

Director's Message



Dear Friends,

Winter has arrived and the semester is coming to a close. Within this cool ambience there was a warm celebration during the 6th Convocation of IIT Ropar. For the first time the convocation was held in our new campus following the urge of the outgoing students. The enlightening address of the Chief Guest, Prof. Ashok Jhunjhunwala, in the convocation regarding the ways of learning for the

new generation of IITians where more is learned through off classroom experience, was a delight to hear. His call to the graduating students to develop into professionals and entrepreneurs of a new era was inspiring to all of them. Our new campus, the first phase of which is on the verge of completion during the next couple of months drew appreciation from graduants, parents and media alike.

During the month of October, an institute level delegation along with experts visited Canada, Germany and US to recruit faculty members, meet the Indian diaspora and forge research collaborations with institutions like Massachusetts Institute of Technology (MIT), SUNY Polytechnic Albany, Simon Fraser University (SFU), Technische Universität Darmstadt, Germany and Helmut Schmidt University, Hamburg. During this period our student strength grew to 1120 and faculty strength is touching 120. This year we have admitted students in newly formed Chemical Engineering department and we have started M. Tech. program in Power Systems, Computer Science and Biomedical Engineering.

IIT Ropar has always been strong in its research performance. Our faculty members received the following awards, Dr. Rajendra Srivastava, Associate Professor, Department of Chemistry, won Young Scientist Award from Catalysis Society of India (CSI-2017), Dr. Srivastava Naidu, Assistant Professor, CBME,

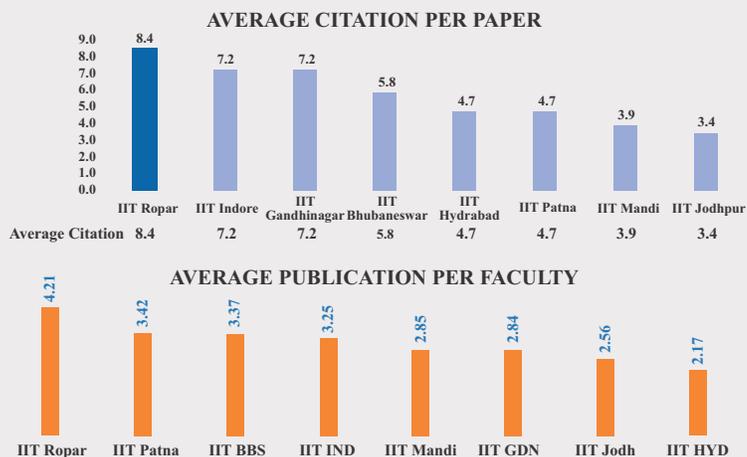
was selected for the DBT Ramalingaswami Re-entry Fellowship (2016-2017), and among our students, Mr. Navin Kumar, PhD scholar Department of Physics, secured the prestigious Bhaskara Advanced Solar energy (BASE) Internship and Mr. Gurvinder Pal Singh Sodhi, PhD scholar, Department of Mechanical Engineering, received the best presentation award in international conference on Innovative Engineering Materials held in Philadelphia, USA (2017). We have consistently maintained top position in citation per publications and publications per faculty among the new IITs.

Department of Electrical Engineering held international conference CATCON in which delegates from countries like UAE, South Africa, Australia, China, Japan and United Kingdom participated.

Probably one of the most significant achievements of this year was the adoption of the strategic plan of IIT Ropar based on Mission and Vision of the institute which was adopted earlier in the year. We are coming to the end of a satisfying year of 2017 in which the pace of our infrastructure creation has been at the top. According to a notification of MHRD, in percentage of the funds utilization IIT Ropar remained at the top among the IITs established in 2008 with 63% of the allocated funds for the infrastructure creation has been utilized. The year has also seen tremendous expansion in our capacity, human resources and research output.

I am sure that in 2018 we will widen our horizon further by moving to our new campus to touch our dream of becoming a world class institute.

Jai Hind,
Prof. Sarit K. Das



Convocation '17

The Indian Institute of Technology Ropar (IIT Ropar) celebrated its 6th Annual Convocation at its permanent campus. Prof. Ashok Jhunjhunwala, Principal Advisor to Minister of Power, New & Renewable Energy, Government of India, graced the occasion as the chief guest and delivered the convocation address. Prof. S.K. Das, Director, IIT Ropar, presided over the ceremony.

A total of 160 degrees were awarded this year. 118 B.Tech., 11 M.Tech., 18 M.Sc. and 13 PhD degrees were handed out to



The DBT Ramalingaswami Re-Entry Fellowship

Dr. Srivatsava Naidu, Assistant Professor, CBME, has been selected for the DBT Ramalingaswami Re-entry Fellowship (2016-2017).

Details about his research are in page no. 2



students. There was a 22 percent increase in the number of students graduating this year compared to last year.

Mr. Tushar Agarwal, Department of Computer Science & Engineering received President of India Gold Medal amongst the graduating students of B. Tech

this year. The Director's Gold Medal was awarded to Mr. Swapnil Rai, Department of Mechanical Engineering.

Institute Silver medals were given to Mr. Abhishek Kumar, B.Tech. Department of Electrical Engineering, Mr. Asheesh Kumar Sharma, M.Tech. Mechanical Engineering, Ms. Deeksha Suthar, M.Sc. in Chemistry, Mr. Mohit Sood, M.Sc. in Physics and Mr. Nihal Chand, M.Sc. in Mathematics.

Prof. S. K. Das addressed the students, mentioning the day as a 'Red Letter Day' in their life. He encouraged new graduates to pursue their dreams and embrace leadership opportunities.

The Institute is proud of the various awards won by the students and faculty this year, a number of them being national awards. The foremost of them are "NASI-SCOPUS Young Scientist Award" awarded to Dr. Rajendra Srivastava, Associate Professor of Department of Chemistry, in the field of Chemistry, "NASI Young Scientist Platinum Jubilee Award" awarded to Dr. Durba Pal, Assistant Professor, CBME, in the field of Biomedical, Molecular Biology and Biotechnology, "Prof. S. S. Sandhu Medal" by Indian Chemical Society, Kolkata, awarded to Dr. Narinder Singh in the field of Environmental and Analytical Chemistry, Dr. Srivastava Naidu, Assistant Professor, CBME, selected for DBT Ramalingaswami Re-Entry Fellowship.

PhD students, Mr. Gurvinder Pal Singh Sodhi, received the best presentation award in the International Conference on Innovative Engineering Materials (ICIEM 2017) held in Philadelphia, USA, and Mr. Navin Kumar, PhD scholar from Department of Physics secured the prestigious Bhaskara Advanced Solar Energy (BASE) internship.

The Chief Guest, Prof. Ashok Jhunjhunwala also congratulated the graduates. He insisted them to count each day of their life as transformation to create another good change. "Acquire more resources, update yourselves and keep your focus." he added. He ended his address by entreating the students to enjoy the roller coaster ride of life.



Achievements for 2017

- Student strength increased from 820 to 1120 and faculty strength jumped from 84 to 115 in 2017. Undergraduate intake jumped from 155 to 260 in 2017.
- The Institute crossed the mark of 1000 publications in the Scopus database. The average citations per paper was recorded at 8.4, which is the highest among all new IITs.
- The Institute started the B.Tech. program in Chemical Engineering, M. Tech. programs in Biomedical Engineering, Electrical Engineering and Computer Science Engineering.
- The Institute has successfully conducted GIAN Courses on Mechanobiology, Robotic Systems, Data Driven Kinematic Synthesis, Biomimetics, Surface Engineering, Fatigue Mechanics with experts from abroad.
- 83.16% of students being placed in 2017. More than 90% of Computer Science Engineering, close to 80% of Mechanical and Electrical Engineering students have been placed through campus interviews. An average package of about 11.48 lakhs per annum was offered to students this year.
- "Summer Visitation Program" started through which the institute has given full financial support to 10 faculty members of the institute to visit some of the finest research labs of the world for a period of 5-10 weeks.
- This year IIT Ropar gave a big push towards international collaborations and interactions. Two institute level delegations visited Australia, Singapore, Canada, US and Germany establishing contact with 13 universities and research labs in these countries. MOUs were also signed with the institutes for research collaborations and exchange programmes.



Know Our Faculty

Dr. Srivatsava Naidu has joined the Center for Biomedical Engineering – IIT Ropar as an Assistant Professor in September 2016. His doctoral work at Faculty of Human medicine, Justus-Liebig university – Giessen, Germany, investigated in detail the signal transduction and molecular mechanisms that control the transcriptional activation of cytoprotective genes during inflammatory/oxidative stress conditions in monocytic cells. For his postdoctoral work, Dr. Naidu has joined Prof. Zomerdijk lab at Wellcome trust center for gene regulation and expression, University of Dundee – UK. During this stay, he embarked on understanding the fundamental aspects of the non-coding RNA polymerase I (Pol I) transcription system, which is central for cell growth and division. Derailed Pol I system has been coupled to several human diseases, particularly, cancer. His work contributed in understanding the functional role of TAF1B, a transcription factor essential for the initiation of Pol I transcription. This work was published in Science journal and rated as top 2% by F1000. Subsequently, Dr. Naidu joined Cancer Research UK (CRUK), Manchester to continue his postdoctoral work. Here, he has identified and characterized a set of microRNAs that appears to have potent tumour suppressor properties in Non-small cell lung cancer (NSCLC). Nanoparticle-mediated delivery of these miRNAs dramatically reduced tumour growth in a very aggressive CDX (Circulating Tumour Cell-derived xenograft) mouse model, suggesting that these microRNAs could be new therapeutic promises for the treatment of NSCLC. This work is recently published in Nature Scientific Reports. Dr. Naidu has recently won Ramalingaswamy re-entry fellowship, an award sponsored by Department of Biotechnology – GoI. His lab at CBME – IIT Ropar, focusses on developing non-coding RNAs based strategies for cancer diagnosis and therapy.



IIT Ropar Delegation Visit

An academic delegation led by Prof. Sarit K Das, Director, IIT Ropar, along with Prof. M. L. Munjal, Senior Senator of IIT Ropar, Professor & INSA Senior Scientist, Department of Mechanical Engineering, IISc., Bengaluru, India, Prof. Raj P. Chhabra, Professor, Chemical Engineering, IIT Kanpur, Prof. Harpreet Singh, Professor, Mechanical Engineering Department and Dean, External Relations and Dr. Rohit Y. Sharma,



Associate Professor, Department of Electrical Engineering & Associate-Dean, International Relations, IIT Ropar, visited Canada, Germany and Unites States.

The visit aimed to bring some of the best talent overseas as faculty at the institute, to encourage research collaborations in several thematical areas and to facilitate faculty and student exchange, Joint proposals, Joint workshops and seminars and other

academic & research initiatives and interacted with Indian Diaspora in the form of NRI meets and IIT Alumni.

MoU were signed with SUNY Polytechnic, Massachusetts Institute of Technology (MIT), TU, Darmstadt, Germany. A collaboration was made with JWAFS (Jameel World water and Food Security) centre at MIT which will primarily focus on research work related to water and food.



CATCON 2017

The 3rd International Conference on Condition Assessment Techniques in Electrical Systems has been hosted by Department of Electrical Engineering, Indian Institute of Technology Ropar during November 16-18, 2017. The conference received about double the number of technical research papers in the condition monitoring of power equipment, an area which is attracting growing importance in developing countries like India and China. The first day started with intensive technical discussions during five tutorials from leading power sector company, ABB Sweden, by Dr. Santanu Singha and Dr. Subrat Kumar Sahu, Prof. Yasuhiro Tanaka from Tokyo City University, Prof. S. V. Kulkarni from IIT Bombay, Prof. Aiman El-Hag from American University of Sharjah.

Prof. S. K. Das, Director, IIT Ropar, inaugurated the conference and a cultural program of Odissi dance was performed by Padmashri Geeta Mahalik.

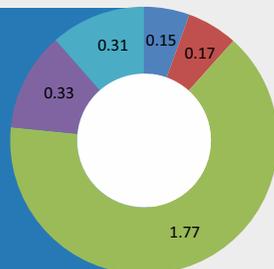
Six plenary sessions from the most experienced and renowned Prof. L. A. Dissado, University of Leicester, United Kingdom, Prof. L. Satish from IISc. Bangalore, Prof. Toan Phung, UNSW, Australia, Prof. Sivaji Chakravorty, Director, NIT Calicut, Prof. Tatsuki Okamoto, Tohoku University, Japan and member of CRIPI, Japan and Prof. Sarathi Ramanujam from IIT Madras were presented during the conference. 115 technical paper presentations from the delegates of India and abroad were held in parallel sessions.



External Funded Projects

- GITA programme
- Industrial Consultancy
- DST
- DBT
- Indo-U.S. Science & Technology

Total Amount Sanctioned Rs. 2.72 Crores from (September 2017- November 2017)



Vigilance Awareness Week

The Vigilance Awareness Week was observed at IIT Ropar from October 30, 2017 to November 4, 2017. This year the theme for observing Vigilance Awareness Week was “My Vision-Corruption free India”. On this occasion Prof. S.K. Das, Director, IIT Ropar administered a pledge to all faculty and staff members

working in IIT Ropar. A public lecture was organized on November 2, 2017 and Prof. Suveera Gill,



Professor, University Business School and CVO Punjab University Chandigarh delivered a speech on title “My Vision - Corruption Free India”.

During this week, two events, Essay writing and Debate competition were organized and participants were awarded.

IIT Ropar won Gold at Spardha 17

Ms. Pooja and Ms. Akansha won Gold medal in team event at IIT BHU Annual Sports Fest “Spardha'17” held from October 27-30, 2017. At pool stage they beat IIT BHU (2-0) and in finals they beat IIT Delhi (2-0). They also defeated RECC (2-0). Ms. Pooja, 2nd Year B. Tech, student of IIT Ropar also won the Individual Table Tennis Trophy by beating BDB College in the finals.



Unity Run – Rastriya Ekta Diwas

Board of Student Activities, IIT Ropar organised 'Unity Run' in the honour of *Iron Man of India - Sardar Vallabhbhai Patel*. On this occasion 'Rastriya Ekta Diwas (National Unity Day)' a Race was opened for students, faculty and staff members.



SPIC MACAY



SPIC MACAY (Society for the Promotion of Indian Classical Music And Culture Amongst Youth) IIT Ropar Chapter, organized a concert on Kathak Dance by Gauri Diwakar accompanied by Shri Yogesh Gangani (Tabla) and Shri Indu Prakash Trivedi (Harmonium & Vocal support).

Main Campus

This November has been an illustrious month as far as our permanent campus construction is concerned. There was phenomenal progress in Phase-1A and Phase-1B buildings. Against all odds we have successfully conducted the 6th Convocation at permanent campus and upheld the Director's promise of holding convocation for 2017 batch students at the upcoming campus.

The Phase-1B construction is also progressing with the playfields including cricket ground, tennis, basketball and volleyball courts completely ready. The Construction works for Campus School, Guest House and Residences are ongoing.

We are making huge strides in converting a livable environment in our permanent campus. Just as the saying goes "The beauty of a building lies not in its looks but in the strength of its foundation", we have focused both on foundation and exteriors. Coming December we have more interesting works and more buildings to complete. Just as Robert Frost said :

*"Miles to Go before I sleep and
Miles to go before I sleep....."*



हिंदी पखवाड़ा

हिंदी दिवस के उपलक्ष्य में भारतीय प्रौद्योगिकी संस्थान रोपड़ (IIT Ropar) में दिनांक 14.09.2017 से 28.09.2017 तक हिंदी पखवाड़ा का आयोजन किया गया। इस कार्यक्रम में मुख्य अतिथि के रूप में श्री प्रदीप श्रीवास्तव, वैज्ञानिक, सी.एस.आई.आर – केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ, ने अपने सायंटून्स द्वारा बड़े ही रोचक ढंग से कई वैज्ञानिक, तकनीकी एवं सामाजिक मुद्दों पर बात रखी। इस अवसर पर संस्थान के निदेशक प्रो. सरित कुमार दास ने कहा कि हिंदी एक वैश्विक भाषा है जो समूचे देश में बोली एवं समझी जाती है इसलिए सभी को इसके महत्व को समझते हुए इसके उत्थान के लिए प्रयास करने चाहिए।

दिनांक 28.09.2017 को इस पंद्रह दिवसीय कार्यक्रम के समापन समारोह में प्रो. गर्ग और श्री संजय भटनागर, कुलसचिव विशेष रूप से उपस्थित थे। हिंदी पखवाड़ा के अंतर्गत कुल 15 विभिन्न प्रतियोगिताओं का आयोजन किया गया। जिसमें कर्मचारियों व संकाय सदस्यों, संस्थान के विद्यार्थियों, अहिंदी भाषी कर्मचारियों, कर्मचारियों के बच्चों व परिवारजनों, संस्थान के सफाई कर्मचारी व सुरक्षा कर्मचारी व परिचारकों तथा हिंदी में सर्वाधिक कार्य की प्रतियोगिता का आयोजन किया गया। इन सभी प्रतियोगिताओं के लिए कुल 71 विजेताओं को नकद पुरस्कार राशि, स्मृतिचिन्ह और प्रमाणपत्र प्रो. गर्ग और श्री संजय भटनागर जी द्वारा दिये गये। इन सभी प्रतियोगिताओं में बच्चों के लिए आयोजित प्रतियोगिता तथा सफाई कर्मचारी / सुरक्षा कर्मचारियों के लिए आयोजित प्रतियोगिता एक प्रमुख आकर्षण रहा। डॉ. गिरीश प्रामोद राव कठाणे, कनिष्ठ हिन्दी अनुवादक ने कार्यक्रम की सफलता हेतु सभी का धन्यावाद किया।

Women's Sports Day



The Women's Forum, IIT Ropar organized Sports Day on November 18, 2017, for the female students, staff and faculty members of the Institute. Games like Cricket, Kho-Kho and some fun games like Lemon Spoon, Tug 'o' war were organized. Dr. Manju Khan, Chairperson, Women's Forum added "The courage, strength and character gained through sports participation are the very tools girls need to become the confident leaders of tomorrow." Cricket match between UG, PG and staff and Kho-Kho match between UG vs. PG were played.

Upcoming Event



New Joinings



Dr. Himanshu Paliwal
Assistant Professor
Chemical Engineering



Mrs. Rubal Batta
Junior Assistant
Diary & Dispatch

Staff Promotions



Sh. Amod Kanhere
Superintendent
Director Office



Mrs. Amrit Varsha
Superintendent
Academics



Sh. Vijay Kumar
Superintendent
Store & Purchase Section



Sh. Tarwinder S. Handa
Library Info. Officer
Central Library



Sh. Vipin Kumar
Accounts Officer
Accounts



Sh. Vijay Singh
Accounts Officer
Accounts



Sh. Anshu Vaid
Senior Assistant
Physics



Sh. Gurdeep Singh
Senior Assistant
Transport



Sh. Jitender Pal
Senior Assistant
(Accounts)
Students Affairs



Sh. Kaushal Kishore Jha
Senior Assistant
Mechanical Engineering



Ms. Poonam
Senior Assistant
Academics



Ms. Poonam Rani
Senior Assistant
Establishment



Sh. Ravinder Singh
Senior Assistant
Research