Electronics 2014
- 2) **Sharma, R.** et al. “Design Space Exploration of Through Silicon Vias for High-Speed, Ultra-Low Loss Vertical Links” IEEE Electrical Design of Advanced Packaging and Systems (EDAPS) Symposium 2014.
- 3) **Sharma, R.** et. al. “Analytical Model for Inverter Design using Floating Gate Graphene Field Effect Transistors” Proceedings of the IEEE Computer Society Annual Symposium on VLSI, pp. 148-153, Tampa, USA, July 2014.

### **Department of Humanities and Social Sciences**

- 1) Kumar, N. and **Kar, S.** (2014). “Vowel Epenthesis in Maithili” 36<sup>th</sup> International Conference of Linguistic Society of India (ICOLSI-36), University of Kerala, Thiruvananthapuram during December 1-4, 2014.

### **Department of Mathematics**

- 1) Choudhary, A. and **Martha, S.C.** “Scattering of water waves by irregular bottom in the presence of thin vertical permeable barrier” 59<sup>th</sup> Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM), Alliance College of Engineering and Design, Alliance University, Bangalore, India, December 17-20, 2014.
- 2) Panda, S and **Martha, S.C.** “Transformation of water-wave energy in two-layer ocean in the presence of surface tension”, IEEE Conference Proceedings of 2014 Recent Advances in Engineering and Computational Sciences, RAECs(2014) Article Number 6799504, 6 pages
- 3) Hota, T. and **Mishra, M.**, “A Non modal Linear Stability Analysis in Miscible Viscous Fingering Phenomenon, IUTAM Symposium on Multiphase flows with phase change: challenges and opportunities” Hyderabad, India, December 08 - 11, 2014.
- 4) Rana, C. and **Mishra, M.** “Effect of strong sample solvent on the solute dynamics for more or less viscous sample, IUTAM Symposium on Multiphase flows with phase change: challenges and opportunities” Hyderabad, India, December 08 - 11, 2014.

### **School of Mechanical, Materials & Energy Engineering**

- 1) Dhage, S. B., Jayal, A. D. and **Sarkar, P.**, 2014. “Investigation of surface textured cutting tools for sustainable machining” 5<sup>th</sup> International and 26<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Guwahati, December 12-14, 2014.
- 2) Goindi, G. S., Chavan, S. N., Jayal, A. D., Mandal, D. and **Sarkar, P.** 2014. “Investigation of ionic liquids as metalworking fluids in minimum quantity lubrication machining of AISI 1045 steel” 5<sup>th</sup> International and 26<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Guwahati, , December 12-14, 2014.
- 3) Goindi, G. S, Chavan, S.N., **Mandal, D. Sarkar, P. and Jayal, A. D.**, 2014. “Investigation of ionic liquids as novel metalworking fluids during minimum quantity lubrication machining of plain carbon steel” 12<sup>th</sup> Global Conference on Sustainable Manufacturing, Johor Bahru, Malaysia, September 22 – 24, 2014.
- 4) Gupta, S., **Sarkar, P.**, and **Singla, E.** 2014. “Understanding Various Stakeholders of Sustainable Product and Service Based Systems for Sustainable Manufacturing using GA” 5<sup>th</sup> International and 26<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), Guwahati, December 12-14, 2014.
- 5) Joshi, R.S. and **Singh, H.** (2014) “Experimental investigations of surface texture in conventional and modulation assisted drilling of stainless steel 316” All India Machine Tool Design and Research Conference (AIMTDR 2014) held at Department of Mechanical Engineering of IIT Guwahati, India, December 12-14, 2014.
- 6) Joshi, R.S., **Singh, H.** and Singh, I. (2014) "Experimental investigations of thrust force and delamination in conventional and modulation assisted drilling of glass fibre reinforced plastics" 23<sup>rd</sup> International Conference on Processing and Fabrication of Advanced Materials (PFAM 2014) held at Mechanical and Industrial Engineering Department of IIT Roorkee, India, December 4-6.

- 7) Kumar, M., **Singh, H.**, Singh, N., Joshi, S.V., Chavan, N. M. and Kumar, S. (2014) "Development of Erosion-corrosion Resistant Cold-spray Nanostructured Ni-20Cr Coating for Coal Fired Boiler Applications" Poster Presented in Asian Thermal Spray Conference (ATSC-2014) held at Hyderabad, India from November 24-26, 2014.
- 8) **Mahajan, D.K.** "Crystal Plasticity based Modeling of Fatigue Behaviour of Metals under Hydrogen Environment" Proceeding of MMMD-2014, BARC, Mumbai (2014) 103.
- 9) Phelan, P. E., Abdelaziz, O., Otanicar, T., Phelan, B. E., Prasher, R. S., Taylor, R. A., and **Tyagi, H.** "The Impact of Thermal Engineering Research on Global Climate Change" Paper No. IHTC15-8895, 15<sup>th</sup> International Heat Transfer Conference (IHTC-15), Kyoto, Japan, August 10-15, 2014.

## Department of Physics

- 1) Yadav, A., Sharma, V. R., Singh, D. P., **Singh, P.P.**, Bala, I., Kumar, R., Unnati, Sharma, M. K, Muralithar, S., Singh, R. P., Singh, B. P. and Prasad, R. "Observation of incomplete fusion reactions above  $\ell$ crit" AIP Conference Proceedings 1609 (2014) 20.
- 2) Yadav, A., Sharma, V. R, **Singh, P.P.** , Bala, I., Kumar, P., Raghav, A .,Md. Shuaib, Abhay V. Agrawal, Singh, D. P., Gupta, S., Gupta, U., Sharma, M. K., Kumar, R., Muralithar, S., Singh, R. P. , Singh, B. P. and Prasad, R. "Dependency of low energy incomplete fusion reactions on entrance channel parameters: still a puzzle?" DAE-BRNS Nucl. Phys. Symp. 59 (2014) 590.
- 3) Singh, D. P., Raghav, A .,M. Shuaib, Kumar, P, Yadav, A., **Singh, P.P.**, Unnati, Sharma, M. K., Sharma, V. R., Singh, B. P. and Prasad, R. "Heavy ion induced nuclear reactions: cross-section measurements and its applicability in thin layer activation analysis" 476 DAE-BRNS Nucl. Phys. Symp. 59 (2014) 476.
- 4) Deepika, Raj, K. R, **Kumar, T. J. D.**, and Kumar, R. "Sequential Desorption Energy of Hydrogen from Nickel Clusters" AIP conference Proceedings, 2014.
- 5) Kumar, P., Sharma, V. R., Raghav, A., Shuaib Md., Agrawal, A. V., Yadav, A., Singh, D.P., **Singh, P. P.**, Gupta, S., Sharma, M.K., Bala, I., Kumar, R., Murlithar, S., M. M. Mbaye, Singh, B. P. ,R. Prasad "Inclusive study of low energy complete and incomplete Fusion-Fission" DAE-BRNS Nucl. Phys. Symp. 59, (2014) 544.
- 6) Sharma, V. R., Yadav, A., **Singh, P.P.**, Bala, I., Singh, D.P., Gupta, S., Sharma, M.K., Kumar, R., Singh, R.P., Murlithar, S., Singh, B.P., Bhowmik, R.K. and Prasad, R. " Localization of  $\ell$  window at low energy incomplete fusion: A case of O+Tb" DAE-BRNS Nucl. Phys. Symp. 59, (2014) 354.

## Library

- 1) **Kaur, H.**, participated and presented a paper on "Relevance of Ranganathan's Five Laws in Digital Library" The Chandigarh Librarian's Association (CLA) on National Library Day, DAV College, Chandigarh on August 12, 2014.

## Engagements of the Director

1. Chief Guest for the Inauguration of 2<sup>nd</sup> International Conference on Current Trends in Engineering & Management (ICCTEM)-2014, Vidhyavardhaka College of Engineering, Mysore, July 17, 2014.
2. Graduation Day-2014 Address, S. J. C. Institute of Technology, Chickballapur, September 20, 2014.
3. Participated in the MS&T 2014 Conference at Pittsburg, PA, USA & also visited Missouri University of Science and Technology, Rolla, USA, and University of North Carolina, NC for research collaboration from October 12-16, 2014.
4. Chief Guest for the Opening Ceremony of Regional Science Congress-2014, Jawahar Navodaya Vidhyalaya, Sector-25, Chandigarh, November 10, 2014.

## New Faculty Recruits (July-December 2014)



**Dr. Subrahmanyam Murala**  
Assistant Professor  
Electrical Engineering



**Dr. Ravi Shankar Reddy V.**  
Assistant Professor  
Electrical Engineering



**Dr. Narayanan C. Krishnan**  
Assistant Professor  
Computer Science & Engineering



**Mr. Steven Moulin**  
French Tutor  
Humanities & Social Sciences



**Prof. Avtar Singh**  
Visiting Professor  
Electrical Engineering



**Prof. Gurvinder Singh Virk**  
Visiting Professor  
SMEE

## New Staff Recruits (July-December 2014)



**Dr. Abi Manue Sharma**  
Medical Officer  
Medical Center



**Mr. Sarabjeet Singh**  
Jr Attendant (Semi-skilled)  
Office of the Dean (A&R)



**Mr. Jitender Kumar Sayal**  
Jr. Attendant (Semi-skilled)  
Director's Office



**Mr. Jaspreet Singh**  
Jr. Attendant (Semi-skilled)  
Electrical Engineering



**Mr. Sahil Kapoor**  
Jr. Attendant (Semi-skilled)  
Physics



## Obituary

The Institute deeply regrets the sad demise of **Dr. (Mrs.) Rajyashree Khushu Lahiri**, HOD, Department of Humanities and Social Sciences who expired in a road accident on August 3, 2014.

# Academic Calendar for 2nd Semester 2014-15 (for UG & PhD)

#	Academic Events	Second Semester 2014-15
1	Orientation and registration of new PhD students	Jan 05 (Mon)
2	Registration of continuing students	Jan 05 (Mon)
3	Commencement of classes	Jan 06 (Tue)
4	Late registration	Jan 12 (Mon)
5	Last date for course ADD / DROP	Jan 14 (Wed)
6	Last date for adding courses (in lieu of dropped courses)	Jan 16 (Fri)
7	Last date for getting mid semester course evaluation form filled	Feb 17 (Tue)
8	Last date for departments to float courses for next semester	Feb 20 (Fri)
9	Mid Semester Examination	Feb 23 (Mon) – Feb 28 (Sat)
10	Midterm evaluation project for UG (No Classes)	Mar 02 (Mon)
11	Last date for return of marked answer-scripts	Mar 10 (Tue)
12	Short-attendance warning to students by departments	Mar 13 (Fri)
13	Class committee meeting	Mar 13 (Fri)
14	Last date for Audit and Withdrawal	Mar 16 (Mon)
15	Course registration for next semester	Mar 30 (Mon) – Apr 07 (Tue)
16	Meeting of timetable incharges for courses of next semester	Apr 08 (Wed)
17	Last date for getting course evaluation form filled	Apr 22 (Wed)
18	Last date for submission of preliminary project reports for UG students	Apr 28 (Tue)
19	Last day of classes	Apr 28 (Tue)
20	Display of Pre-Major Totals (PMT)	Apr 28 (Tue)
21	Display of list of students with short attendance	Apr 28 (Tue)
22	Major Examination	Apr 30 (Thu) – May 07 (Thu)
23	Project viva-voce for UG	May 08 (Fri)
24	Last date for submission of final project reports for UG students	May 15 (Fri)
25	Viewing of answer-scripts by the student	May 15 (Fri)
26	Last date for grades to reach to the Academics Section	May 18 (Mon)
27	List of courses for which grades not received to HoDs	May 19 (Tue)
28	Display of grades	May 19 (Tue)
29	Vacation (for UG only)	May 15 (Fri) – Jul 19 (Sun)
30	Last date for progress report submission (for PhD only)	Jun 30 (Tue)

## Team Prajwalam

**Mr. C.S. Sham Sundar**, Assistant Registrar

**Dr. Dinesh K. S.**, Deputy Librarian

**Dr. Rohit Y. Sharma**, Dept. of Electrical Engineering

**Ms. Harsimrat Kaur**, Publications Cell

**Dr. D. Mandal**, Dept. of Chemistry

**Dr. P. S. Dutta**, Dept. of Mathematics

**Dr. Somdev Kar**, Dept. of Humanities and Social Sciences

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