



DIRECTOR'S MESSAGE

Dear Friends,

We have come to the end of another academic year which showed an unprecedented growth both in quantity and quality for the institute. This summer our student strength is likely to touch 1600 while the faculty strength is set to reach 160. This is a steep rise from just 620 students and 66 faculty members three years back.

IIT Ropar has come out as 22nd ranked institute in the engineering category of the National (NIRF) ranking. Although it is commendable for a 9-year old institute to reach this distinction, we are not satisfied with this and our progress will definitely reflect with higher ranking in days to come. During the last few months, we have conducted various National and International events. The most important of which was our Research Conclave, participated by our research scholars and eminent personalities from all around the country. We also conducted AAROHAN and ADVITIYA, the Annual Sports and Technical festivals of IIT Ropar. Our delegation recently visited United States to forge collaboration with various universities including MIT (Food and Water program). We have also been able to attract a large number of probable faculty candidates through this visit.

The other important landmark in the history of IIT Ropar is that WE ARE MOVING TO OUR NEW PERMANENT CAMPUS this summer. It may be mentioned that we will continue to use our transit campus also for sometime till the next phase of construction is complete. Campus shifting is a major challenge which I am sure with all your efforts and wishes this will be done successfully.

With your help and co-operation, I am confident that we will be able to take up the challenges ahead and establish ourselves as an institute of global stature.

Jai Hind.

Sarit K. Das

RESEARCH CONCLAVE

Research Conclave 2018 was organized for the first time in IIT Ropar, with 4 invited talks, 87 posters and 10 flash presentations. Two eminent researchers Prof. D. K. Srivastava, Former Director, Variable Energy Cyclotron Centre, Kolkata and Prof. Sanjay Mittal, Head, Aerospace Engineering, IIT Kanpur visited as an expert.



Interesting panel discussions and a special interactive session with Prof. S. K. Das, Director, IIT Ropar attracted the young researchers.

Prof. D. K. Srivastava underscored the importance of a research culture that had humanism, ethics and excellence at its core values, emphasizing the importance of the research atmosphere in an Institute or in a University defining its true character. Also stressing on the need for institutionalizing research excellence. He added that while directed research need to be given a priority, for innovation the basic research should also be encouraged.

Prof. Sanjay Mittal spoke about emerging paradigm shift in research and its



wider implications for sustaining a vibrant research culture and spoke about need to strive towards excellence and innovation.

Prof. S.K. Das, shared the highlights of his research journey with the audience and underscored the importance of the researcher having an eye for detail. Several challenges while doing research were discussed during an interactive session.

Prof. Harpreet Singh, Dean (ICSR, II & PR) felicitated with Faculty Research and Innovation Award (Mid Career Researcher) 2017-18 and Dr. Narinder Singh, Associate Professor, Department of Chemistry felicitated with Faculty and Innovation Award (Young Career Researcher) 2017-18.

It was announced that Research day will be organized annually at IIT Ropar so that the developments are updated and inputs from researchers are considered in taking the progress further to achieve goals.



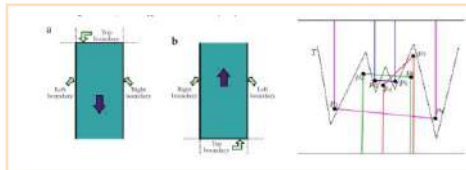
KNOW OUR FACULTY



Dr. Apurva Mudgal joined IIT Ropar in January 2010. He is currently Associate Professor and Head of Department of Computer Science and Engineering. He has received his B. Tech. in Computer Science and Engineering from Indian Institute of Technology Bombay and his PhD from College of Computing, Georgia Institute of

Technology, Atlanta, USA. His thesis dealt with design and analysis of algorithms for robot navigation in deterministic environments. His broad area of research is theoretical computer science, with the current emphasis on computational geometry and approximation algorithms.

His research group studies a variety of covering and packing problems in geometry. Problems considered include the generalized class cover problem with strips and half-strips, constrained problems where objects intersect an inclined line, stabbing problems with two sets of geometric objects, set cover and hitting set with bounded length axis-parallel rectangles, and geometric red-blue set cover problem. He has also contributed to the design of approximation algorithms for cumulative vehicle routing problem in general metric graphs where the objective is to minimize the fuel consumed by vehicles.

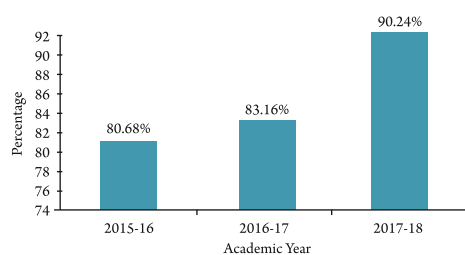


PLACEMENTS

IIT Ropar has successfully concluded its placement season 2017-18 with 90.2% placement and average salary of 11.77 lakh/ annum. The premier education institute has witnessed an overall rise in the number of jobs offered across all streams with students receiving offers from reputed companies including Goldman Sachs, Amazon, Deloitte, Direct I, ISRO, Samsung, Saavn, Mahindra & Mahindra, Maruti Suzuki, Mathworks, Oracle, OYO Rooms, Finisar, Go Products Engineering, RoundGlass, Reliance Jio, TATA Motors, TESCO, True Chip and many more. This year, the number of pre-placement offers (PPOs) has also increased from 4 last year (2016-17) to 10 this year (2017-18). A total of 5 start-ups made 9 offers.

While the department of Computer Science & Engineering reached close to 95% placement, Mechanical Engineering witnessed placement of around 92% and Electrical Engineering of around 82% of the registered students. These numbers only corroborate the institute's existing liberal academic curriculum that allows students to take up varied courses of their own interest. A Career Development and Corporate Relations Centre (CDCRC) has been established recently in IIT Ropar, is meant for professional development of students by providing them in-house training in the area of business communications, soft-skills, guide

Placement @ IIT Ropar



them towards best National and International internships and jobs available and acts as a communication channel between Industry and IIT Ropar.

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, and MIT, Cambridge. The main aim of this visit was to augment research linkages between IIT Ropar and these Universities.

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.



WORKSHOP ON DEVELOPMENT AND OPPORTUNITIES OF HIGHER EDUCATION IN GERMANY @ IIT ROPAR

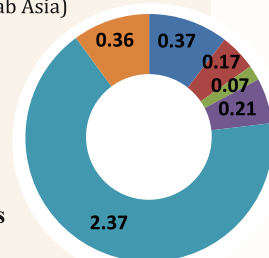


The Office of International Relations organized a workshop in association with German Academic Exchange Service (DAAD) to interact with faculty and students regarding the developments and opportunities in higher education and research in Germany on April 26, 2018. Dr. Apoorv Mahendru, Director, Marketing DAAD Regional Office New Delhi, Dr. Aditi Gosavi, Senior Advisor, DAAD Regional Office New Delhi, Dr. Matthias Kiesselbach, Director, DFG office India, Dr. Stefan Diederich, Head, Freie Universität Berlin – Liaison Office New Delhi, Dr. Poonam Sehgal Suri, Max Plank Institute, visited IIT Ropar during the workshop.

EXTERNAL FUNDED PROJECTS

- Digital India Corporation (Formerly Media Lab Asia)
- Industrial Consultancy
- ICSSR
- DBT
- SERB-DST
- INDIAN-ISRAELI JOINT Project

Total Amount Sanctioned Rs. 3.55 Crores from (March 2018- May 2018)



EVENTS AT A GLANCE

AAROHAN



AAROHAN, the Annual Inter College Sports Fest of Indian Institute of Technology Ropar, commenced on Saturday, March 16, 2018 and concluded on March 18, 2018. Aarohan offers a platform for students from all over India to showcase their talent and compete

with the best upcoming sportspersons in the country. Various competitions held like Athletics, Badminton, Basketball, Chess, Cricket, Football, Table Tennis, and Volleyball.

Approximately 550 students participated in the customized and



fun-filled track and field events. Pradeep Narwal (Best Raider of National Kabaddi Team) and Surender Nada (Captain of Haryana Steelers), the renowned national Kabaddi players were the Chief Guest and the Guest of Honor respectively. IIT Ropar won the overall trophy at Aarohan'18.

ADIVITYA



Indian Institute of Technology Ropar witnessed its annual Techno-Management Festival, Advitya during March 23-25, 2018. This was the 2nd edition of this technological and scientific event. This year, the theme of Advitya 2018 was "A Space Expedition" and was based on escalating skills and knowledge

to new heights in the sky. During the event, Prof. M. L. Munjal, Indian Acoustical Engineer, Honorary Professor, and INSA senior scientist at the Facility for Research in Technical Acoustics of the Indian Institute of Science, delivered a talk on India's fighter jet engine. The fest witnessed a range of scientific and technical activities and novel events from interesting fields like Coding, Robotics, Finance, Design and Entrepreneurship. Day 2 of the fest saw one such event- "Young Scientist", where students got a chance to showcase their talent of building. The event invited young scientists and engineers from schools and colleges all over India to demonstrate the best science/technical project they had designed. Water Rocket Competition projects was organised for the first time.



WORKSHOP ON INSTITUTIONAL DIGITAL REPOSITORY



The Library, IIT Ropar and National Digital Library of India (NDLI), IIT Kharagpur, an MHRD Project, Govt. of India, jointly and successfully organized a two-day "Regional (North-IV) Workshop on Institutional Digital Repository at IIT Ropar during March 16-17, 2018. This workshop witnessed overwhelming response from the seven states of North and Central India. There were 61 enthusiastic participants from 41 higher educational institutions and research labs such as CFTIs, Universities, CSIR and other reputed institutions. The IIT Ropar Director, Prof. Sarit Kumar Das inaugurated the Workshop, Prof. P. P. Das, Joint-PI of the NDLI Project and Dr. Sutradhar, Co-PI

of the NDLI Project were the guests for the Inaugural function. Prof. P. K. Raina, Dean, Academics & Chairman, Library Committee welcomed the gathering. During hands-on-session of IDR workshop, the two experts from NDLI Mr. Shibabroto Banerjee, Principal Project Officer - Systems and Mr. Samrat Guha Roy, Central Library, IIT Kharagpur taught IDR concepts very well and made DSpace Prerequisites and Installation very clear to the participants.

RESEARCH @IIT ROPAR IN THE NEWS

One-day research conclave concludes at IIT Ropar

Research conclave at IIT Ropar, organized by the Department of Research and Innovation, concluded on Saturday, March 17, 2018. The conclave was a one-day event where researchers from various institutions shared their work and experiences. The event was attended by Prof. Sarit Kumar Das, IIT Ropar Director, and Prof. P. P. Das, Joint-PI of the NDLI Project.

IIT Ropar develops technique for early diagnosis of cancer

IIT Ropar researchers have developed a new technique for early diagnosis of cancer. The technique involves the use of a special device that can detect the presence of cancer cells in a sample. The device is called the "Infrared Imaging Method" and is claimed to be a fast, painless, non-contact and non-invasive imaging method.

IIT Ropar develops infrared tech to detect breast cancer

IIT Ropar researchers have developed a new technique for early diagnosis of breast cancer. The technique involves the use of a special device that can detect the presence of cancer cells in a sample. The device is called the "Infrared Imaging Method" and is claimed to be a fast, painless, non-contact and non-invasive imaging method.

आविष्कार: आईआईटी के प्रो. आनंदराज को मिली 'जेसी बॉय फैलोशिप', किमेरिक टीके से खत्म होगी टीबी

आविष्कार: आईआईटी के प्रो. आनंदराज को मिली 'जेसी बॉय फैलोशिप', किमेरिक टीके से खत्म होगी टीबी। प्रो. आनंदराज ने एक नए टीके का आविष्कार किया है जो किमेरिक टीके से खत्म होगी टीबी। यह टीका बहुत ही प्रभावी है और इसे जल्द ही बाजार में लाने का प्रयास किया जा रहा है। प्रो. आनंदराज ने कहा कि यह टीका बहुत ही महत्वपूर्ण है और इसे जल्द ही बाजार में लाने का प्रयास किया जा रहा है।

THE TIMES OF INDIA

Vaccine for TB immunity. IIT Ropar researchers have developed a new vaccine for TB immunity. The vaccine is called the "Vaccine for TB immunity" and is claimed to be a fast, painless, non-contact and non-invasive vaccine. The vaccine is being tested in a clinical trial and is expected to be available in the market soon.

DR. R. K. LAHIRI MEMORIAL LECTURE



The Second 'Dr. Rajyashree Khushu-Lahiri Memorial Lecture' was hosted on April 10, 2018. The renowned Sahitya Akademi Award winning writer Mrs. Esther David delivered a lecture on "Creativity is a Room with Many Doors". Dr. Rajyashree Khushu-Lahiri was remembered on this day.

MAIN CAMPUS



The first phase of buildings of IIT Ropar Main Campus is going to be taken over by the Institute in July 2018 that is from the next academic session. Buildings such as Computer Science Electrical Engineering, Mechanical Engineering, Chemistry, Administrative building, Hostels for Boys and Girls, Dining Hall, Lecture Halls, and Utility Building are going to become operational from end of the July 2018. The Main Campus of the Institute is being constructed with utmost zeal and combined efforts of IIT Ropar administration, CPWD, Construction Management Group of IIT Ropar and all other involved agencies.



NEW JOINING (FACULTY)



Prof. Javed Agrewala
Professor
Bio Medical Engg.



Prof. Ishwar Singh
Visiting Professor
Physics



Prof. Christopher C. Berndt
Adjunct Professor
Mechanical Engg.



Dr. Avijit Goswami
Associate Professor
Chemistry



Dr. Asoka Biswas
Associate Professor
Physics



Dr. Apurva Mudgal
Associate Professor
Computer Science & Engg.



Dr. C. M. Nagaraja
Associate Professor
Chemistry



Dr. Ekta Singla
Associate Professor
Mechanical Engg.



Dr. Partha S. Dutta
Associate Professor
Mathematics



Dr. Ranjan Das
Associate Professor
Mechanical Engg.



Dr. Somdev Kar
Associate Professor
Humanities & Social Sciences



Dr. Brajesh Rawat
Assistant Professor
Electrical Engg.



Dr. Devraj P.
Assistant Professor
Humanities & Social Sciences



Dr. Mahendra Sakare
Assistant Professor
Electrical Engg.



Dr. Parwinder Singh
Assistant Professor
Humanities & Social Sciences



Dr. Reet Kamal Tiwari
Assistant Professor
Civil Engg.



Mr. S. Muthulingam
Assistant Professor
Civil Engg.



Dr. Sairam Kaliraj
Assistant Professor
Mathematics



Dr. Santanu Sarkar
Assistant Professor
Mathematics



Dr. Saswata Shannigrahi
Visiting Faculty
Computer Science & Engg.



Dr. Shruti Verma
Assistant Professor
Electrical Engg.



Dr. Swathi Krishna S
Assistant Professor
Humanities & Social Sciences



Dr. Vishwa Pal
Assistant Professor
Physics

NEW JOINING (STAFF)



Mr. C. S. Sham Sundar
Deputy Registrar
Academics



Sh. Puneet Garg
Assistant Registrar



Mrs. Neeru Chhabra
Chief IT Manager IT



Ms. Maninder Pal Kaur
Junior Assistant



Sh. Manoj Kumar
Junior Assistant



Ms. Sheetal Bhola
Junior Assistant



Sh. Saurabh Bhatia
Junior Assistant



Ms. Deepika Thakur
Staff Nurse
Medical Centre



Sh. Sushil Kumar
Junior Technical
Superintendent
Chemistry



Sh. Avtar Singh
Junior Lab Assistant
Central Research Facilities
(CMNF Lab)



Sh. Tanveer Singh
Junior Lab Assistant
Chemistry



Sh. Sunil Yadav
Junior Lab Assistant
Computer Science &
Engineering



Sh. Rajiv Kumar
Senior Lab Assistant
Mechanical Engineering



Sh. Ram Kumar
Junior Lab Assistant
Mechanical Engineering

PROMOTIONS