



Prajusalam

Indian Institute of Technology Ropar



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Director Message



As we come to the end of an eventful year, we are proud to share some significant achievements and milestones that have been accomplished by IIT Ropar in the past year. We are delighted to announce that Mr. Adil Zainulbhai has been appointed as the new Chairman of the BoG of IIT Ropar. This appointment is a testament to our institute's growing reputation and stature in the academic community.

Additionally, we were privileged to host the Honorable Governor of Punjab, Shri Banwarilal Purohit, during the launch of "SAMRIDHI," a Deeptech Startup Accelerator Program at our campus.

IIT Ropar has expanded its reach by securing office space at the IIT Alumni Centre, Bangalore (IITACB). This prominent hub for intellectual exchange and networking will enable us to connect with a wider network of alumni, industry partners, and academia in the region. Furthermore, we inaugurated a new center, the Centre for Engineering Education, with the objective of carrying out teaching, research, training, consultancy, and outreach/extension programs in Engineering Pedagogy, Curriculum Development, Education Technology, and Education Management.

In this quarter, Zeitgeist featured an impressive range of activities that included talks, workshops, and competitions. IIT Ropar served as a nodal center for the Yuva Sangam Phase 3 program, an initiative under Ek Bharat Shrestha Bharat by the Government of India. This program aims to promote cultural exchange and help students discover the diverse aspects of life, development, and achievements across the country.

IIT Ropar has proposed a Centre of Excellence on socio-environmental sustainability for river sand mining in Punjab. This research-based center is set to be established at the Department of Civil Engineering. Additionally, a team of researchers from IIT Ropar has discovered the presence of tantalum, a rare metal used in manufacturing electronic components, in the Sutlej river sand in Punjab.

We recently signed two significant MoUs: the first of which was signed with DAAD Germany to promote research, academic, and cultural cooperation between India and Germany. The second MoU was signed with the Ministry of Home Affairs (MHA) to conduct skill enhancing/training, capacity building, operational research, and technical studies at the national level.

We are thrilled to share these significant milestones achieved by our beloved institution during this year. These developments reflect our institute's unwavering commitment towards academic excellence, research innovation, industry collaborations, student engagement, faculty development, and community service initiatives that have earned us national recognition over time. We extend our gratitude to all our stakeholders for their constant support and look forward to working together towards a brighter future!

Jai Hind!!!

News, Events & Activities

IIT ROPAR's New Bog Chairman

Mr. Adil Zainulbhai has been appointed as a new Chairman of the Board of Governors (BoG) of IIT Ropar. Mr. Zainulbhai is a B. Tech. (1977 Batch - IIT Mumbai). He has contributed significantly to the growth of McKinsey in his 34-year-long stint with the company. He has returned to India after a very successful 25 years in the USA and eventually superannuated from McKinsey India as Chairman.



Mr. Adil Zainulbhai served as the Chairman of the Quality Council of India (QCI) and is currently the Chairman of the Capacity Building Commission (CBC), Government of India. He has worked with companies, non-profit organizations as well. His expertise has left an indelible mark on the Indian and global business landscape. He is on the Board of some of India's premier companies, such as Reliance Industries, L&T, and Cipla, to name a few.

Teachers' Day Celebration

IIT Ropar inaugurated the Centre for Engineering Education with an objective to carry out teaching, research, training, consultancy and outreach/extension programs in



Engineering Pedagogy, Curriculum Development, Education Technology and Education Management. The inauguration ceremony was graced by Prof. Rajeev Ahuja (Director, IIT Ropar), Deans, Associate Deans and all the Faculty members of the institute. Prof. Rajeev Ahuja shared his knowledge, expertise and experience on the topic of "Scientific research: Best practices, Collaboration, Funding and Publication in High Impact Journals".

■ Inauguration Of IIT Alumni Centre, Bangalore (IITACB)

IIT Ropar is delighted to announce its new presence at the IIT Alumni Centre, Bangalore (IITACB). IITACB, a hub for intellectual exchange and networking, has allocated office space to IIT Ropar. IITACB is dedicated to promoting innovation, entrepreneurship, and positive social impact through its various programs and initiatives. This office space at IITACB offers several exciting features and amenities, including meeting facilities, internship and recruitment, alumni engagement etc.



■ Meeting With International Students

A meeting was held to extend heartiest welcome to all new joining of international students in AY 2023-24. Prof. Rajeev Ahuja, Director and Prof. CC Reddy, Dean International Relations warmly welcomed all international students. Students shared their experience of being the part of IIT Ropar family. The meeting commenced with introduction of all foreign students. The basic objective of meeting was to have an ice-breaker for all new joiner so that they don't face any language barrier, homesickness and cultural variations.



■ Swachhta Pakhwada

IIT Ropar observed Swachhta Pakhwada under the aegis of a special campaign 3.0. The Deans, staff members and the students took the Panch-Pran and Swachhata Pledge for making our country clean and green.



IIT Ropar made efforts to promote Swachhata by participating in the "Ek Tareek - Ek Ghanta" campaign on October 1, 2023. To honor Mahatma Gandhi's birth

anniversary on October 2, 2023, the folks at IIT Ropar, including students, faculty, staff, and residents participated in a cleanliness drive 'Ek Tareekh Ek Ghanta' at Bara Phool. This initiative was part of the 'Swachhata Hi Seva' Campaign. IIT Ropar was involved in this noble cause, and the students' actively participated in achieving the goal of a 'Garbage Free India.' As part of the Swachhata Pakwada, the entire campus community was encouraged to commit one hour of Shramdaan for Swachhata.

■ Zeitgeist 2023

Zeitgeist commenced with the ceremonial lamp lighting and vote of thanks by the Director, IIT Ropar, Prof. Rajeev Ahuja. The fest was held from November 3-5, 2023. The theme "**A Retro Renaissance**" for zeitgeist 2023 was decided for the events and decoration. The fest showcased a diverse range of activities, including talks/workshops, and competitions organized by college clubs, attracting participants from various colleges.

The broad themes of the events were Music, Dance, Drama, Art, Food, Fashion, Comedy, Quizzing, Literary and Photography/Videography. The star night lineups' success set a positive tone for future iterations of Zeitgeist, showcased a mixture of creativity, talent, cultural diversity, and catering to various musical forms.



■ Vigilance Awareness Week 2023

IIT Ropar has observed Vigilance Awareness Week 2023, from October 30, 2023 to November 5, 2023 with the theme "Say No to Corruption; Commit to the Nation". The observance of the week commenced with the integrity pledge, which was administered to all the employees.



■ Unity Run

IIT Ropar organized the fifth edition of the IIT Ropar Unity Run to celebrate the International Year of Millets 2023 and commemorate the birth anniversary of Lohpurush Sardar Vallabhbhai Patel on the morning of October 28, 2023. The run had two segments: an 11 KM quarter marathon and a 5 KM fun run. Over 500 students, faculty members, staff members, and their families participated in the event.



■ Entering Amrit Kaal With a Development Dialogue

On the occasion of our futuristic entry in Amrit Kaal, IIT Ropar is delighted to announce a program on "A Development Dialogue in the Campuses of Higher Education Institutions in India," which is being organized.



It was honored to have Prof. Raghavendra P. Tiwari, the Vice Chancellor of the Central University of Punjab, Bathinda (Punjab), as our distinguished guest in this event to deliver a lecture and interactive session with the IIT Ropar community, shedding light on the vision and aspirations of Viksit Bharat @ 2047. Prof. Rajeev Ahuja, Director, IIT Ropar, graced the occasion.

■ A Course On Cyber Security

The 'Directorate General of Resettlement' (DGR) entrusted IIT Ropar to conduct a course for its JCOs/OR on Cyber Security. This is the first of its kind course allotted to any IIT. The course was organized under the CSE



Department with extensive lab work and hands-on training and commenced on October 9, 2023. It was scheduled to complete on December 29, 2023. Maj. Gen. V K Gudi, Chief Signal Officer, HQ Western Command was the Chief Guest accompanied by Lt Col Sanjay Sharma, Joint Director, DRZ (West).

Dr Atharva Poundarik, Associate Dean, International

Relations and Alumni Affairs and Coordinator of CoE-SARDS welcomed the guests and the participants. Dr. Basant Subba, Assistant Professor, CSE AND PI for the course gave feedback and charted a growth chart for the participants. The "Centre of Excellence for Studies and Applied Research in Defence & Security" (CoE-SARDS) organized a closing ceremony for the course and gave Certificates for its successful completion.

■ "Punjab Samvad - Shiksha Ka Sawasthaya Aur Samridhi"

IIT Ropar in collaboration with the Bhartiya Shikshan Mandal, organized a one-day program titled "Punjab Samvad - Shiksha Ka Sawasthaya aur Samridhi" on the campus premises. The program was initiated under the dynamic leadership of Prof. Rajeev Ahuja, Director of IIT Ropar.



■ Yuva Sangam Phase-3

IIT Ropar hosted the Yuva Sangam Phase-3, a Govt. of India initiative, under Ek Bharat Shrestha Bharat. It offers the chance to discover the diverse aspects of life, development, and achievements. The highly anticipated



Yuva Sangam Phase 3 flag-off ceremony took place at IIT Ropar marking the beginning of an exciting cultural exchange program. It aims to provide exposure tours to students from higher educational institutes and off-campus youngsters across the nation.

At the flag off ceremony, Dr. Dinesh Chadha MLA of the Rupnagar Assembly constituency appeared as the chief guest. He kick started the event by flagging off the program on November 27, 2023.

A group of 50 students from Karnataka embarked on a week-long journey to Punjab on December 16, 2023 for the Yuva Sangam Phase 3 program. Prof. Rajeev Ahuja, the Director of IIT Ropar, warmly welcomed the delegates to the land of warriors and heroes. As a gesture of welcome by IIT Ropar as a nodal center, the students from KV IIT Ropar performed a Giddha. During their stay, the students explored the rich heritage, history, and vibrant culture of the state through various cultural and educational activities.

The closing ceremony of Yuva Sangam Phase 3 was held December 21, 2023 at IIT Ropar.

■ Viksit Bharat @2047

IIT Ropar fraternity attended Viksit Bharat @2047, the workshop graced by the Hon'ble Prime Minister Sh. Narendra Modi. A virtual address was given by him, as he shared his vision and aspirations for Viksit Bharat @2047.



■ Technical Event "Metrix 5.0"

A two day technical event METRIX 5.0 "5th edition of Mechanical Engineering Time for Research Ideas EXchange" was organized at IIT Ropar by the department of Mechanical Engineering during November 03 - 04, 2023.



Several PhD Scholars presented the ongoing research activities of their research group via Lab Poster Presentations and Research Talks in this event.

Dignitaries from LAM Research, Celeb Technologies, TATA Advanced systems, L&T Defence, Oceaneering delivered keynote address in the event. The main theme of the event was to bring in Academia and Industry in a single stage, thereby bridging the gap between them.

■ Two Days Symposium On Complex Fluid Dynamics

The department of Chemical Engineering and department of Mathematics, IIT Ropar jointly organized Complex Fluid Dynamics Symposium: Rheology and Instabilities in



Complex Fluids. The aim of this two-day symposium is to

bring together leading researchers and academicians experts in the field of rheology and complex fluids to foster interdisciplinary discussions and collaborations.

■ Inauguration Of Annual Foundation School-I

The department of Mathematics, IIT Ropar inaugurated the prestigious Annual Foundation School-I on December 4, 2023. This four weeks long school was organised by the National Centre for Mathematics. The main objectives of AFS



are to bring up students with diverse backgrounds to a common level and help them acquire basic knowledge in the taught subjects required in Advanced Instructional Schools, which are aimed at the first and second year Ph.D. students. With nine basic subjects spread over AFS-I, II and III, each speaker at this congregation will deliver at least 6 lectures of 1 hour duration or 4 lectures of one and a half hour duration. They will be also conducting two tutorials of two hours duration each with the help of one or two course associates.

■ Materials Science Workshop

The department of Metallurgical and Materials Engineering successfully completed the XRD characterization technique for materials science workshop in collaboration with Malvern Pan Analytical December 11, 2023.



■ International Conference On Fundamental And Industrial Research In Materials

The Department of Metallurgical and Materials Engineering successfully organized the International Conference on Fundamental and Industrial Research in Materials from December 12-14, 2023 at IIT Ropar, with more than 150 delegates from academia (IITs, NITs, Pvt. colleges), research institutes (IGCAR, BARC, INST, CSIR, NML, etc.) and industry from all



over the world. It was an excellent opportunity for networking and collaborations for materials research.

■ Annual Conference On ICVGIP 2023

The Department of Computer Science and Engineering and Electrical Engineering at IIT Ropar organized an annual conference on ICVGIP 2023 which took place from December 15-17, 2023. The conference provided a platform for researchers and practitioners to present and discuss their latest findings in the areas of computer vision, graphics, and image processing. The conference began with tutorials and workshops on Day 1, followed by the main conference on Days 2 and 3. The main conference commenced with a keynote session by Dr. Richard Szeliski, a renowned computer scientist and researcher in the field of computer vision and graphics. Technical sessions included oral presentations and poster presentations. Day 3 featured a keynote session by Prof. R. Venkatesh Babu from IISc Bangalore, as well as paper presentations, poster presentations, and industry talks. Overall, ICVGIP 2023 provided a valuable opportunity for researchers and practitioners to share their latest findings in the field of computer vision, graphics, and image processing with a global audience.



IIT Ropar In News

1. The IIT Ropar has proposed a Centre of Excellence on socio-environmental sustainability for river sand mining in Punjab. The research based centre is proposed to be set up at IIT Ropar Department of civil engineering and is aimed at environmental preservation, water resource management, infrastructure protection, revenue generation and "improved public image of the government", among other potential "benefits".



2. A team of researchers from the IIT Ropar has detected the presence of tantalum, a rare metal used in manufacturing of electronic components, in the Sutlej river sand in Punjab. The discovery was made by a team headed by Dr. Resmi Sebastian, assistant professor at the institute's Civil Engineering Department. The researchers were working on an unrelated project when they stumbled upon the metal in samples collected from the Sutlej basin.



Industry-academia Collaborations

■ Mou Signing with DAAD Germany

IIT Ropar has signed the MoU with DAAD Germany (Deutscher Akademischer Austauschdienst/German Academic Exchange Service). The aim of the bilateral programme



is to promote R&D, academic and cultural cooperation between India and Germany, through various research and exchange opportunities. The exchange ceremony was held at the German Embassy in New Delhi on October 11, 2023 and attended by Prof. Rajeev Ahuja, Director, IIT Ropar and Dr. Atharva Poundarik, Associate Dean, International Relations and Alumni Affairs, IIT Ropar. Prof. Rajeev Ahuja formally exchanged the MoU document with the DAAD Deputy Secretary General, Dr. Michael Harms, in the presence of the Directors and representatives from other IITs. Furthermore, deliberations between DAAD and IIT delegates, to enhance Indo-German higher education cooperation, were also held in the presence of the German Ambassador, H.E. Dr. Ackermann.

■ Mou Signing With Ministry Of Home Affairs

Prof. Rajeev Ahuja, Director, IIT Ropar, through its CoE for Studies and Applied Research in Defence and Security and Shri Taj Hassan, IPS, Director General Fire Services, Civil Defence and Home Guards,



Ministry of Home Affairs (FS CD HG, MHA) signed the MoU to conduct skilling/training, capacity building, operational research and technical studies at the national level. The objective of this seminal partnership is to bolster national and internal security mechanisms through technological interventions.

DG FS CD & HG is mandated to frame policies, carry out operational research, provide technical training, advise Central Ministries / State Governments, coordinate, supervise and issue guidelines concerning raising, training & equipping of Civil Defence, Home Guards and Fire Services on behalf of the Ministry of Home Affairs.

Awards And Recognitions

1. Prof. Navin Kumar, Department of Mechanical Engineering granted of patent titled "An Apparatus for Mechanical Characterisation of a Soft Tissue".



2. Dr. Mudasir Ahmad Ganaie, Assistant Professor, Department of Computer Science & Engineering appointed as Editorial Board Member of Neural Networks, Elsevier (I.F. 7.8) He will be serving as the action editor of the Neural Networks, Elsevier.



3. Dr. Srivatsava Naidu, Assistant Professor, Department of Biomedical Engineering granted of patent titled "Method of Synthesis of Chitosan based N-Halamine".



4. IIT Ropar has been honored with the coveted "IIRF Education Impact Award 2023" at the FWA's 6th Industry - Academia Integration Conclave -2023, acknowledging the significant contribution made by the institute in the category of **Leading Technical Institute for Research, Innovation & Internationalization**. The chairperson of AICTE presented the Award to Prof. Rajeev Ahuja in a ceremony.



5. Dr. Abhinav Dhall, Associate Professor, Department of Computer Science & Engineering received ten-year technical impact runner-up award at 25th ACM international conference on multimodal interaction 2023. This is in collaboration with colleagues at the Australian National University and the University of Canberra.



6. Dr. Mudasir Ahmad Ganaie, Assistant Professor, Department of Computer Science & Engineering has been appointed as an editorial board member of Computers and Electrical Engineering, Elsevier (I.F. 4.3). He will be serving as the Associate Editor of the Computers and Electrical Engineering, Elsevier.



7. Mr. Rohit Dahiya, PhD scholar, Department of Physics, IIT Ropar received Best Poster Award in 67th DAE-Solid State Physics Symposium organized by Bhabha Atomic Research Centre (BARC) and sponsored Board of Research on Nuclear Science (BRNS), Govt. of India. The title of his poster was "Investigating the Influence of Thin Film Thickness on Persistent Photoconductivity in β -Ga2O3".



8. Mr. Gulshan Singh, Senior Research Fellow from the Department of Chemistry, received the prestigious Best Poster Award at the international conference on Modern Trends in Inorganic Chemistry held at the Indian Institute of Science in Bengaluru, India.



9. Ms. Shrabanti Halder, PhD scholar, Department of Mechanical Engineering received the 'Best Oral Presentation' award at the 12th Asian Thermal Spray Conference (ATSC-2023) held at IIT Madras. The conference was jointly organized by IIT Madras, Asian Thermal Spray Society and Indian Thermal Spray Association. Title of the presentation was: "Corrosion and cavitations analysis of NiCr and Hastelloy-based HVOF-sprayed WC coatings in the marine environment".



10. Ms. Pooja Chahal, PhD scholar, Department of Chemistry received the Best Poster Award at the Theoretical Chemistry Symposium (TCS 2023) held at the Chemistry Department of IIT Madras. This is a great achievement for Ms. Chahal and a testament to her hard work and dedication to her research.



AWaDH – Techonoly Innovation Hub

IIT Ropar Technology and Innovation Foundation (iHub – AWaDH) for Agriculture and Water Technology Development Hub is established by the Department of Science & Technology (DST), Government of India, at the IIT Ropar in the framework of National Mission on Interdisciplinary Cyber Physical Systems (NM – ICPS) with time-bound predefined deliverables.

Events/Activities/Seminar happened in September to December 2023

■ ATMAN - Agri Startup demo And Funding

Commemorating Innovation by collaborative efforts of Four IITs together at the ATMAN Event - Revealing the Future of Agriculture has



been hosted by the Department of Science and Technology (India DST) in partnership with iHub - AWaDH at IIT Ropar, TIH-IoT, IITI DRISHTI CPS FOUNDATION, IIT Kharagpur AI4ICPS IHub Foundation. The event was inaugurated by Dr. Jitendra Singh, Hon'ble Minister of Science and Technology, Government of India. The event focused on supporting AgriTech Startups working in the deep tech space and all the four TIHs at IIT Ropar, IIT Bombay, IIT Kharagpur and IIT Indore came with a kitty of 20 Cr.

■ SPRINT Strategic Program for Research Innovation and Next-Gen Tech-Commercialisation North Edition: Jammu & Kashmir

A significant collaboration with the Sher-e-Kashmir University of Agricultural Sciences and Technology of



Kashmir (SKUAST-K) for a transformative two-day event aimed at propelling startups and technological advancements was organized in the agricultural landscape of Jammu and Kashmir Union Territory under SPRINT Initiative to tap and support the startup and entrepreneurship talent. AWaDH went with a kitty of 25 lakhs to support innovation and entrepreneurship in J&K.

■ SPRINT Strategic Program for Research Innovation and Next-Gen Tech-Commercialisation WEST Edition: KARAD

Agripreneurs from the western region were making remarkable strides at the Krishi Vigyan Vidhi (KVV) 1.0 Startup Conclave hosted at Krishna



Vishwa Vidyapeeth in Karad, Maharashtra. This event was a crucial part of the SPRINT West Edition, co-organized by iHub - AWaDH at IIT Ropar and Krishna Vishwa Vidyapeeth.

■ SPRINT Strategic Program for Research Innovation and Next-Gen Tech-Commercialisation East Edition: ODISHA

IIT Ropar took a significant step towards fostering innovation in agriculture with the successful culmination of the , held in partnership with AIC-Nalanda Institute of Technology Foundation and Startup Odisha to support startup and entrepreneurial ecosystem in East.



■ 3rd National Workshop of Technology Innovation in Cyber-Physical Systems (TIPS) organized by the DST, GoI

AWaDH represented its technologies, startups and innovative strength at 3rd National Workshop on Technology Innovation in Cyber-Physical Systems (TIPS 3.0) organised by DST, GoI under the ambit of NM ICPS at IIT Kanpur



■ IIT Ropar TIF AWaDH part of Delegation to Sweden organised by Confederation of Indian Industry (CII) and Sweden-India Business Council (SIBC)

AWaDH had the privilege of being part of the Confederation of Indian Industry Delegation to Sweden. AWaDH took part in engaging discussions with various organizations, exploring exciting collaborative opportunities in the field of Cyber Physical Systems to understand the Sweden Innovation ecosystem and explore synergies for the same.



■ Fireside Chat on the pivotal role of Anusandhan National Research Foundation and the government's impact on fostering research, innovation, and entrepreneurship in our nation & Prelude to SAMRIDHI Unveiled By Dr Akhilesh Gupta, Secretary (SERB)

AWaDH organised a Fireside Chat with Dr. Akhilesh Gupta, Dr. Dhiraj Kumar Mahajan and Dr. Amit Singh, deliberating on the pivotal role of Anusandhan National Research Foundation and the government's impact on fostering research, innovation, and entrepreneurship in our nation. This event was set as a prelude to the upcoming SAMRIDHI Event.



■ School CPS Initiative: Celebrating Innovation at Jawahar Navodaya Vidyalaya Rakoli, Mohali

AWaDH supported the awe-inspiring innovation drive of school children organised by Jawahar Navodaya Vidyalaya Rakoli, Mohali, as part of the Cluster Level National Children's Science Congress Initiative.



■ CPS Outreach & Awareness Program At IIT Ropar

AWaDH organised a CPS outreach program to accelerate the learning and innovation in action, as the students from CHANDIGARH UNIVERSITY explored our cutting-edge labs and facilities at IIT Ropar.



■ SAMRIDHI Conclave 2.0 Strategic Acceleration for Market, Research, Innovation & Development': a Holistic Initiative for ICPS Startups: a premier deeptech startup event

SAMRIDHI 2.0 was inaugurated at the IIT Ropar, underscoring a commitment to 'Strategic Acceleration for Market, Research, Innovation & Development: a Holistic Initiative for ICPS Startups' graced by **Shri Banwarilal Purohit, Hon'ble Governor Punjab and Administrator, UT, Chandigarh** where AWaDH came with 5 Cr kitty to support and accelerate the startup ecosystem in the country in the domains of Agriculture and Water.



■ School CPS Initiative: CPS School Outreach Program for Navodhya School Chandigarh

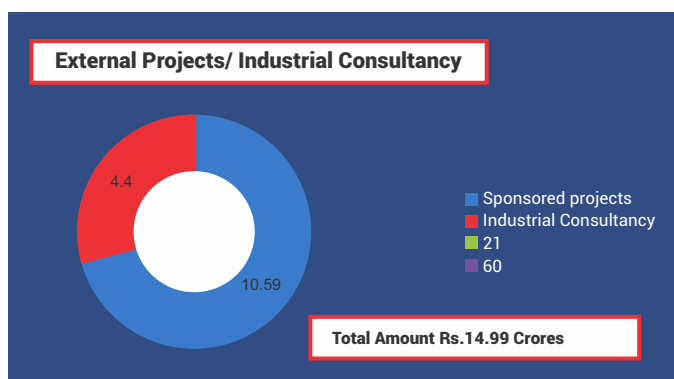
AWaDH hosted young bright minds from Navodhya School Chandigarh as part of the iHub – AWaDH at IIT Ropar CPS School Outreach Program to spur research, innovation and entrepreneurship spirit amongst the school children.



Industrial Research & Development

Sponsored Projects & Consultancy Jobs Undertaken Through R&D Unit during September-December 2023

- 21 Sponsored Projects with a total sanctioned value of Rs. 10.59 Cr
- 60 External Consultancy Projects with a total sanctioned value of Rs. 4.40 Cr



Technology Business Incubator Foundation

Milestones Achieved By Technology Business Incubator Foundation (TBIF)

- Dr. Atharva Poundarik, Faculty in-Charge and Director, IIT Ropar TBIF, delivered an insightful session on "Nurturing Startups in a Higher education Institute: Opportunities and Challenges" at National Symposium organized by IIC and CU Panjab Research and Development Foundation. The session was attended by several startups & innovators from across the region.



- Dr. Atharva Poundarik, Faculty in-Charge and Director, IIT Ropar Technology Business Incubator Foundation, participated in a panel discussion on "Role of Innovation Catalysts in Fostering Innovation, R&D, Capacity Building: Challenges & Achievements" at the Brainstorming Workshop on Geospatial Innovation Ecosystem "Manthan", which was held in Hyderabad on 28-29, 2023, and was organised by the Survey of India, Department of Science and Technology.



- TBIF taking a lead towards international regional training program successfully organized a five-day training program on the topic of "Role of Business Incubators in Encapsulating Sustainable



Development: A TVET Perspective" on 7th September 2023 where international participants from 16 different countries visited Technology Business Incubator Foundation at IIT Ropar. Dr. Atharva Poundarik (Faculty in-Charge and Director, TBIF- IIT Ropar) and his team welcomed all the delegates and informed about the establishment process and functioning of the Technology Business Incubator at IIT Ropar. Delegates interacted with most of the incubated startups and learnt about their journey and products. The visiting team heartfully praised the vision of the institute and efforts of IIT Ropar - TBIF towards building an entrepreneurial culture on campus and a deep-tech startup ecosystem in the region.

- IIT Ropar- TBIF showcased its work in the event "North Tech Symposium 2023 (Synergy in Research, Development, and Innovation for Modernization of the Military)" held at IIT Jammu from September 11 - 13, 2023. The event was



graced by the honourable Raksha Mantri Shri. Rajnath Singh Ji, Dr. Jitendra Singh, Minister of State for Science and Technology Personnel, Public Grievances, Pensions, Atomic Energy, and Space; and Shri. Manoj Sinha Ji, Lieutenant Governor of Jammu and Kashmir. Gen. Anil Chauhan, Chief of Defense Staff of the Indian Armed Forces; Lt Gen Upendra Dwivedi, General Officer Commanding-in-Chief Northern Command Indian Army, along with many other senior officials of the Indian Army, visited the stall of IIT Ropar- TBIF and appreciated the products displayed by our incubatee startups, such as GIS & Artificial Intelligence backed software for border/critical zones security and surveillance, military-grade PCBs, Gyro chassis for stabilization of gunner sight in T-90 battle tanks, Ammunition Defender Glove, FICS Sifcon Panels, bullet-proof concrete, etc.

■ TBIF achieved new milestones in the area of innovation as one of their incubated startup Ares Systems Pvt. Ltd., won the Dassault Systèmes pitching competition at the 3D Experience Forum India 2023 in Bangalore. They have been selected for the Dassault global competition to be held in Paris.



■ Another incubated startup of TBIF "Neontram Pvt. Ltd", successfully launched their flagship product, Formula Milk Dispenser (NeoFMD). The formula dispenser prepares all types of formula to the ideal consistency based on the formula-to-water ratio indicated on the package of your formula that will make sure the baby is getting the right amount of nutrients every time with this dispenser. The product is available on Amazon: <https://amzn.eu/d/3BP5aoH>



Infrastructure Development

IIT Ropar started functioning in the academic year 2008-09 from the campus of IIT Delhi, the mentor institute. The foundation stone was laid on 24 February 2009 for the permanent campus of IIT Ropar. IIT Ropar was initially registered under the Societies Registration Act 1860 on 29 July 2008. Subsequently, the Institute was established by an Act of Parliament, namely, the Institutes of Technology (Amendment) Act 2012 (No. 34 of 2012). In just 15 years, the institute stands tall as one of the fastest-growing young-generation IITs in the country. The Institute has 25 Lacs Sq.ft. built-up area and constructed in three phases i.e. Phase IA, IB and IC.

About Phase IC

- The construction work has been entrusted to CPWD and construction of Phase IC has been done by M/s NCC.
- The sub phase IC having a plinth area of 74,288 sqm has been constructed with an estimated cost of Rupees 387 crores. The work has been completed on June 30, 2023.

Building to be Inaugurated: Super Academic Block (SAB):

The Institute Super Academic Block (building to be inaugurated) is a testament to architectural innovation and academic excellence. This building has 44,253 square meters build up area and housing seven vital departments of the Institute.



Main Features of SAB:

Captivating Central Courtyard

- Features a central courtyard with a serene water body
- Tensile fabric structure ceiling for shade
- Touch of artistic flair

Student-Friendly Amenities

- Café offering various tea, coffee & food selections
- A space for relaxation and rejuvenation

Research Excellence and Inspiring Views

- Equipped with top-notch research facilities
- Ensuring academic research and innovation leadership
- Balconies offering breathtaking panoramic views
- Adding inspiration to the academic environment

Brahmaputra Hostel

The Hostel has a capacity of 520 Students (combination of single and triple seated rooms) along with common and recreation spaces for students. The area of the building is 14850 sqm

Type 6 Residences (24 Nos.)

Six blocks of Type 6 residences having 4 apartments in each block (G+1) with a plinth area of 5490 sqm have been constructed.

Type 5 Residences (24 Nos.)

Three blocks of Type 5 residences having 8 apartments in each block (G+3) with a plinth area of 5441 sqm have been constructed.

■ Type-3 Residences (24 Nos.)

Two blocks of Type 3 residences having 12 apartments in each block (G+2) with a plinth area of 2896 sqm have been constructed.

■ Other Buildings

- 3 electric substations to cater to the power supply requirement of Phase 1C have been constructed. Its total plinth area is 1124 sqm.
- A Liquid Nitrogen Plant building having an area of 234 sqm has been constructed.
- In addition to the buildings, ancillary external development works have also been done in the Phase 1C.

International Relations & Alumni Affairs

■ Workshops

1. CCU Taiwan: A delegation from National Chung Cheng University (CCU), Taiwan visited IIT Ropar on November 7, 2023. The



delegation comprised seven delegates led by Dr. HSIUNG Pao-Ann, Chief Information Officer, Director, Taiwan-India Joint Research Centre on AI. All delegates had a meeting with the Director and Deans of IIT Ropar followed by the joint workshop on AI. The major discussion areas were to promote research on AI, Image processing, IoT, Business & Accounting and to promote the collaborative efforts between the two countries in terms of research and industry.

1. Online Collaborative Research Workshop in Biomaterials: In collaboration with Dalhousie University, IIT Ropar has conducted an Online Roundtable Research Workshop in Biomaterials on November 17, 2023. In this workshop various major areas like Biomaterials, Drug Delivery, Medical devices for reconstructive and regenerative medicine, cancer, Implants etc. were covered.

2. Online Collaborative Research Workshop in Biomaterials: In collaboration with Dalhousie University, IIT Ropar has conducted an Online Roundtable Research Workshop in Biomaterials on November 17, 2023. In this workshop various major areas like Biomaterials, Drug Delivery, Medical devices for reconstructive and regenerative medicine, cancer, Implants etc. were covered.

■ Meetings for collaboration:

1. Kaohsiung Medical University, Taiwan: A delegation from KMU, Taiwan visited IIT Ropar on November 17, 2023. The delegation comprised of the following members: Prof. Chai-Lin Kao (Prof. Kao), Shih-Shin Liang (Prof. Liang), Chien-Hung Li (Prof. Li). During their visit they met with the faculty members of the Chemistry Department and had discussion on medicinal and applied chemistry for possible collaboration.

2. Dalhousie University

Canada: Prof. Balakrishnan Prithiviraj, Assistant Vice-President (Global Relations) from Dalhousie University Canada visited IIT Ropar on December 6, 2023. He had a meeting with A Dean- IR, A Dean CEOA, faculty members of CSE, EE etc. to discuss



Joint Ph.D, Short term Course, Joint workshops, Funding, Startup mobility to strengthen partnership between Dalhousie University and IIT Ropar.

3. Rensselaer Polytechnic Institute, USA: Prof. Deepak visited IIT Ropar on December 12, 2023 for exploring possible avenues of collaboration with IIT Ropar

4. Canberra University Australia: Dr. Ram visited IIT Ropar on December 15, 2023 and he had a meeting with Associate Dean (IR) and Dean (PG & Research) regarding discussion on Joint Ph.D programme between IIT Ropar and Canberra University

5. NC State University: IR office had an online meeting with Prof. Paul D. Franzon, Director of Graduate Programs, NCSU, Raleigh. During the meeting Prof. Paul has shown interest to have Joint Ph.D programme with IIT Ropar.

6. Official Chinese Certificate Exam TOCFL:

Test of Chinese as a Foreign Language (TOCFL) had been conducted in IIT Ropar for the second time in November 2023. There were



11 students from IIT Ropar and 13 students from Chandigarh University and Soolini University appeared for the exam.

7. International Relations Conclave 2023 at IIT Roorkee: A-Dean, International Relations (Dr. Atharva Poundarik) and Deputy Registrar, International Relations (Mr. Mukesh Kumar) attended IRC 2023 organized by IIT Roorkee on November 6, 2023.

8. Meeting with Minghsin University of Science and Technology, Taiwan: An online meeting was conducted with Minghsin University of Science and Technology, Taiwan regarding exploring the possible ways of collaboration in the area of semiconductors.

■ Alumni E-Meet

The Alumni Relations Cell, IIT Ropar conducted an Alumni e-meet on December 16, 2023. It was an open virtual event, attended by around 8 alumni from all the batches and several students.



Event Introduction:

1. Address by the Associate Dean of International Relations and Alumni Affairs.
2. Introduction by attendee alumni members who helped the students get to know their Alumni
3. An interaction session with the students which include discussions on various career paths, industries, remembering old days etc.
4. The session concluded with some fruitful guidance tips and learnings from the alumni.

■ PIWOT (Pan IIT World of Technology)- 2023

PI-WOT Global Technology Summit 2023 was held on December 8-9, 2023 in Bangalore with the aim to explore how technology can revolutionize sectors and government policies, contributing to a sustainable and technologically advanced future. The two-day hybrid event, attended by more than 5000 people, brought together tech leaders, policy makers, academic experts, IITs directors, innovators and investors for discussions on 'fostering innovation for societal change.' The summit was organized by Pan IIT Alumni and their primary objective is to build the brand IIT, by creating awareness about activities and achievements within the IIT ecosystem, i.e., of the IITs, the students and student bodies, the incubators and e-cells, the Alumni Associations and the Alumni.



During this visit, Dr. Atharva Poundarik (Asso. Dean of IR&AA) and Dr. Puneet Goyal (Alumni Coordinator) attended various sessions related to research collaborations, strengthening alumni associations, discussions and workshops, roadshows to showcase innovations, etc. There were discussions to form active working groups in various domains with the objective to enhance cooperation and collaboration between all IITs and the role of Alumni in the broader IIT ecosystem. It was indeed an incredible meet among all 23 IITs.

राजभाषा गतिविधियाँ

■ कवि सम्मेलन "गुरु सम्मान उत्सव" का आयोजन

हिंदी प्रकोष्ठ, भा.प्रौ.सं. रोपड़ ने ०५ सितंबर शिक्षक दिवस के उपलक्ष्य में संस्थान में सुप्रसिद्ध कविगणों की प्रस्तुति के सानिध्य में गुरु सम्मान उत्सव शीर्षक से कवि सम्मेलन का आयोजन संपन्न किया। इतने भव्य स्तर पर कवि सम्मेलन का आयोजन करना यह हिंदी प्रकोष्ठ के लिए प्रथम अवसर था।

इस कवि सम्मेलन में कविरत्नों के रूप में, कवयित्री मुमताज नसीम, श्री हेमंत पाण्डेय, श्री स्वयं श्रीवास्तव तथा श्री अमन अक्षर विशेष रूप से आमंत्रित थे।



■ हिंदी पखवाड़ा २०२३ का आयोजन

भारतीय प्रौद्योगिकी संस्थान रोपड़ ने हिंदी दिवस के उपलक्ष्य पर 15 दिवसीय हिंदी पखवाड़ा 2023 का आयोजन सफलतापूर्वक संपन्न किया। यह पखवाड़ा 13 सितंबर 2023 से 27 सितंबर 2023 तक आयोजित किया गया था। इस पखवाड़ा के दौरान संस्थान के विद्यार्थियों के लिए कुल 04 प्रतियोगिताएं, संस्थान के संकाय सदस्य एवं कर्मचारियों के लिए कुल 07 प्रतियोगिताएं,



सुरक्षा/सफाई/परिचारकों के लिए 01

प्रतियोगिता तथा संस्थान सदस्यों के बच्चों एवं परिवारजनों के लिए 01 प्रतियोगिता आयोजित की गई थी।

हिंदी पखवाड़ा 2023 का उद्घाटन समारोह दिनांक 13 सितंबर 2023 को मुख्य अतिथि प्रोफेसर बैजनाथ प्रसाद, विभागाध्यक्ष, हिंदी विभाग, पंजाब विश्वविद्यालय, चण्डीगढ़ तथा संस्थान के निदेशक प्रोफेसर राजीव आहूजा जी की गरिमामयी उपस्थिति में संपन्न हुआ।

■ नगर राजभाषा कार्यान्वयन समिति रुपनगर की बैठक में संस्थान पदाधिकारियों की सहभागिता

नगर राजभाषा कार्यान्वयन समिति रुपनगर की वित्तीय वर्ष २०२३-२४ की द्वितीय अर्धवार्षिक बैठक दिनांक २७ अक्टूबर, २०२४ को संपन्न हुई। इस बैठक में नराकास रुपनगर के अंतर्गत आनेवाले सभी बैंक, उपक्रमों एवं संस्थानों के पदाधिकारियों / कर्मचारियों ने अपनी सहभागिता सुनिश्चित की।

इस बैठक में भारतीय प्रौद्योगिकी संस्थान रोपड़ की ओर से डॉ. अरुण कुमार, डॉ. हिमांशु त्यागी, श्री विपिन कुमार तथा डॉ. गिरीश प्रमोदराव कठाण ने सहभागिता

ली। डॉ. अरुण कुमार (माननीय निदेशक, भा.प्रौ.सं. रोपड़ द्वारा नामित) ने इस अवसर पर उपस्थित सभी बैंक, उपक्रमों एवं संस्थानों के पदाधिकारियों / कर्मचारियों को अपने-अपने संस्थानों में राजभाषा हिंदी के समुचित विकास की दिशा में कार्य करने हेतु आवश्यक कदम उठाने पर अपने विचार व्यक्त किए।



■ हिंदी टाइपिंग के 66वें सत्र (अगस्त २०२३-जनवरी २०२४) के पंजीकृत सदस्यों हेतु ४ दिवसीय आंतरिक प्रशिक्षण कार्यक्रम का आयोजन

भारतीय प्रौद्योगिकी संस्थान रोपड़ के 05 सदस्य केंद्रीय हिंदी प्रशिक्षण संस्थान, नई दिल्ली द्वारा आयोजित किए जा रहे हिंदी शब्द संसाधन (हिंदी टाइपिंग) प्रशिक्षण कार्यक्रम में 66वें सत्र हेतु पंजीकृत किए गए। इस प्रशिक्षण कार्यक्रम की अवधि 01 अगस्त 2023 से जनवरी 2024 तक है तथा इसकी परीक्षा माह जनवरी 2024 में प्रस्तावित है।



इस सत्र की परीक्षा को केंद्र में रखकर संस्थान के पंजीकृत सदस्यों की तैयारी को बेहतर बनाने के उद्देश्य से हिंदी प्रकोष्ठ ने दिनांक 04, 05, 06 और 07 दिसंबर 2023 को 04 दिनों के आंतरिक प्रशिक्षण कार्यक्रम का आयोजन किया। इस प्रशिक्षण कार्यक्रम में प्रशिक्षक के रूप में श्री अरविंद कुमार, सहायक निदेशक, हिंदी टंकण एवं आशुलिपि प्रशिक्षण केंद्र, हिंदी शिक्षण योजना, राजभाषा विभाग, गृह मंत्रालय, भारत सरकार, चण्डीगढ़ केंद्र को आमंत्रित किया गया था।

दिनांक 04 दिसंबर 2023 को संपन्न आंतरिक प्रशिक्षण कार्यक्रम के प्रथम सत्र में प्रशिक्षक महोदय ने प्रशिक्षणार्थियों को हिंदी कुंजीपटल का परिचय एवं इसकी व्यावहारिकता, दिनांक 05 दिसंबर 2023 के द्वितीय सत्र में मुख्य रूप से व्याकरणिक चिन्हों का अभ्यास, गति अभ्यास आदि, दिनांक 06 दिसंबर 2023 के सत्र में सारणी बनाना तथा सारणी बनाते हुए ध्यान रखे जाने वाले बिंदु, विभिन्न पत्रों का टंकण आदि तथा दिनांक 07 दिसंबर 2023 को हस्तलेख पर मार्गदर्शन करते हुए विभिन्न प्रूफ शोधन चिन्हों की पहचान तथा चारों सत्रों का पुनरावलोकन किया।

■ दिनांक 08 दिसंबर 2023 को आनलाइन हिंदी कार्यशाला का आयोजन

राजभाषा विभाग, गृह मंत्रालय, भारत सरकार के दिशा-निर्देशों के अनुपालन में हिंदी प्रकोष्ठ, भा.प्रौ.सं. रोपड़ ने अक्टूबर-दिसंबर 2023 तिमाही के दौरान हिंदी कार्यशाला का आयोजन संपन्न किया। संस्थान का हिंदी प्रकोष्ठ प्रति तिमाही एक कार्यशाला का आयोजन संपन्न करता आ रहा है। इसी क्रम में, दिनांक 08 दिसंबर 2023 को आनलाइन माध्यम से हिंदी कार्यशाला का आयोजन किया



गया। इस कार्यशाला का उद्देश्य संस्थान सदस्यों को तकनीक के साथ हिंदी में कार्य करने में निपुण बनाना था।

उपर्युक्त उद्देश्य की पूर्ति हेतु संस्थान सदस्यों का मार्गदर्शन करने हेतु डॉ. श्याम सुंदर कथूरिया, संयुक्त निदेशक (राजभाषा), कर्मचारी राज्य बीमा निगम, भारत सरकार (नई दिल्ली) को विशेष रूप से आमंत्रित किया गया था। यह कार्यशाला "हिंदी में कामकाज: बहुत आसान" विषय शीर्षक पर आयोजित की गई थी।

इस कार्यशाला के आरंभिक चरण में, संस्थान के वरिष्ठ हिंदी अनुवाद अधिकारी

डॉ. गिरीश प्रमोदराव कठाणे ने सभी को आमंत्रित वक्ता महोदय का विस्तृत परिचय दिया। इस अवसर पर संस्थान के हिंदी अधिकारी श्री विपिन कुमार जी ने औपचारिक स्वागत करते हुए डॉ. श्याम सुंदर कथूरिया जी का भारतीय प्रौद्योगिकी संस्थान की ओर से स्वागत एवं अभिवादन किया। साथ ही, नराकास रुपनगर के सदस्य कार्यालयों से सहभागी सदस्यों का भी स्वागत किया। इस कार्यशाला में संस्थान के कर्मचारियों के साथ-साथ नराकास रुपनगर के सदस्य कार्यालयों के सदस्यों ने भी बढ़-चढ़ कर अपनी सहभागिता दर्ज की। अपने मार्गदर्शन पर वक्तव्य में डॉ. श्याम सुंदर कथूरिया जी ने सभी के साथ कार्यशाला के विषय पर चर्चा की।

■ संयुक्त क्षेत्रीय राजभाषा सम्मेलन में सहभागिता

राजभाषा विभाग, गृह मंत्रालय, भारत सरकार द्वारा उत्तर क्षेत्र-1 तथा उत्तर क्षेत्र-2 हेतु आई आई टी जोधपुर, राजस्थान में दिनांक 28 दिसंबर 2023 को एक दिवसीय "संयुक्त क्षेत्रीय राजभाषा सम्मेलन एवं पुरस्कार वितरण समारोह" आयोजित किया गया। इस सम्मेलन में भारतीय प्रौद्योगिकी संस्थान रोपड़ के वरिष्ठ हिंदी अनुवाद अधिकारी डॉ. गिरीश प्रमोदराव कठाणे ने सहभागिता ली।



New Joinings

Faculty Joined During September – December 2023



Dr. Mudasir Ahmad Ganaie
Assistant Professor Gr.II
CSE



Dr. Shray Pathak
Assistant Professor Gr. I
Civil Engg



Dr. Swapnil Vilas Dhamal
Assistant Professor Gr. I
CSE



Dr. Nitish Bibhanshu
Assistant Professor Gr. I
MME



Dr. Puneet Pasricha
Assistant Professor Gr. I
Mathematics



Dr. Hariprasad Gopalan
Assistant Professor Gr. I
MME



Dr. Avala Lavakumar
Assistant Professor Gr.II
MME

Staff Joined During September – December 2023



Sh. Mohan Singh Jagarwal,
Junior Lab Assistant
Physics



Sh. Ankit Kumar Gupta
Junior Lab Assistant
IT Section



Sh. Vivek Kumar
Junior Lab Assistant
Physics



Sh. Arun Kumar Keshari
Junior Lab Assistant
Computer Science & Engineering



Ms. Ramanpreet Kaur
Junior Lab Assistant
Computer Science & Engineering



Sh. Hitesh Bans
Junior Engineer
(Public Health)
Physics
Works & Estate



Sh. Krishna Pal Singh Yadav
Junior Engineer (Civil)
Works & Estate



Sh. Kaushal Kumar
Junior Lab Assistant
Mechanical Engineering



Sh. Pramod Kumar Ram
Junior Lab Assistant
Central Workshop



Sh. Deepak Kumar Srivastav
Junior Lab Assistant
Metallurgical & Materials
Engineering



Sh. Rahul Kumar
Junior Lab Assistant
Civil Engineering



Sh. Yogesh Kumar Pagowal
Junior Lab Assistant
Civil Engineering



Sh. Rajanitkant Lal
Junior Lab Assistant
Electrical Engineering



Lt Cdr Ankur Bhardwaz (Retd.)
Security Office



Sh. Satbir
Junior Assistant Accounts



Sh. Harprit Singh
Junior Assistant Accounts



Sh. Kulbir Singh
Junior Assistant



Ms. Soni Bhagat
Junior Assistant Accounts



Sh. Hitesh Kumar
Junior Assistant



Sh. Vinay Kumar Gupta
Junior Assistant



Sh. Ashutosh Kumar
Senior Technical Officer
IT



Ms. Karishma Chaudhary
JE (Electrical)
Works & Estate



Sh. Arun Soni
Junior Lab Assistant
Civil Engineering



Dr. Tarvinder Singh Handa
Assistant Librarian
Library



Sh. Sumnendra Singh
Assistant Registrar
Hostel Management



Sh. Vijay Singh
Assistant Registrar
Accounts



Sh. Pramod Kumar Dubey
Superintendent
(Promotion through LDE)
Establishment



Sh. Ashwani Chandra
Senior Assistant
(Promotion through LDE)
Store & Purchase



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