

# IIT ROPAR RANKED **TOP** IN INDIA IN THE TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS 2020

## DIRECTOR'S MESSAGE



Dear Friends,

The last few months brought about unexpected highs and lows in IIT Ropar campus. The highest point was obvious stunning performance at World University Ranking published by Times Higher Education and the most difficult time was the flooding of Ropar city and our campus. World Higher Education Ranking by THE is regarded as a very special type of ranking

in which research is given preference over other parameters. I am happy to inform you that IIT Ropar entered this World Ranking for the first time within a band of 300-350 rank. This is not completely an unexpected result in view of the fact that IIT Ropar has always been encouraging quality and impacts of the research rather than quantity. **In Prajwalam itself issue after issue with demonstrations we have shown that how we are top among the newer IITs in citations.** The current ranking is an indication of the approach that IIT Ropar has consciously adopted.

IIT Ropar was hit by a severe natural calamity last month. The floods in Punjab hit Ropar badly. Although IIT Ropar's constructions with special measures took care of flooding from the mighty Satluj, a small seasonal river Bhudki broke on the back side of our new campus and broke through our boundary wall and flooded our newly built campus on the 18th of August afternoon. IIT Ropar Staff, Students and Administration fought back bravely and restored the campus operations within a record time and the classes were restarted on 28th of August. I thank all our stakeholders who gave unmatched support to the institute at the times of such crisis and particularly the people of Ropar who extended unimaginable support to the Institute.

The last few months were also periods of a plethora of activities in the Institute such as Department of Mechanical Engineering and Department of Physics celebrated their Annual & Technical events, the Govt. of Punjab celebrated the World Environment Day at IIT Ropar with the Hon'ble Chief Minister inaugurating Guru Nanak Bagichi, International Yoga Day was celebrated and above all the 73rd Independence Day was celebrated in which the tallest and largest National Flag of Rupnagar District was hoisted at the IIT Ropar campus.

During this period some of the major research initiatives were launched. programme has been started between IIT Ropar and Swinburne University of Australia. During this period, the entire administration of IIT Ropar has moved to the new campus.

**In July, IIT Ropar got the Nation's First Indo-Taiwan Joint Research Centre on Artificial Intelligence and Machine Learning inaugurated. It is the first of its kind in the nation with a focus on promoting research interaction between Taiwan and India.**

Dear Friends, although we are hit by the recent floods, the spirit of IIT and its aspirations have not been deterred even to a slightest extent. We are even more determined to bounce back and establish ourselves as an Institute of global eminence. We are sure that we will get your support and co-operation in our endeavor.

Jai Hind.

## IIT ROPAR RANKED TOP IN INDIA IN THE TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS 2020



- Made it to the top 350 on debut in the list.
- Made debut In World University Ranking- Sharing Top Spot in India with IISc Bangalore.
- Got 100 in the research citation parameter

IIT Ropar has made an attractive debut in the Times Higher Education World University Ranking 2020 released on September 11. It has bagged the top rank among the 56 Indian institutes that have made it to the list of best universities of the world this year.



IIT Ropar is the highest-ranked Indian newcomer in this year's table, ensconced in the 301-350 bands with its very high score for citation impact and its reasonably strong showing on the industry income measure. Professor S.K. Das says, "The institute has established key areas of research focus of social and national relevance. This is a proud moment for our institute which is the result of the hard works of our faculty, students, scholars and staff. We have expanded and created infrastructure last few years, brought talents from the entire country and world and encouraged research initiatives."



Meanwhile, a new research collaboration with the Massachusetts Institute of Technology's Abdul Latif Jameel Water and Food Systems Lab and a new Indo-Taiwan Joint Research Centre on Artificial Intelligence and Machine Learning are already "showing results in terms of research quality and global outreach", he says.

Professor Das attributes these improvements to a string of government initiatives aimed at boosting the number of researchers and the quality of research in the country. "Higher education in India is undergoing substantial change," he says.

The ranking includes over 1,300 universities from 92 countries. Rankings are done across 13 performance indicators grouped into five areas: teaching (the learning environment), research (volume, income, and reputation), citations (research influence), international outlook (staff, students and research) and industry outcome (knowledge transfer).





## INDO-TAIWAN JOINT RESEARCH CENTRE ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING INAUGURATED AT IIT ROPAR



Adhering to the priority of India, IIT Ropar brought Nation's first Indo-Taiwan Joint Research Centre on Artificial Intelligence and Machine Learning. The centre was inaugurated by the Hon'ble Deputy Minister for Science and Technology, Taiwan, Dr. Yu-Chin Hsu, the Ambassador of Taiwan to India, H.E. Tien Chung-Kwang, and Dean of R&D, National Chung Cheng Univ., Taiwan, Dr. Shih-Ming Huang on 27th July 2019. It is focused on actionable programmes for the Indian AI ecosystem to contribute, collaborate and co-create. The centre is initially funded for a period of 3 years and is been coordinated by Prof. Pao-Ann Hsiung from CCU and Dr. Rohit Sharma from IIT Ropar.

The INDO-TAIWAN JOINT RESEARCH CENTRE ON AI & ML is a new and exciting collaboration between the Ministry of Science

& Technology, Taiwan, National Chung Cheng University, Taiwan and Indian Institute of Technology Ropar, India.

It will be the first of its kind in the nation with a focus on promoting research interaction between Taiwan and India. The common ambition is to provide an academic platform to strengthen the foundation of research in important applications, conduct research in AI & ML, promote student and faculty exchange programme and provide a platform for incubation.

The delegation of 26 persons comprising senior officials from Taiwan and officials from tech giants like SIMCO Electronics, BMC, NXP, Emerson, Intel, L&T, Infotech also visited. An MoU was signed with SIMCO Electronics and BMC after the inauguration. SIMCO Electronics is a leading provider of calibration and software services for

test and measurement of instruments used in technology organizations and BMC has unmatched experience in IT management, supporting 92 of the Forbes Global 100.

Ministry of Science and Technology also launched distinguished Doctoral Fellowship and India-Taiwan Research Cooperation. This Ph.D fellowship is to encourage outstanding students to pursue academic degrees in Taiwan and to deepen their understanding of Taiwan's academic environment, thereby enhancing exchanges and building friendships between Taiwan and India.

This centre has brought synergy to generate real-world impact through AI and Machine Learning. This bilateral centre is seen as one of the key milestones towards the internationalization of IIT Ropar campus.



## IIT ROPAR ORGANIZED OPEN HOUSE FOR SUCCESSFUL JEE ASPIRANTS



IIT Ropar successfully organized an Open House, JEE Counseling and Interaction meeting on 22nd June 2019, for the benefit of IIT aspirants, in particular, those who qualified in JEE (Advanced) 2019 successfully. More than 100 students and their parents actively participated in the counseling session. The session started with welcome note by the Associate Dean Student Affairs, Dr. C. C. Reddy.

Prof. S.K Das, Director IIT Ropar welcomed the students and parents to the permanent campus of IIT Ropar and congratulated the JEE (Adv.) qualified students for their commendable achievement. He gave an in-depth overview into the evolution of the IIT system in India including a brief talk on the 1st, 2nd and 3rd generation IITs, and IIT education in general. He also mentioned in detail about the philosophy of IIT's as they believe in not just creating an engineer by profession but a noteworthy personality. He emphasized that the UG education in IIT's is

at par with any of the global class institutions in the world. He also briefly spoke about the rapid strides being made by IIT Ropar on several fronts, including education, infrastructure, research, and about the startup culture and entrepreneurship opportunities at the institute.

This was followed by an introduction to unique curriculum at IIT Ropar by Dr. Anupam Agrawal, Associate Dean, UG and presentation on Clubs and Boards available at the institute by current students and members of Institute Student Mentorship Program (ISMP).

The inclusion of supernumerary seats for female students from 2018 as per the policy of the Central Government, aimed at bringing gender balance in the engineering education was highlighted. The girl students were also counseled by the JEE help desk team to fill as many choices as possible to maximize their



chances of getting a seat in IITs.

The Q & A session was highly interactive with an active participation of all the participants. There were several very pertinent questions put by the IIT aspirants and their parents regarding choice of branch, seat, suitable career choices, dual specialization, sub specialization, difference between regular and integrated dual degree programs, and suitability of female students to branches such as mining engineering along with several questions pertaining to choice and seat allotment in Joint Seat Allocation Authority (JOSAA). The participants expressed happiness on the initiative of IIT Ropar in educating the students as well the parents on various technicalities in IIT Education, JEE Admission Process and general queries on various academic programs. Post the completion of the session, the students and parents visited various departments and labs at IIT Ropar.





## IIT ROPAR LAUNCHED JOINT Ph.D WITH AUSTRALIA'S SWINBURNE UNIVERSITY OF TECHNOLOGY (MELBOURNE)



The Indian Institute of Technology Ropar and Swinburne University of Technology, Melbourne have entered into a Joint Ph.D programme agreement. The agreement was signed by the Director of IIT Ropar and Deputy Vice Chancellor (Research and Development) of Swinburne University, Australia. This is the first joint degree programme of IIT Ropar and has been spearheaded by its Office of International Relations and the Office of Research.

As per the agreement, both parties have agreed to co-operate and collaborate in the enrolment and supervision of

students in Joint Ph.D programme and would be conducted in the STEM research areas. According to this agreement, students from all areas of Science, Engineering & Technology can apply for Joint Ph.D programme. Prescribed number of candidates is 10 per year under this programme. The students will undertake alternate or sequential periods of research at Swinburne and Ropar. The schedule and length of these stays will depend upon the advances and evolution of their research, but in any case, up to 12 months of the candidature will be pursued in each of the institutions.

Similarly, students from Swinburne University will also be selected to research under IIT Ropar professors. Students selected from both the institutes will be given scholarships under which their research and international travel expenses will be covered.

## PROUD MOMENT- IIT ROPAR STUDENTS AWARDED WITH PRESTIGIOUS PRIME MINISTER RESEARCH FELLOWSHIP



Shriya Gumber



Shubhangi Nema



Ekta Gupta

Three students of IIT Ropar naming Ms. Shubhangi Nema and Ms. Ekta Gupta (pursuing M.Tech, CBME) and Ms. Shriya Gumber (Pursuing M.Sc, Department of Chemistry) have been selected for the prestigious Prime Minister Research Fellowship after a rigorous process. Prime Minister's Research Fellowship scheme aims to attract the talent pool of the country to doctoral programmes of Indian Institute of Science (IISc), Indian Institutes of Science Education & Research (IISERs) and Indian Institutes of Technology (IITs) for carrying out research in cutting edge science and technology domains, with focus on national priorities. The PMRF also offers suitable financial assistance to students that include a fellowship of INR 70,000 per month for the first two years, INR 75,000 per month for the 3rd year, and INR 80,000 per month in the 4th and 5th year.

Apart from this, a research grant of Rs.2.00 lakh per year will be provided to each of the Fellows for a period of 5 years to cover their academic contingency expenses and for foreign/national travel expenses.

## METRIX 2019



IIT Ropar organized the event METRIX (Mechanical Engineering Time for Research Ideas Exchange). The event provided a platform for exchange of research ideas not only among the peers of Mechanical Engineering Department, but also with the outside world. Students of class 11th from Government Boys and Girls Schools



of Ropar were invited and given the opportunity to explore the kind of research undergoing in the department. This was followed by, one of its kind, Panel Discussion event where the eminent faculty members of the department, Prof. Sarit K. Das (Director), Prof. Harpreet Singh, Assoc. Prof. Navin Kumar, Assoc. Prof. Himanshu Tyagi,

pondered over the questions and issues pertinent to research and development. Issues such as "How to adapt in research environment", "Why we always follow western research?" etc were raised, leading to interesting, inspiring and thought provoking exchange of ideas. The second day of the event was full of stage and poster presentations by the research scholars of the department where they showcased and exchanged their and their labs' research. Expert talks from faculty members within and outside the department have also been scheduled. The event was organized at the time of induction of Bachelors, Masters and Doctorate level students into the department fostering constructive interactions between the present and new members of the mechanical engineering community. The official website of Mechanical Engineering department has launched on 25th July, 2019.

## KNOW YOUR FACULTY: Dr. REET KAMAL TIWARI



Dr. Reet K. Tiwari (<http://www.iitrpr.ac.in/civil/reet>) joined IIT Ropar in March 2017 and is currently working as an Assistant Professor in Department of Civil Engineering, Indian Institute of Technology Ropar, Punjab, India. He received M.Sc. degree in Geology and

the M.Tech. degree in Remote Sensing and GIS, in 2007 and 2009, respectively. He earned PhD in 2015, on Remote Sensing based studies of Chhota-Shigri glacier, Himalayas from Indian Institute of Technology Roorkee. Broad areas of his research specialization are remote sensing and GIS, digital image processing, land use and land cover mapping, and information extraction techniques in the field of Glaciology and Natural Resources. In 2013, he joined Wadia Institute of Himalayan Geology, Dehradun, India, as a Scientist.

He has been actively involved in remote sensing (RS) as well as field based cryospheric, water resources and other RS application-based research. His research work focused on exploring the potential of satellite remote sensing data using advanced and novel image processing techniques for accurate mapping of debris covered glacier boundary. He has also worked in



the estimation of glacier deformation using satellite image correlation technique. He has utilized SAR data for many application-based researches such as land subsidence estimation, flood area mapping and soil health monitoring. Besides, he has conducted many field campaigns in different Himalayan region for his research. His current research interests include developing robust methodologies for water resources, natural hazard, environmental monitoring and climate change studies using remote sensing techniques.

Dr. Tiwari has also worked in planetary remote sensing which has led to new findings like neo-volcanism in the Erath's Moon. This work utilized data form the ISRO's Chandrayan-1, NASA's LRO, and Kaguya of JAXA missions to examine the characteristics and origin of multiple relatively fresh, coaxial, superposed viscous

flows spotted inside the Lowell crater on the far side of the Moon. This work provides evidences of likely volcanic activity in the region not too far in the past which are consistent with recent results that the Moon may not be internally dead, and thus have implications to the thermal history and present-day geologic nature of the Moon. After this work was published NASA also made similar discovery, further substantiating the evidences presented in this work.

At IIT Ropar, Dr. Tiwari established Geomatics Laboratory which is one the state of art facility. The Geomatics lab is equipped with all the modern instruments like DGPS, Total Stations, Terrestrial Laser Scanners (TLS), UAV and Remotely operated boat with echo sounder. The lab has the facility of processing all kind of geomatics data with specialized software like ArcGIS, ERDAS LPS, e-Cognition, Trimble Business Center, Real works, etc. Some of the software were provided through industrial partnership. Dr. Tiwari and his team is actively involved in organizing various Geomatics training activities in partnership with industries and academia. He is Member of several academic societies such as Indian Science Congress Association and Indian Society of Remote Sensing. He is also secretary for the Chandigarh Chapter of Indian Society of Remote Sensing.

## Worried about Type 2 diabetes? Your finger nails have all the answers

Shimona Kumar  
@timesgroup.com

Chandigarh: Finger nail clipper will soon reveal if you are Type 2 diabetic and how much damage this non-communicable disease has caused your bones.

A study by PGIMER Chandigarh and IIT-Ropar has shown how degradation of nails can reveal the severity of Type 2 diabetes, that is, whether it is severe or moderate. The study has been published recently in the International Nature group journal, the Scientific Reports.

According to a study in Lancet, an estimated 96 million people

### SURROGATE MARKER

> The research group has filed a patent for its finding that nails work as surrogate marker for bone health in Type 2 diabetic patients

> The only mechanism to find and confirm bone health-related problems among diabetics is bone biopsy



diabetics, there is bone fragility problem. Thus, if we screen nails for diabetes, it will also indicate the bone health," said Prof. Santley Khosla, endocrinologist in the PGIMER and one of the co-authors of the article.

The research group has filed a patent for its finding that nails

to find and confirm bone health-related problems among diabetics is bone biopsy. However, not many are willing to undergo this intervention procedure. "Diabetes gradually alters the material structural properties of tissues and prolonged hyperglycemia causes chronic damage

used to monitor the tissue damage in such patients," said Prof. Khosla. "So bone biopsy can be prevented using nails as surrogate markers." The researchers, conducted clinical and experimental studies in IIT Ropar and PGIMER, took a sample of 40 patients whose bone and nail samples have been tested.

"Previous medical literature has found a correlation between nail keratin and bone collagen (structural proteins). So we conducted clinical trials based on this on patients admitted in the trauma centre in the PGIMER with hip fracture and also having Type 2 diabetes," said Dr. Navin Kumar, associate profes-



Name

Dr. Debasish Basu

Designation

Head, Drug De-addiction & Treatment Centre, Department of Psychiatry, PGIMER Chandigarh

Topic of Talk

Technological advances in the prevention and treatment of addictions: setting up platforms for research collaboration

Delivered On

June 12, (Wednesday)

THE TIMES OF INDIA

## IIT researchers develop technique for early diagnose of Osteoporosis & breast cancer

TNN 1 Jul 2019, 11:39 AM IST



PATIALA: The IIT Ropar researchers had developed a non-invasive and non-ionizing depth resolved infra red imaging technique for early, safe and remote detection and evaluation of breast cancer and severity of osteoporosis disease in the human bone by detecting bone density variations.

In this novel active infrared thermography (IRT) technique, the researchers had carried out detailed analysis on bone having different density variations, with tissue, skin and muscle over layers.

"Osteoporosis has been characterized as a skeletal disorder of reduced bone strength that leads to an increased risk of fracture. As our age grows, early diagnosis of the disease is necessary to maintain good bone strength and to avoid unbearable fractures. While the disease cannot be reversed, it can be effectively

## IIT Ropar scholars' earphones make one aware of surroundings

Total Cost Of The Project Was ₹2,000 Only: Researchers

Bhaskar Khanna  
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Patiala: In February 2018, six teenagers were run over by a speeding train while walking on the railway track. They had their earphones on, so they could not hear the approaching train. It was not the first such case. To avoid such incidents, research scholars at IIT Ropar have developed a low-cost smart earphones that would not only amplify the surrounding sounds, but will also merge it with



The uniqueness of the project is the ability to separate noises and

These earphones can be controlled under which a particular sound can be enhanced by separating noise from the surroundings. Surrounding noises over earphone is nothing new. The uniqueness of this project is the ability to separate noises and listen to a particular one," said prof Sakari.

"We tried to make such an instrument at lower cost. The material used in the project had cost only Rs 900," said, Lakshya. The total cost of the project was

## AWARDS AND RECOGNITIONS



Dr. Chandi Sasmal

Dr. Chandi Sasmal, Assistant Professor, Department of Chemical Engineering, IIT Ropar awarded with Early Career Research Award from Science & Engineering Research Board (SERB), Govt. of India. The project is based on Study and Design of a Cost-Effective Prosthetic Mechanical Heart Valve. The aim of the project is to develop an artificial heart valve with the latest technology but in a cost-effective way.



Dr. Rajesh Kumar

Dr. Rajesh Kumar, Assistant Professor, Centre for Biomedical Engineering, Indian Institute of Technology Ropar (IIT Ropar) has been awarded the Ramalingaswami Re-entry Fellowship by the Department of Biotechnology (DBT), Ministry of Science and Technology for a period of 5 years. This is one of the most prestigious fellowship awarded by DBT at Scientist-D/ Assistant Professor level position. Dr. Kumar's research in biomedical photonics is one of the frontier areas of science and technology as light is rapidly becoming an important diagnostic tool and a powerful weapon for modern physician. This is also marked by the exponential growth of photonic-based technologies in the last decade applied to biology and medicine.

## INVITED TALKS

Name

Swami Atmashradhananda ji

Designation

Secretary of Ramakrishna mission, Kanpur.

Topic of Talk

Decoding the Human Mind and Destiny

Delivered On

13th June, 2019 (Thursday)



Name

Dr. Divesh Aggarwal

Designation

Assistant Professor in the Department of Computer Science, and a Principal Investigator in the Centre for Quantum Technologies at the National University of Singapore

Topic of Talk

New public-key cryptosystem whose security is based on the computational intractability

Delivered On

5th July, 2019 (Friday)



Name

Prof. Maxim Shoshany

Designation

Head, Environmental Sensing and Spatio-temporal Modeling Laboratory, Mapping and GeoInformation Engineering, Faculty of Civil & Environmental Engineering, Technion, Israel Institute of Technology.

Topic of Talk

Presentation/talk about his work at Technion

Delivered On

30th July (Tuesday)



## IIT ROPAR FIGHTS BACK FROM FLOOD WITH COURAGE AND COMPASSION

IIT Ropar has come to its testing time during the worst floods at Ropar in the last three decades. The heavy torrential rain in the hills during the last week of August severely affected the entire stretch of the Rupnagar District. The devastation and destruction were extremely severe. IIT Ropar which is situated near the bank of river Satluj affected severely. Though it was unprecedented as the campus was not hit by Satluj water directly but by the rivulets Bhudki and Sangraon tributary which flow on the south western side of IIT Ropar campus. The Bhudki Chau (Rivulet) and rivers were overflowing and through the Kherabad village, the rivulet breached into the campus from the northern end and the campus was flooded with huge water. The water has also entered the entire electrical substation inside the campus resulting in the shutting down of power supply to all the buildings in the campus as a precautionary step.



During the midnight the Director, IIT Ropar, Prof. S.K. Das in consultation with the Deputy Commissioner, Ropar made arrangements to break the compound wall towards the eastern side of the campus resulting in letting the water drain out of the campus. Some immediate steps were taken to evacuate the campus, as, institute declared suspension of classes from August 20-25, 2019. The students were evacuated and transferred to safer places. All the faculty and staff residing in the main campus quarters were also evacuated and taken to safer places. Also, IIT Ropar accommodated 250 local displaced residents of flood hit area in the hostels of IIT Ropar on upper floors.

The situation has come under control within 24 hrs, on the intervening night of August 19, 2019. Efforts put in line to resume the power and water supply in the campus from August 20, 2019. The rescue was a success as there was no causality or injuries. The flood has caused damages to some of the equipments placed on the ground floor.

All sections of people whether it is District administration, NGOs, Local Associates held their hands together along with the Government agencies to conduct rescue and relief operations. The Ministry of Human Resources was regularly in touch with the Director, IIT Ropar and has assured every little help in the hour of crisis. The Chief Minister Punjab, S. Captain Amarinder Singh also visited the flood hit IIT Ropar and helped our students to be placed in Chandigarh in Kisan Bhawan. IIT Ropar expresses sincere gratitude to MHRD, Government of India, residents of Ropar, NGOs, Local Administration and the State Government for their support in the hour of need. A preliminary report of the calamity has been submitted to the Ministry of Human Resource Development.



## DELEGATION VISIT TO UK



*Visit to the University of Bristol*



*Visit to Cardiff University*

An academic delegation of IIT Ropar led by Prof. S.K. Das (Director, IIT Ropar), Prof. Javed N. Agrewala, Dean, Research, IIT Ropar and Dr. Rohit Y. Sharma, Associate Dean, International Relations, IIT Ropar visited UK Universities from 2nd -9th July, 2019. The delegation aimed at collaborative opportunities with international universities. The delegation visited Cardiff University, University of Bristol, Queen's University, Belfast and Warwick Manufacturing Group with an objective to develop research collaboration with all above mentioned universities in the thematic research areas of mutual interest.

## IIT ROPAR AND PUNJAB GOVERNMENT STEPS UP COOPERATION ON WATER RESOURCES MANAGEMENT IN PUNJAB



IIT Ropar has stepped up cooperation with the Department of Science, Technology & Environment, Government of Punjab on water resource management in Punjab. The MoU was signed by Prof. Sarit K. Das from IIT Ropar and Sh. Rakesh Kumar Verma IAS, Principal Secretary, Department of Science, Technology & Environment, Government of Punjab to jointly address the issues of state importance pertaining to the environment, climate change and public health to achieve the overall goals and objectives of newly launched Mission Tandrast Punjab 2.0.

Both have expressed the desire to work together to promote collaborative programmes to make Punjab the R&I Hub and the healthiest State with healthy environment so as to enhance the adaptive capacity and resilience of the State towards emerging challenges.



## 73rd INDEPENDENCE DAY CELEBRATED



The Institute witnessed a unique celebration on this 73rd Independence Day: the unfurling of what is claimed to be the City's tallest national flag. The 30x20 ft flag was unfurled by Prof. Sarit K Das, Director, IIT Ropar. The 100ft tall flag post at IIT Ropar is near the historic Harrapan civilization in the city. The monumental flag will be flown at all times, and will be well-lit at night. It should be seen from the highway a far and remain visible at all times.

The flag is made of 100% knitted polyester-reinforced super-strong nylon webbing on all three sides & eyelets.

The project of installation of the national flag was conceived with a view to create a place of pride and honor to the supreme sacrifices made by the brave martyrs and patriotic countrymen that laid the foundation of a free and independent India.

After the director's address, the programme resonated with colourful cultural presentations. Tiny tots of the faculty and staff gave a riveting dance performance. After this, the venue reverberated with a soulful performance dished out by IIT Ropar's Alankaar Club.

### IIT ROPAR UNFURLED THE TALLEST FLAG IN THE CITY



### INTERNATIONAL DAY OF YOGA CELEBRATED AT IIT ROPAR

The 5th International Day of Yoga (IDY) was celebrated on 21st June, 2019 in the S. Radhakrishnan Block at IIT Ropar, bringing peace, harmony, happiness and success to every soul present. During the five day Yoga workshop, the students of IIT Ropar had the opportunity to participate in Yoga classes from the best Yoga teacher Dr. Rajiv Kumar Uppal, General Secretary - Chandigarh Yoga Association, who is practicing multiple styles of Yoga including Power Yoga and Kriya Yoga.





## FOREIGN INTERNSHIP

Attracting best offers from international universities, 39 B.Tech Second year and Third year students gone globally for summer internships this year. The summer internship (which requires at least 40 working days) gives them not only an opportunity to explore their area of interest but also in exploring research culture in top universities of the world. The Universities, students are visiting, include, Nanyang Technological University Singapore, Simon Fraser University Canada, Chinese University of Hong Kong, National Cheng Kung University Taiwan, National Chiao Tung University, National Chung Cheng University Taiwan, National Taiwan University, Diverta Co. Ltd Japan, Yokogawa Electrical Japan, University of Tokyo, National University of Singapore and many more.

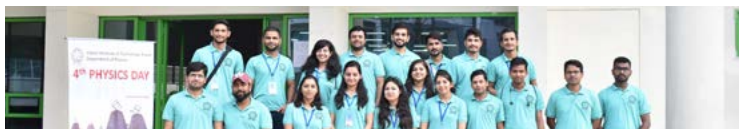
## "SCRATCH NEST" START-UP COMPANY INAUGURATED AT TECHNOLOGY BUSINESS INCUBATION CELL (TBIF), IIT ROPAR



A company named "SCRATCH NEST" inaugurated at the Technology Business Incubation Centre at IIT Ropar. The company is formed by three B.Tech students Mr. Jeevant Kumar Sah, Mr. Akshit Dangi and Mr. Amit Bhati. It is the first complete RFID Manufacturer Company with facilities like Gateway Reader, Mobile Application, Cross Platform GUI, Wifi Reader, Cloud Based Reader, Temperature sensing Tag with the most Secure System. The company is

also targeting to introduce First Time Mobile App to communicate with Fixed and Integrated Reader in India, that will eliminate the need of PC at all.

## PHYSICS DAY CELEBRATED



IIT Ropar celebrated 4th Physics Day on 10th August 2019. The event was comprised of a poster presentation session by the Research Scholars of the Institute. The Guest Speakers for the event were Prof. Arul Lakshminarayan, IIT Madras and Prof. Rajamani Vijayaraghavan, TIFR, Mumbai. The event was celebrated in the presence of the students, research scholars, faculty members and the functionaries of the Institute. Dr. Asoka Biswas, HoD Physics gave the opening and closing remarks in the event.

## SPIC MACAY



IIT Ropar organized a workshop on Madhubani Art in association with SPIC MACAY. Mrs. Anubha Karn is the instructor for this workshop, who is a Madhubani painting and paper mache artist with 15 years of experience in this field.

IIT Ropar also organized a Shehnai Performance by Shankar Brothers in association with SPIC MACAY. Sanjeev Shankar & Ashwani Shankar born in an illustrious lineage of musicians of the 'Banaras Gharana' which has given many outstanding musicians to the world of music. Their music has represented an unparalleled blend of traditional classical music with modern approach.



## HINDI KARYASHALA

### आईआईटी रोपड़ में हिंदी कार्यशाला सह प्रतियोगिता कार्यक्रम का आयोजन



मानव संसाधन विकास मंत्रालय, भारत सरकार के राजभाषा विभाग के दिशानिर्देशों के अनुसरण में भा.प्रौ.सं.रोपड़ में दिनांक 24 जून 2019 को हिंदी कार्यशाला सह प्रतियोगिता कार्यक्रम के अंतर्गत हिंदी कविता प्रतियोगिता का आयोजन किया गया। इस प्रतियोगिता में आईआईटी रोपड़ के विद्यार्थियों, कर्मचारियों, अधिकारियों ने बढ़-चढ़ कर हिस्सा लिया। इस प्रतियोगिता में विद्यार्थी एवं कर्मचारियों में से विजेताओं को पुरस्कार राशि प्रदान की गयी जो कि आनलाईन माध्यम से संबंधितों के खातों में जमा कर दी गयी। इस प्रतियोगिता में कर्मचारियों में प्रथम पुरस्कार

डॉ. महेन्द्र साकरे, द्वितीय पुरस्कार सुश्री प्रीतीन्दर कौर, तृतीय पुरस्कार सुश्री श्वेता रानी, प्रथम प्रोत्साहन पुरस्कार सुश्री हरप्रीत कौर तथा द्वितीय प्रोत्साहन पुरस्कार श्री दिवाकर शर्मा को प्रदान किया गया। साथ ही विद्यार्थियों में श्री अनूप पाठक को प्रथम पुरस्कार, श्री प्रणव जोहरी को द्वितीय पुरस्कार, श्री आदित्य सुर्यवंशी को तृतीय पुरस्कार, श्री शिवांग खरे को प्रथम प्रोत्साहन पुरस्कार तथा श्री पंकज कुमार को द्वितीय प्रोत्साहन पुरस्कार प्रदान किया गया। इस प्रतियोगिता में विद्वत् अभियानिकी विभाग के सहायक प्राध्यापक डॉ. सम दर्शी तथा संस्थान के



वरिष्ठ लेखापरीक्षा अधिकारी श्री बी.बी. करवल ने परीक्षक के रूप में सहायता प्रदान की। इस कार्यक्रम का संचालन डॉ. गिरीश प्रमोदराव कठाणे, कनि. हिंदी अनुवादक ने किया। इस अवसर पर लगवीश कुमार, हिंदी अधिकारी/उपकुलसचिव (भंडार एवं क्रय) ने सभी को हिंदी के उपक्रमों से जुड़ने तथा हिंदी में अधिक से अधिक कार्य करने की अपील की। सभी प्रतिभागियों ने बड़े ही उत्साह के साथ अपनी-अपनी कविताओं का गायन किया। उपस्थितों ने सभी के गीत गायन की प्रशंसा एवं सराहना की।





The Team Pehchaan-Ek-Safar, a registered NGO under the umbrella of IIT Ropar utilized the holidays of Pathshala students (underprivileged kids under Pehchaan-Ek-Safar) to the fullest not just by imparting bookish knowledge but also by involving them



in various extracurricular and sports activities. This year they launched a separate flagship program with the name “SunShine Masti”, a summer school for the underprivileged children living near IIT Ropar campus. It was a 2 months program (May-June) and volunteers and students within and outside of IIT Ropar who were doing their internship at IIT Ropar volunteered their services for this summer camp. A total of 52 volunteers registered to join this Summer Program and more than 90+ kids benefitted from the same.

### ENVIRONMENT DAY CELEBRATED AT IIT ROPAR



IIT Ropar in collaboration with EcoSikh team celebrated World Environment Day on 5th June, 2019 by planting a sacred forest of 550 trees of 40 native species at the campus in the name of Guru Nanak Dev Ji on his 550th GURPURAB.

The Faculty, Staff and students participated in the plantation drive and learnt the Japanese Miyawaki Technique from the experts and all had a lifetime experience to learn how to plant 550 trees in 160 square meter of plot.



### MARCHING FORWARD AS A TEAM- NEW JOINING



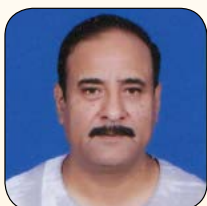
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