



IIT ROPAR announces its shifting to Permanent Campus

DIRECTOR'S MESSAGE



Dear Friends,
Greetings on the occasion of our 72nd Independence Day. We at IIT Ropar celebrated this day in a very special note when the tricolor was hoisted for the first time in our new permanent campus. It was an emotional moment for the entire IIT Ropar community who craved for

this moment for long. We celebrated this in a unique way. Firstly, by planting 700 saplings each one by a student, teacher and a staff in the new campus. Also, study materials were provided to the underprivileged kids of the locality who have been trained in the pre-schooling stage by the students of IIT Ropar for admission to formal schools. This speaks about the direction in which IIT Ropar is moving which on one hand is the expansion of the institute and creating quality infrastructure both in terms of physical and human resources. On the other hand, trying to implement our new curriculum where the emphasis is on creating professionals with hands-on experience and social responsibilities.

This quarter also saw the beginning of the movement to the new campus. They are already operating our Computer Science & Engineering department completely along with 560 students in the boys and girls hostel attending classes in the newly built lecture hall complex and a part of our administrative services in the new campus. We are set to move another 6 departments along with a large amount of infrastructure to the new campus within the coming quarter.

The last few months also saw a series of activities such as the Physics Day, the two week long specially designed Student Induction Program and the International Yoga Day celebration making our campus a vibrant and happening place.

In recent times we have seen a tremendous growth of our research and industries connect programs. We have got the first patent granted from IIT Ropar and a series of patents being filed. We also proactively increased our international connectivity through the visit of our delegation to a number of universities abroad including the MIT leading to research collaborations and student-faculty exchange programs. Dear Friends, the growth of IIT Ropar both qualitatively and quantitatively has been unprecedented during the recent years and with your support, suggestions and active cooperation, I am sure that we will intensify this momentum to establish IIT Ropar as an institution of global repute.

Jai Hind
Sarit K. Das

WREATHING THE CAMPUS IN GREENERY:

PLANTATION DRIVE ON INDEPENDENCE DAY AT PERMANENT CAMPUS.



With great joy and enthusiasm, IIT Ropar has celebrated the 72nd Independence Day by planting 700 trees in the permanent campus. The trees were planted at one go by faculty, staff and students. The Director, Prof. S.K.Das encouraged the students to plant more trees and take care of their plantations thereafter. He

said that every day should be treated as Van Mahotsav and plants should be grown to keep the environment green, clean, safe and healthy. The plants are named after the one who planted it and forever, he/she will look after it, leaving a legacy behind.

Thereafter, Prof. S. K. Das, Director, IIT Ropar, hoisted the national flag at the permanent campus, which was followed by the rendition of the National Anthem and patriotic songs presented by the students.

Listing the efforts made by IIT Ropar in the last one year for connecting to the society, The Director said "We are doing



excellent research with relevance to society. We are working on high impact research areas like Cancer Research, Artificial Intelligence and Ground Water management research."

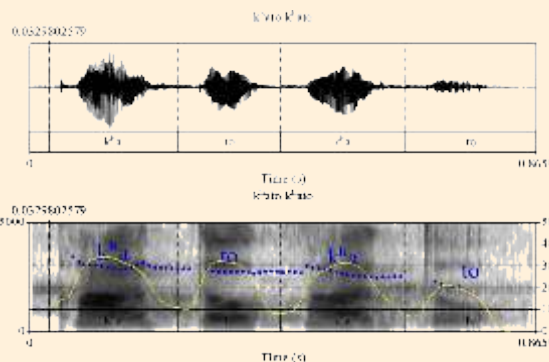
The Director also distributed sweets to the students and books to the children living in slum.

KNOW OUR FACULTY



Dr. Somdev Kar, Associate Professor of Linguistics, joined the Department of Humanities and Social Sciences (HSS), IIT Ropar, as an Assistant Professor in 2010. His doctoral research at Eberhard Karls Universität Tübingen, Germany, investigated the syllable structure of Bangla in the framework of Optimality Theory and Distributed Morphology. Prior to his Ph.D. in 2009, he earned his MA in Applied Linguistics from the University of Hyderabad in 2004. Dr. Kar worked on the phonology of a group of Tibeto-Burman languages of Sikkim as part of his post-doctoral research at the Central Institute of Indian Languages

(CIIL), Mysore, India. He worked at the Leibniz-Zentrum Allgemeine Sprachwissenschaft (ZAS), Berlin, Germany, as a research associate and later as a visiting faculty at Qatar University, Doha, Qatar, before joining IIT Ropar. His research interests lie in the field of Phonetics, Phonology (Optimality Theory), Distributed Morphology and Natural Language Processing (NLP). He, along with his doctoral students, is currently engaged in research activities concerning the phonological nature of certain linguistic phenomena like reduplication, fortition, vowel harmony, metathesis, germination, etc., in a group of Indian languages (Bangla, Odia, Maithili, Kanauji, Hadoti among others). He published a book and several research articles in internationally acclaimed journals.



VISIT OF IIT ROPAR DELEGATION



An Academic delegation led by the Institute Director, Prof. S. K. Das visited Universities and research labs in the US. The delegation visited N. C. State University, Research Triangle Institute, Raleigh, MIT, Cambridge. The main aim of

this visit was to augment research linkages between IIT Ropar and these Universities.

To take the institute to its next level of standing, the team has envisioned a focused drive to reach out to prospective faculty and educate them about various benefits of working at IIT Ropar.

The delegation also participated in the Young Investigators Meet at Boston. Under the aegis of the Council of Global Associates, the delegation met Indian Diaspora in Raleigh, Boston, and Chicago.

ORIENTATION



The institute has initiated a unique 13 day orientation programme for the new entrants which focused on overall development of the students rather than only giving academic information. The objective was to help both students as well as parents to adjust to the changes after entering the campus. The Institute encouraged students to develop their overall personality and skills, rather than just the academic knowledge. For every 5 students, a mentor was given who is a second year or a third year B.Tech. student of IIT Ropar so as to help the budding engineers to settle down in the new environment. The session began on 25th July with a lecture by the Director, IIT Ropar. It also included a presentation on the academic credit system and a session on the mental health counseling programme among other things. Every day was a new day for the new entrants with series of activities planned like Bhangra, Zumba Fitness, Human Values, Yoga, Club activities, flash mob, dramatics, sports etc.



TECHNOLOGY TRANSFER

@ IIT ROPAR – PATENTS GROWTH



The research work at IIT Ropar has witnessed a quantum jump in the last three years. The institute is increasingly focusing on application-based research rather than fundamental research. The institute has filed 19 Patents since 2012 and recently first patent has been granted to IIT Ropar for “PROCESS FOR

PREPARATION OF H⁺ FORM OF CRYSTALLINE MESOPOROUS ZSM-5” submitted by Dr. Rajendra Srivastava, Associate Professor, Department of Chemistry, IIT Ropar.

PHYSICS DAY



The Department of Physics, IIT Ropar organized the 3rd edition of its annual event Physics Day during August 17-18, 2018. The event comprised of colloquia by several

eminent speakers from across India. They include Prof. Pratap Raychaudhuri from TIFR, Mumbai, Prof. Subhendra Mohanty from PRL, Ahmedabad, Prof. N. Madhavan from IUAC, New Delhi, Prof. Parongama Sen from University of Calcutta, and Dr. Anand Kumar Jha from IIT Kanpur. Prof. Urjit Yajnik, IIT Bombay had delivered a Public Lecture in the evening of August 17, and narrated a brief history of conceptual development of quantum mechanics. Prof. Sarit Kumar Das, IIT Ropar had provided a glimpse of life of the legendary physicist, Richard Feynman. The Master and PhD students had enthusiastically attended all the activities during these days. Several PhD students and Post-Doctoral fellows in the Department had delivered short presentations on their ongoing research works. In addition, all the PhD students, and one M.Sc. student, had displayed posters on their works. A few posters have received Best Poster award based on the judgement of a team of experts.



IIT ROPAR ANNOUNCES ITS SHIFTING TO PERMANENT CAMPUS



Come July, IIT Ropar gets its permanent campus (Phase I) ready to get shifted. It marks the beginning of an era in the history of IIT Ropar to occupy its own land.

With a great sense of delight, the Ramanujan Block (Computer Science and Engineering Department), Radhakrishnan Block (Lecture Halls), Utility Building, Hostels (Sutlej and Raavi) and Dining Hall have been shifted to permanent campus.

Prof. S.K.Das, Director, IIT Ropar thanked MHRD for granting adequate funds to the tune of Rs. 400 crore for Phase-I development and for its support towards making the institute self-sufficient. He also thanked the state government for its overall support to the institute and for the continuous support for making IIT Ropar a world class stature in near future.

The honorable HRD Minister Sh. Prakash Javadekar has agreed to visit the institute and dedicate it to the nation soon.

SUMMER VISITATION PROGRAMME

This summer 17 faculty members visited top-notch universities for exploring international collaborative research opportunities during their 5-10 weeks of stay in the respective institutes. From the Department of Mechanical Engineering, Dr. Ravi Kant visited University of Cranfield, UK. Dr. Devranjan Samanta visited NORDITA, Stockholm, Sweden, KTH Mechanics, Stockholm, Sweden and KTH Mechanics Stockholm, Sweden. Dr. Ramjee Repaka visited Institute of Biomedical Technologies, Auckland University of Technology, New Zealand. Dr. Navin Kumar visited Rensselaer Polytechnic Institute, USA. Dr. Anupam Agrawal visited McMaster University, Hamilton, Ontario, Canada.

From Department of Computer Science and Engineering Dr. Somitra Kumar Sanadhya visited Institute of Information Science, Academia Sinica, Taiwan. Dr. Neeraj Goel visited NUS Singapore. Dr. Puneet Goyal visited University of Houston, USA. From Department of Civil Engineering, Dr. Sagar Rohidas Chavan visited LISAH, INRA Montpellier, France. Dr. Putul Haldar visited University of California, Los Angeles. From Department of Electrical Engineering, Dr. Suman Kumar visited Bradley Department of Electrical and Computer Engineering, Virginia Tech, Blacksburg, USA. From Department of Chemistry, Dr. T. J.

Dhilip Kumar visited UNSW Canberra, Australia. Dr. C.M Nagaraja visited Kyoto University, Institute for Advanced Study, Institute for Integrated Cell-Material Sciences, Kyoto, Japan. From Department of Physics, Dr. Mukesh Kumar visited Rice University, Houston, Texas. From Department of Mathematics, Dr. S.C. Martha visited Shanghai Jiaotong University, China. Dr. Arti Pandey visited Carleton University, Ottawa, Canada. From Department of Humanities and Social Sciences, Dr. Samaresh Bardhan visited Cardiff University, UK.

RESEARCH @ IIT ROPAR IN NEWS

SUSTAINABILITY

IIT Ropar shows the way in water conservation

SARPREET BAHAH in Chandigarh

The total water requirement for the institute is 4M kilolitres per day, of which 300 kilolitres is met through the rain-water and the remaining 3.7M kilolitres is met through recycling of treated wastewater. The total waste water generated is 3.57 kilolitres per day, out of which 345 kilolitres is treated in a STP to a capacity 300 kilolitres and 1 kililitre, the generated from laboratories is treated in an RTP of capacity 3 kilolitres. Around 10 kilolitres of recycled water is being used for flushing purposes. 36 kilolitres of treated green area and

THE BIG PICTURE

Within a year of operation from the permanent campus, IIT Ropar took a big picture approach to waste water. The campus already has a functional on-site wastewater treatment plant.

"We have proven strategies to be a responsible and environmentally conscious institute day on day. We have been honoured with a star GRHA rating too," he added.

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Ropar IIT App software imitates human brain

By Chaitanya Kulkarni

What is AI software?

The software can be connected with surveillance cameras. As it is a security-based application, images captured and analysed by the programme are not shared and are used only for internal purposes. The software is designed to detect and identify suspicious activities in real-time. The software can be used for surveillance of public places, such as airports, train stations, and other high-security areas. The software can be used for surveillance of public places, such as airports, train stations, and other high-security areas. The software can be used for surveillance of public places, such as airports, train stations, and other high-security areas.

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IIT Ropar teacher part of team on seismic zonation of India

Shruti Chatterjee in Chandigarh

The study has been conducted by IIT Ropar's civil engineering professor Dr. Somendra Kumar Singh and his team. The study is part of a larger project to assess the seismic hazard in India. The study is part of a larger project to assess the seismic hazard in India. The study is part of a larger project to assess the seismic hazard in India.

THE BIG PICTURE

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Moods of mob: New camera app can help detect emotions

Chaitanya Kulkarni

IIT Ropar's dept of computer science has created an App that can help detect emotions

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IIT prof finds burn-free treatment for cancer

SARPREET BAHAH in Chandigarh

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Visit of eminent Prof. Rohit N. Karnik, MIT, USA



Professor Rohit N. Karnik, Associate Professor, Mechanical Engineer, Massachusetts Institute of Technology, USA visited IIT Ropar and gave a lecture on “Unconventional Nanomaterials and Paradigms for Water Purification and Quality Monitoring in the 21st Century”. He presented his work on exploring novel materials and devices to enable water purification, quality control and findings in India and technology development to address the gap in monitoring trace contaminants in water by ‘dry sampling’ technology.

हिंदी कविता प्रतियोगिता एवं गीत गायन प्रतियोगिता

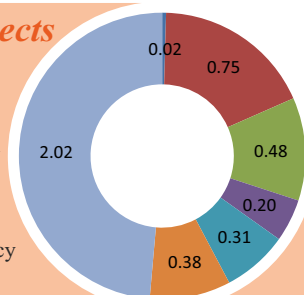


भारत की राजभाषा, हिन्दी के प्रोत्साह के लिए भारतीय प्रौद्योगिकी संस्थान रोपड़ में 05 अगस्त, 2018 को नवागंतुक छात्रों के लिए हिंदी कविता प्रतियोगिता का आयोजन तथा दिनांक 13.08.2018 को स्वतंत्रता दिवस के उपलक्ष्य में देशभक्ति गीत गायन प्रतियोगिता का आयोजन किया। जहां नये शैक्षिक सत्र में दाखिला लिये छात्रों के साथ संपर्क स्थापित करने के उद्देश्य से नवागंतुक छात्रों के लिए हिंदी प्रतियोगिता को आयोजित किया गया वहीं स्वतंत्रता की भावना को मंच प्रदान करने के उद्देश्य से देशभक्ति गीत गायन प्रतियोगिता का आयोजन किया गया। जहां 05 अगस्त को हुई कविता प्रतियोगिता में नवागंतुक छात्रों ने बड़-चढ़ कर हिस्सा लिया वहीं 13 अगस्त को संस्थान के कर्मचारियों तथा विद्यार्थी मित्रों ने देश के प्रति अपनी भावनाओं को कविता के रूप में प्रस्तुत किया। इन दोनों प्रतियोगिता में संस्थान के सदस्यों ने अपने कवि गुणों से सभी को परिचित कराया। हिंदी कविता प्रतियोगिता में डॉ. समदर्शी, सहायक प्राध्यापक, विद्युत अभियांत्रिकी तथा देशभक्ति गीत गायन प्रतियोगिता में डॉ. यशवीर सिंह, सहायक प्राध्यापक परीक्षक के रूप में उपस्थित थे।



External Funded Projects

- CSIR
- DBT (Joint research project with Tezpur University, Assam,
- DST (Collaborative with PGIMER and CSIO Chandigarh)
- Indian Space Research Organisation (ISRO)
- INDIAN-ISRAELI JOINT Project
- Industrial Consultancy
- SERB



4 Total Amount Sanctioned Rs. 4.16 Crores from (June to August, 2018)

YOGA DAY



IIT Ropar celebrated 4th International Day of Yoga . The occasion was graced by yoga guru and expert, Mr. Dinesh Kumar. About 200 students, staff and faculty participated and performed different asanas under the guidance of Mr. Dinesh.

Prof. S.K.Das, Director, IIT Ropar also participated in this event and shared his thoughts on this occasion. He said, “Yoga is not about exercise but to discover the sense of oneness with ourselves, the world and Nature.”

During the morning session, a common Yoga Protocol was conducted. The participants were taught various asanas and pranayam. The instructor explained the benefits of these for one's physical and mental health and well-being. The trainer encouraged the participants to practice yoga every day. In the evening session participants performed various asanas as per the protocol. The participants practised all the exercises with full determination and zeal.

NEW JOINING - FACULTY

 Dr. Aparna N Assistant Professor Humanities & Social Sciences	 Dr. Ashwani Sharma Assistant Professor Electrical Engg.	 Dr. Anil Shukla Assistant Professor Computer Science & Engg.	 Dr. Ashish Kumar Sahani Assistant Professor Biomedical Engg.
 Dr. Abhishek Chakraborty Assistant Professor Civil Engg.	 Prof. Bijoy Boruah Visiting Professor Humanities & Social Sciences	 Dr. Chandar Sekhar Sharma Assistant Professor Mechanical Engg.	 Dr. Debansu Roy Assistant Professor Physics
 Dr. Devarshi Mrinal Das Assistant Professor Electrical Engg.	 Dr. Dibyakusum Ray Assistant Professor Humanities & Social Sciences	 Dr. Neha Sardana Assistant Professor Metallurgical & Materials Engg.	 Dr. Priya Ghatwai Visiting Faculty Metallurgical & Materials Engg..
 Dr. Rahul TM Assistant Professor Civil Engg.	 Prof. R.G.Pillay Visiting Professor Physics	 Dr. Ratan Sarmah Assistant Professor Civil Engg.	 Dr. Satyam Agarwal Assistant Professor Electrical Engg.

NEW JOINING STAFF

 Dr. Shirshendu Das Assistant Professor Computer Science & Engg.	 Sh. Amit Kaushal Junior Technical Supt. CRF	 Sh. Ashwani Chandra Junior Assistant Establishment
 Sh. Anurag Kumar Singh Junior Lab Assistant Electrical Engg.	 Sh. Athira Ashokan. K Junior Lab Assistant Physics	 Sh. Devendra Kumar Junior Lab Assistant Electrical Engg.
 Sh. Gurmail Singh Horticulture Consultant Horticulture	 Ms. Harpreet Kaur Library Information Officer Library	 Sh. Om Pal Junior Lab Assistant Mechanical Engg.
 Sh. Punet Kumar Junior Lab Assistant Mechanical Engg.	 Sh. Puneet Goel Deputy Registrar Store & Purchase	 Sh. Rajib Kumar Dash Junior Lab Assistant Mechanical Engg.
		 Sh. Pramod Dubey Junior Superintendent Establishment
		 Sh. Vijay Narayan Junior Superintendent ICSR & Dean Research