



DIRECTOR'S MESSAGE

Dear Friends,

Spring has set in and everything is looking beautiful around us. Probably it has brought good news for IIT Ropar also. We had the mega event of BAJA SAEINDIA IIT ROPAR 2018 at our newly built campus where 58 teams from all across the country, consisting of 1500 engineering students, participated in conceptualizing, designing, fabricating, testing and racing All Terrain Vehicles (ATVs) in our newly built campus. During the event our new campus came alive. An event of this magnitude not only shows our organizational capabilities but also our preparedness for moving to the new campus which is going to happen this summer. I congratulate Dr. Ekta Singla and her team who have put tremendous effort to make the event successful.

During the last few months at various levels, the impactful research carried out at IIT Ropar has been highlighted. Be it food sensor technology, cancer detection or tumor ablation, IIT Ropar has presented some ground breaking results during this period in research. We organised Mini - Marathon and Strengthen in our campus to re-iterate that healthy mind and healthy body go hand in hand. We had important events like BROCAS (Symposium on cognitive sciences) organized by department of Humanities and Social Sciences. Our faculty strength touched 120 almost doubling during the last three years in keeping with our 1100+ students with newer departments such as Materials & Metallurgical Engineering coming up this year.

The greatest challenge for us now is to complete the first phase of construction and move to the new campus. I am happy to say that we are on course for this challenge. IIT Ropar is ready to move to a bigger canvas and paint a colorful picture in the landscape of technological education in the years to come.

With your help and wishes from all of you we are determined to fulfill this promise.

Jai Hind.
Sarit K. Das

IIT ROPAR WITNESSED 'GROUND TO GLORY'



IIT Ropar ground witnessed leg 2 of the 11th edition of the BAJA SAEINDIA 2018-IIT ROPAR which finally came to successful conclusion on 11th March after 3 days of rigorous scrutiny, leaving behind many exhilarating moments. A total of 25 out of 58 BAJA teams competed the endurance round.

BAJA SAEINDIA 2018-IIT ROPAR received an overwhelming response with representation from all zones- Western, Northern, Eastern and Southern zones in India celebrating the BAJA SAEINDIA 2018 IIT ROPAR theme 'Ground to Glory'. Crossing all the hurdles and taking oscillations on the sandy and muddy track, Government College of Technology, Coimbatore, Tamil Nadu, was announced the winner of the Leg 2 of the 11th edition of the BAJA series in India and it took away a cash prize of Rs 1,50,000. Government College of Engineering, Aurangabad, Maharashtra was declared as the first runners-up and it received Rs 1,00,000 cash prize.

The Four-hour endurance race was flagged off by the dignitaries present at the event. The 2.98 kms long race track consisting of muddy pits, cliffs and slopes of 15-20 fts of height threw tougher challenges for the students and pushing them to their limits.

Mr. Sunil Chaturvedi, CEO, ASDC presided over as the Chief Guest and gave prizes to the winners. He said, "Events like BAJA will help in bringing out the

best of automotive technologies in India and will help in increasing automotive engineers, which India is lacking in."

Congratulating the winning teams, Prof. S. K. Das, Director, IIT Ropar, appreciated the teams and their mentors for bringing out of classroom learning techniques, team leadership and team unity among the youths of tomorrow.

Talking about the experience of hosting such a big event, Dr. Ekta Singla, Convener, BAJA SAEINDIA 2018 - IIT Ropar gave the vote of thanks to the Organizing Committee and said, "The competition was to simulate real world engineering design projects and their related challenges. Each team's goal was to create a safe, easily transported, easily maintained and fun to



Dr. Ekta Singla

drive prototype without any direct involvement from professional fabricators.” On this occasion, Sh. Navjot Singh Sidhu applauded the initiative taken by IIT Ropar for hosting such an event which gives out of classroom learning opportunity to youth.



KNOW OUR FACULTY



Dr. C. C. Reddy

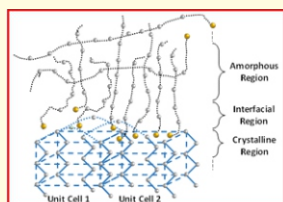
Dr. C. C. Reddy has joined IIT Ropar as an Assistant Professor in the Department of Electrical Engineering and is currently working as Associate Professor since 2016. After completing his ME & PhD from Indian Institute of Science (respectively in July 2005 and Jan 2008), he worked as a Senior R&D Engineer in Ultra High Voltage (UHV)

research lab of J-Power Systems Corporation, Hitachi, Japan, a joint venture company of Hitachi Cables Ltd. and Sumitomo Electric Company and served for four years, till 2011. He has worked with several universities of Japan including Toyohashi

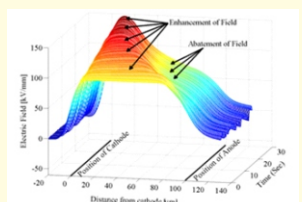


PEA System developed in HV Lab

University; Waseda University; Tokyo City University; Numazu Institute of Technology. His main research focus is on compact HV generation and transmission, including development of novel nano-materials for High Voltage insulation application (Nano-dielectrics), including Power Cables (HVDC/AC), Power Transformers, Bushings; Mechanism of Breakdown, Space Charges and Conduction in modern dielectric materials. Currently he has initiated work on Electric Vehicles and Micro-grids in his group. Recently he developed measurement technique for finding charge trapping in HVDC Cable insulation in his HV Lab. He has contributed to fundamental research in high-field conduction phenomenon in polymeric dielectrics and proved that conventional theoretical models like Schottky, Poole-Frenkel etc. fail to track conduction in polymers and proposed new theory for conduction in dielectric materials. He is engaged in defence research, power and renewable energy research in latest topics applicable to country's safety and energy security. He is developing charging solutions for electric vehicles for meeting the next generation transportation requirements.



Predicted structure of LDPE
(Power cable insulation)



Electric Field in Cable
Under High Voltage

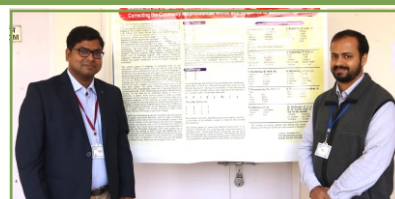
GLOBAL CHALLENGES RESEARCH FUND OVERVIEW



The Office of International Relations has organized a workshop in association with Cardiff University, UK to spread awareness about various funding opportunities under Global Challenges Research Fund and Commonwealth

Fund on February 15, 2018. Prof. Nora De Leeuw, Pro Vice Chancellor, (International & Europe), Cardiff University was the speaker. Nearly 50 faculty members and students attended this workshop. IIT Ropar has been actively involved in several Indo-UK bilateral projects. This workshop will go a long way in further consolidating our research collaborations with UK Universities.

BROCAS



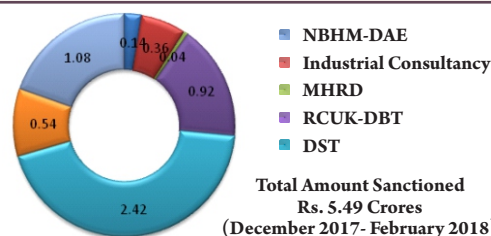
Dr. Somdev Kar, IIT Ropar
with a participant



Prof. Hema A. Murthy,
IIT Madras

The Department of Humanities and Social Sciences (HSS), Indian Institute of Technology Ropar, in collaboration with Central Institute of Indian Language (CIIL), Mysore, organized its first linguistic symposium titled Bridging Research on Cognition and Speech (BROCAS) on February 17-18, 2018. The 2-day symposium aimed at bringing together budding linguists, research scholars and practitioners from qualitatively different research backgrounds to present their ongoing research in the fields related to Phonology and/or Language cognition. The seminar began with an inspirational talk by Prof. S. K. Das, Director IIT Ropar and then followed by 5 plenary talks, 12 oral presentations and 10 poster presentations. Eminent scholars from reputed institutes shared their knowledge and experience through various plenary sessions.

EXTERNAL FUNDED PROJECTS



RESEARCH @IIT ROPAR IN NEWS

प्रोफेसर की खोज: फूड खराब हो तो यलो से ब्लू हो जाएगी चिप

आइआईटी रोपर के प्रोफेसर सीतार और उनके दो स्टूडेंट की बनावी चिप येल और गहरा नीला रंग बदलने से खराब हो रहे फूड को पहचानने में मदद करेगी।

सीतार प्रोफेसर की खोज: फूड खराब हो तो यलो से ब्लू हो जाएगी चिप। यह चिप खराब हो रहे फूड को पहचानने में मदद करेगी।

IIT Ropar's explosive detector can take place of sniffer dogs

Dr. Arun K. Sharma, IIT Ropar, has developed a sensor that can detect even minute quantities of nitroaromatics – the organic chemicals used to make various explosives – including Trinitroethylene (TNT). Since Trinitroethylene is highly volatile, the chemical properties of nitroaromatics, the detector would be more accurate than sniffer dogs. Though effective, the



Aquatic sensors could put sniffer dogs out of work for dogs is not foolproof.

IIT-Ropar finds way to speed up wound healing in diabetics

Asst Professor's Research Gets International Recognition

Dr. Durba Pal, Assistant Professor, IIT Ropar, has developed a potential targeted therapeutic approach which can help in the healing of diabetic wounds. The research has been recognized by the Association of American Physicians of Indian Origin (AAPIO) and the Association of Indian Physicians of Indian Origin (AIPIO).

THE TIMES OF INDIA
Copyright © 2014. All Rights Reserved.
Mon, 22-Jan-18, Education Times - Times Of India - Delhi, Size: 240 sq.cm;
Circulation: 972180; Page: 4

Wound repair

Durba Pal, assistant professor, IIT Ropar, discusses her work on diabetic wound healing.

Dr. Durba Pal, assistant professor, IIT Ropar, has developed a potential targeted therapeutic approach which can help in the healing of diabetic wounds. The research has been recognized by the Association of American Physicians of Indian Origin (AAPIO) and the Association of Indian Physicians of Indian Origin (AIPIO).

Tech to make skin cancer detection cheap, painless

Researcher's work could help detect skin cancer early

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IIT Ropar develops skin cancer detection tech

Times News Network

Dr. Ramjee, IIT Ropar, has developed a potential targeted therapeutic approach which can help in the healing of diabetic wounds. The research has been recognized by the Association of American Physicians of Indian Origin (AAPIO) and the Association of Indian Physicians of Indian Origin (AIPIO).

EVENTS AT A GLANCE

REPUBLIC DAY



The 69th Republic Day was celebrated at IIT Ropar with lots of enthusiasm by the entire IIT Ropar fraternity. Prof. Sarit Kumar Das, Director, IIT Ropar, hoisted the Indian National Flag amidst the echoes of the

Indian national Anthem. The Flag hoisting ceremony was followed by a proud march past by the students and the security, showcasing patriotism and pride in every step. The patriotic fervour of the students on this day was seen lending a festive air to the occasion.

MoU SIGNED WITH CIAB



Center of Innovative and Applied Bioprocessing (CIAB), Mohali and Indian Institute of Technology Ropar (IIT Ropar) signed MoU on February 26, 2018. Basic objectives are for the joint research on present national issue on stubble burning, particularly valorization of agro waste.

STRENGTHON



IIT Ropar students organized an event "Strengthon" to showcase their strength and fitness. An open air event witnessed participants from all streams. Students competed for three body weight categories (Upto 66kg, Upto 74

kg and above 74 kg). Mr. Strengthon title bagged by Mr. Akash Mathwani. Under 66 Category, Mr. Arshdeep Singh Sandhu won gold. Under 74 categories, Mr. Arpit Sharma and Mr. Akash Mathwani won gold.

INTELLECTUAL PROPERTY RIGHTS



The Intellectual Property Rights Cell organized 2nd IPR awareness program on January 24, 2018. Mr. Amit Koshal, Head IP, Legasis services, Pune

gave an invited talk. An IPR quiz was organized for students of IIT Ropar. Mr. Kritgya Agarwal, Mr. Subham Badhyal, Mr. Ajinkya Vishnu Sirsat, Mr. Nagendra SM, Mr. Tanmay Khandel Wal, Ms. Tushita Rohilla, Ms. Neha Gupta, Mr. Ajay Kumar, Mr. Malkeet Singh got cash prizes and consolation prizes.

ENACTUS



Under Enactus IIT Ropar, students started an initiative "Vastra", to celebrate the joy of giving. They collected clothes donated by students, staff and faculty of IIT Ropar and distributed them among under-privileged people in Rupnagar.

LOHRI



Lohri was celebrated in the campus with great fervor and enthusiasm. Faculty, staff and students gathered around the bonfire and distributed sweets.

WOMEN'S DAY



Women's forum of IIT Ropar organized "International Women's Day" for the second time at IIT Ropar on March 8, 2018. Prof. Sudeshna Sinha, IISER Mohali was the Chief Guest on that day. IIT Ropar celebrated this day as a celebration of respect, appreciation and love towards women for their achievements at different platforms. The day promised to enhance the worldwide awareness about women, their rights, contributions, importance of education and pass the real message about the women's right and their place in society. This year the theme is "press for progress".

MINI MARATHON



To promote clean and healthy India (Swacch Bharat Swasth Bharat) IIT Ropar organised the first edition of mini-marathon in Ropar on January 27, 2018, where around 500 members including 332 runners from IIT Ropar enthusiastically participated in the event.

SWACCH CAMPUS



The Campus Cleaning Drive on the novel occasion of the 69th Republic Day of India was organized by NSS, IIT Ropar. The drive spread awareness about healthy practices.

गीत गायन प्रतियोगिता



भा.प्रौ.सं. रोपड़ के हिंदी प्रकोष्ठ द्वारा दिनांक जनवरी 23, 2018 को देशभक्ति गीत गायन प्रतियोगिता का आयोजन किया गया। इस प्रतियोगिता में छात्र, संकाय सदस्य, कर्मचारियों ने बढ़-चढ़ कर हिस्सा लिया। इस प्रतियोगिता में परीक्षक के रूप डॉ. यशवीश सिंह, सहायक

प्राध्यापक, भा.प्रौ.सं.रोपड़ थे। इस प्रतियोगिता में 5 कर्मचारी तथा 5 विद्यार्थियों को पुरस्कार हेतु चयनित किया गया। दिनांक जनवरी 26, 2018 को गणतंत्र दिवस के कार्यक्रम में कुल 10 विजेताओं को संस्थान के निदेशक प्रो. सरित कु. दास जी ने प्रमाणपत्र प्रदान किया। नराकास चण्डीगढ़ द्वारा दिनांक अक्टूबर 06, 2017 को हुई देशभक्ति गीत गायन प्रतियोगिता में आई.आई.टी रोपड़ के कनि. हिंदी अनुवादक श्री. गिरीश प्रमोदराव कठणे ने प्रतियोगिता के पहले दौर में सहभागिता ली। इस प्रतियोगिता में श्री गिरीश ने दूसरे दौर में अपनी जगह सुनिश्चित कर ली जिसे दिनांक दिसंबर 04, 2017 को दूरदर्शन केन्द्र, चण्डीगढ़ में आयोजित किया गया था।

MAIN CAMPUS



RESIDENTIAL BLOCK



BOYS HOSTEL



BOYS HOSTEL WING 1



LECTURE HALL



DINING HALL

The CMG (Construction Management Group) of IIT Ropar organized 360° vision- The future Campus Presentation. The presentation made all the faculty, students and staff to experience the campus landmarks and residential life. The sprawling campus is set over a vast scape of 500 acres of land, on the bank of river Satluj at the outskirts of City Ropar. The environment of the institute with a cluster of minimalistic structures amid trees, shrubs and well-laid out lawns provides a serene ambience.

NEW JOINING



Prof. Raj P. Chhabra
Visiting Professor & Head
Chemical Engineering



Dr. Resmi Sebastian
Assistant Professor
Civil Engineering



Dr. Saifullah Payami
Assistant Professor
Electrical Engineering



Dr. Chandi Sasmal
Assistant Professor
Chemical Engineering



Sh. Gurdip Singh Gulati
Officer on Special Duty
(Recruitment)



Ms. Kirti Dahiya
Campus Planner/ Architect
CMG