Prajwalam

Indian Institute of Technology Ropar

THE NEWSLETTER

VOL 9, ISSUE 1 | JUNE 2020

COVID-19 SPECIAL

DIRECTOR'S MESSAGE

We all know that our nation as well as the whole world is going through a very turbulent period, following the Covid-19 attack. Commenting on the pandemic will be redundant, in view of the flood of information both accurate and fake, flooding all types of media including the social media. However, one thing can be told with certainty that focus has come back on scientific methods and scientific research. During this period, even in the public domain, the various innovative techniques for testing, management, predictions, characterization and mitigation strategies including race for vaccine are not just topics of discussions within the scientific community but among the public at large.

IIT Ropar has taken the double prong strategy of protecting the health and academic interests of its community on the one hand and contributing to the national and local needs through innovation, research and collaboration. This issue of *Prajwalam* presents some of the innovations that the faculty and students of IIT Ropar have come up with, while a lot many are being worked upon. It is also heartening to observe that many of these innovations are being commercialized or being transferred directly to healthcare authorities making IIT Ropar's mission of "Contributing to Society" and "Contributing to Nation" a reality.

During this difficult period, IIT Ropar has not led down its academic activities as we quickly switched to online mode in the middle of the semester which was brought to an end on 13th June. Curricular activities continued not only through online classes but also through online assignments, examinations, viva voce etc. We strictly followed the principle of giving alternate opportunities to the students without diluting the standard of education. Online classes will be offered in the coming semester and the Institute is gearing up its technical and other abilities to carry it out effectively. Institute is also to bring back the research scholars in a phased manner following all government norms, keeping health and safety at the centre, and on a completely voluntary basis.

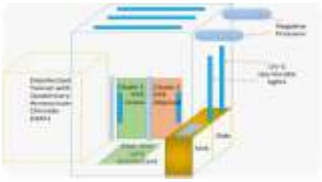
The construction activity within the campus is going in full swing with the campus adhering to the government led procedure. We are also happy to observe that a large number of newly recruited faculty and staff members have joined the Institution during this period which also talks about the reputation that the Institute has built over the years.

Last but not the least, IIT Ropar has attained high international rankings in the Times Higher Education Asia University Rankings and Times Young University Rankings 2020. This shows the commitment of our stakeholders, particularly the students, faculty and staff towards excellence and I am sure, our endeavour to make it a leader among the universities born in the new millennium within a short period of time to come. We pray that all of you remain safe and fight this difficult time unitedly for the growth of the nation and the welfare of humanity.

Jai Hind!

UPDATE ON RESEARCH ACTIVITIES ON NOVEL CORONAVIRUS

Doffing Unit: IIT Ropar conceptualised Doffing Unit (Station) for health care workers using chemical disinfectants, UVGI technology and negative pressure room technology.

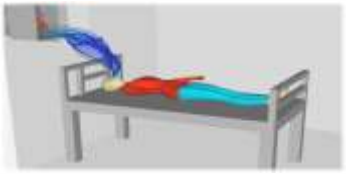


UV-C Sterilization Trunk:

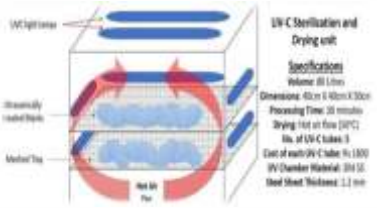
- IIT Ropar designed and fabricated a sanitizing device based on UV-C germicidal irradiation technology to sterilize groceries, vegetables, packages and personal belongings.
- This trunk shaped device is easy to fabricate, convenient to operate and chemical- free procedure for sanitization.

Negative Pressure Room (NPR) :

IIT Ropar has developed a design for a negative pressure room (NPR) to prevent the transmission of COVID-19 through air at isolation wards and testing labs, thus protecting the medical staff from getting infected.



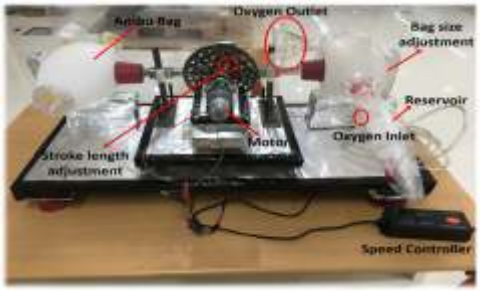
3-way PPE Sterilization:



IIT Ropar has designed a device to sterilize and cleanse 'Used PPE' by three proven pathogen-killers namely Ultraviolet-C irradiation, Ultra-sonication and an oxidizing agent. These techniques are known to disrupt the capsid of viruses and render them inactive. By employing three sterilizers in combination, respirators and PPE can be completely disinfected.

Low Cost Ventilator :

IIT Ropar team designed & fabricated a low cost ventilator.



Line Robot :

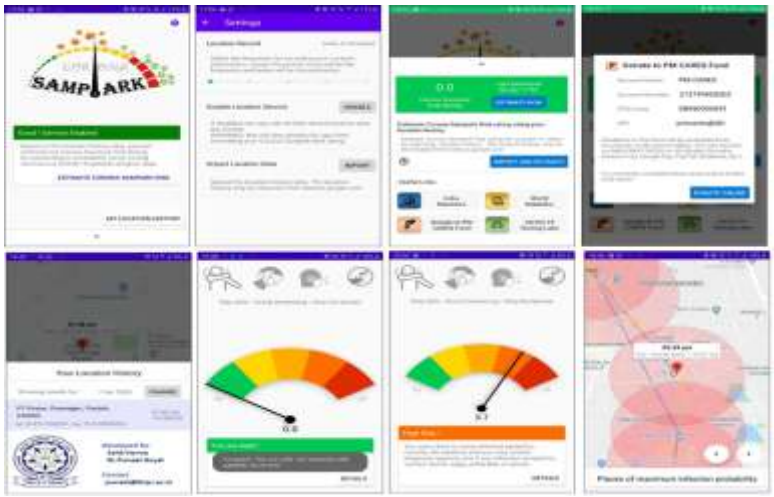
IIT Ropar team designed a "wardbot" to deliver medicines/food in Covid19 patients ward to minimize medical staff intervention.

Containment Box:

Containment Box is designed for protecting frontline healthcare workers that can allow it to be converted into a negative pressure chamber by connecting the vacuum from the wall-gas supplies, readily available in most hospitals.

Sampark-o-Meter:

A mobile-based app called "Sampark-o-Meter" is developed which can indicate areas on maps with maximum coronavirus infection possibility.

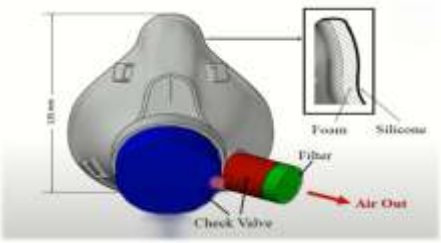


Intelligent Infrared Vision System for Covid-19 suspects' identification:

Intelligent Infrared Vision System has been developed which is portable, economical, and safe with remote screening capabilities along with self decision making ability to detect suspects without human intervention at crowded places.

Affordable, Compact and infection-free BiPAP MASK for SARS patients:

BiPAP (Bilevel Positive Airway Pressure) ventilation support is developed for the less critical COVID-19 cases and as a backup while traditional ventilators are occupied for the critical cases.



MEDI- Sarathi and AI Powered Trolley :

IIT Ropar in association with PGIMER, Chandigarh have developed and launched two state-of-the art low cost autonomous vehicles, "Medi-Sarathi' and "AI-Powered Trolley" for COVID-19 patients with an intent to minimize healthcare workers' contact with infected patients and contaminated surroundings.

HRD MINISTER LAUDS IIT ROPAR'S EFFORTS

MHRD | Government of India
Ministry of Human Resource Development

universities are contributing to the public good. As one of the largest education systems in the world with more than 340 million students and 10 million teachers, we have a huge responsibility to ensure the smooth and safe running of our institutions. The best part is that the entire education sector in the country is working closely together on COVID-19 response efforts. As a part of a joint project, the Chemistry Department, along with and the Bioscience and Bioengineering departments at IIT Guwahati, are developing prototypes of waterproof protective gear that comes with an antiviral coating. Besides, experts have created a 3D-printed prototype of a full-face shield, including headgear, with a possibility of scaled-up manufacturing.

To meet the enormous demand for sanitisers in the country, IIT Kharagpur has developed two different alcohol-based hand sanitisers based on WHO guidelines. Numerous other universities and institutions are preparing sanitisers to meet the huge demand. While researchers at the Indian Institute of Technology, Kanpur, have come up with a new ventilator design. This has the potential for large-scale manufacturing at multiple sites. Scientists at the Indian Institute of Technology, Delhi, have developed a method to detect COVID-19, which can significantly reduce the cost of the test making it affordable for a larger section of people. Situated near Chandigarh, IIT Ropar has developed a design of a Negative Pressure Room (NPR) to prevent the transmission of COVID-19 through the air at isolation wards and testing labs. This technology will help protect our most vulnerable medical staff from infection. As a part of a collaborative initiative, students from prestigious educational institutions — IITs, NITs, and IIMs — have come together and launched an initiative called Sahyog to help stranded workers, migrants and the homeless amid the strict measures to restrict movement. As a part of another collaborative project, AIIMS Patna and IIT Patna are identifying potential drug targets in the structural proteins of SARS-Cov-2.

Our educational and research institutions do realise the fact that the COVID-19 crisis has resulted in an unprecedented lockdown, and the country badly needs an abundant supply of essential commodities. We need COVID-19 testing kits, masks, alcohol-based sanitisers, personal protective equipment (PPEs), dress materials not only for the patients but also for frontline health workers. The challenge is to produce these as quickly as possible and in bulk. This situation prompted the Government of India to vigorously activate the Make in India Programme and involved various Research and Development institutions of the country. Indian Institute of Science in Bangalore is working on several projects ranging from 3D printed valves for split use of ventilators to a recombinant subunit vaccine for SARS-CoV-2.

Researchers at the institute are also working on developing a UV-based disinfectant device along with mobile diagnostic testing laboratory. IIT Palakkad is attempting to make indigenously designed masks and filters. The filters contain layers of non-woven PP (polypropylene) materials and textile material coated with known antiviral nanomaterial. To prevent community spread, surveillance of Coronavirus suspects is essential. It's heartening to note that IIT

India Post and 9 others

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Sanjay Dhotre @SanjayDhotreMP · 1h
Proper removal or doffing of the #PPE by the doctors after treating patients affected by #coronavirus is utmost important to minimize the risk of #COVID19 transmission. Congratulations to @iitrpr for designing a Special Doffing Unit as per @WHO guidelines. #IndiaFightsCorona

PMO India and 9 others

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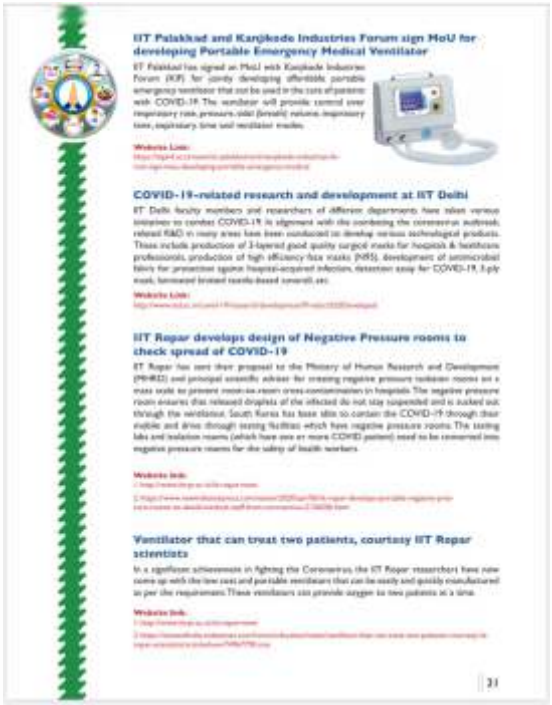


IIT Palakkad and Kanjikode Industries Forum sign MoU for developing Portable Emergency Medical Ventilator

COVID-19-related research and development at IIT Delhi

IIT Ropar develops design of Negative Pressure rooms to check spread of COVID-19

Ventilator that can treat two patients, courtesy IIT Ropar scientists

IIT-Ropar develops device to clean, reuse PPE kits

IIT-Ropar scholar, private engineers group, develop an app to prevent community transmission

Tweet

Dr. Ramesh Pokhriyal Nishank
@DrRPNishank

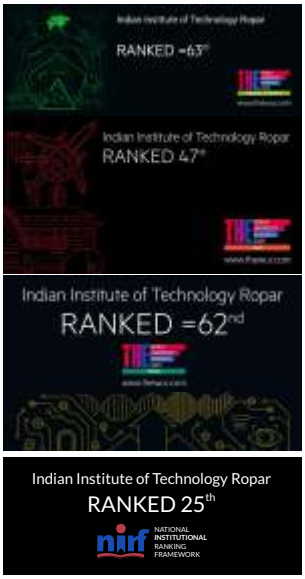
Congratulations to team @iitrpr led by Mr. Dhiraj K Mahajan for working out engineering aspects of Negative Pressure Rooms to create facilities for mass screening for Covid-19. It will help to contain the rapid spread of the virus.

#IndiaFightsCorona

IIT Ropar @iitrpr · 04/04/20
@iitrpr decodes South Korean technique for mass screening to beat COVID-19. bit.ly/39JxgmS @DhirajMahajan @narendramodi @HRDMinistry @mygovindia @PIB_India @IndiaDST @PTI_News @TOIindiaNews @Dr...

RANKINGS

- IIT Ropar once again made a mark in **THE Emerging Economies University Rankings 2020**, being ranked 63rd sharing the rank with IIT Madras and entering the top 100 list for the first time.
- IIT Ropar made a debut this year in **THE ASIA University Rankings 2020**, being ranked 47th and entering the top 50 list for the first time. In spite of being a young Institution, IIT Ropar has punched well above its weight from the more popular predecessors.
- IIT Ropar emerges as the TOP Indian Institute in **Times Young University Rankings 2020**. IIT Ropar charges ahead and catapults to the Top 70 in the Times Higher Education Young University Rankings 2020 announced at UK.The Institute has been ranked 62nd in the World reaching under Top70 best Young Institutes in the world.
- IIT Ropar has been ranked 39th in the overall category and climbed to rank **25th in the Engineering Category** in the latest India Rankings 2020 by the **National Institutional Ranking Framework (NIRF).**



KNOW YOUR FACULTY

Dr. Dhiraj K. Mahajan is an Associate Professor in the Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab India. Dr. Mahajan joined the institute as an Assistant Professor in Dec. 2013. He did his M.Tech. in Advanced Manufacturing Processes from National Institute of Technology Warangal. In 2010, he earned his PhD in Solid Mechanics from IIT Kanpur for his doctoral research on the molecular dynamics-based investigations into the deformation behavior of amorphous polymers. During his PhD, he was a visiting researcher at INSA-Lyon, France for a few months. After his PhD, he worked as a postdoctoral fellow in the Interdisciplinary Centre for Advanced Materials Simulation (ICAMS) at Ruhr University Bochum, Germany till December 2013. At ICAMS, he pursued research on multiscale modeling of metal plasticity, failure of amorphous polymers, metal substrate roughness effect on performance of polymer coatings and hydrogen-based failure of steels in strong collaboration with industry. At IIT Ropar, Dr. Mahajan has established the Ropar Mechanics of Materials Laboratory (RMML) which focuses on correlating microstructure, deformation/fracture mechanisms and manufacturing of materials ranging from advanced high strength steels to bioresorbable polymers using ultramodern experimental and multiscale simulation techniques. The present research interests of the group are broadly focused on indigenisation of hydrogen energy technology (that include development of high pressure hydrogen storage Type IV tanks and additively manufactured proton exchange membrane fuel cells) towards zero-emission future for the country, multiscale modeling of short crack propagation in metals, multiphysics modeling of hydrogen embrittlement phenomenon in metals and micro-injection molding of bioresorbable polymeric stents. Research papers from Dr. Mahajan's group are regularly published in journals of international repute. A recent work from his group on hydrogen distribution in metallic materials with deformation is published in the reputed Journal of Mechanics & Physics of Solids. Dr. Mahajan, while working on advance research topics, is equally motivated to support Indian industry to manufacture world class products within the country. With this motivation, he is currently handling several projects in collaboration with industry. Further information about Dr. Mahajan's work can be found at **http://www.iitrpr.ac.in/smmee/dhiraj.**

ADVITIYA 2020

Advitiya 2020, IIT Ropar's tech-fest concluded with a bang with a guest lecture by Dr. K Radhakrishnan, the Former Chairman of ISRO. He comprehensively spoke about the success story of ISRO and all the advancements from the recent space missions, mainly about Chandrayaan and Mangalyaan. Dr. K. Radhakrishnan's presentation about ISRO was quite enlightening about the challenges faced by the scientists back at ISRO. The audience threw several questions related to the ongoing research and the entire lecture has been successful in sparking off an interest for the young impressionable minds to consider a career at ISRO.

2 MONTH COURSE ON SOLID WASTE MANAGEMENT

IIT Ropar successfully organized a short duration course of two months under Green Skill Development Programme (GSDP) for Solid Waste Management in close association with Punjab State Council of Science & Technology which was sponsored by the Ministry of Environment, Forest & Climate Change, GoI. This course has been launched to enhance the skilled workforce/manpower in the areas related to the environment conservation/ preservation especially at field level and restoring environmental quality for a sustainable future. For this course, 15 students with different backgrounds and origins have been enrolled and were actively engaged in lively discussions and Green Skill development projects.

IIT ROPAR TO SET UP HUB FOR AGRICULTURE AND WATER TECHNOLOGIES

In a first of its kind initiative, IIT Ropar is setting up Sectoral Application Hub to bring the solutions for stubble management, water quality improvement, mapping of hazardous substances in water/soil and their treatment, deployment of IoT based Cyber-Physical System (CPS) technologies in farming fields. Being in the agrarian state, a major mandate of IIT Ropar has been to take up research aimed at addressing Water-Agriculture related issues and to support this vision. The hub is aimed to carry out translational research and work with Line Departments to develop prototypes, products, and implementations. The hub will create a platform for technologies and applications in Agriculture & Water.

IIT ROPAR SIGNED AN MoU WITH AICTE

In yet another step towards empowering the youth beyond its campus and own students, IIT Ropar has joined hands with All India Council for Technical Education (AICTE) in the auspicious presence of Union Minister for Human Resource Development, Ramesh Pokhriyal, 'Nishank', for extending internships to 100 meritorious students from Jammu and Kashmir, studying in AICTE approved institutions across the country under Prime Minister's Special Scholarship Scheme.Under this MoU, IIT Ropar will enroll 100 meritorious students from Jammu and Kashmir, for internship at its own campus. The objective of the MoU is to provide an exposure to the youth from Jammu and Kashmir to the academic culture at National Institute of importance. IIT Ropar is passionate to implement such initiatives.



WORKSHOP ON IP TECHNOLOGY AND COMMERCIALIZATION

The Intellectual Property Rights (IPR) cell of Indian Institute of Technology Ropar organized workshop on IP Technology & Commercialization at IIT Ropar on 12th February 2020. The workshop was majorly sponsored by the Cell for IPR Promotion and Management (CIPAM), Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India and supported by Punjab State Council for Science & Technology (PSCST) under Mission Innovate Punjab.

CDCRC ORGANIZED AN EVENT UNDER THE IIT ROPAR SOCIETY OF WOMEN ENGINEERS (SWE):

Career Development and Corporate Relations Centre organized a Career Event under the IIT Ropar Society of Women Engineers (SWE) chapter. The following companies participated: IBM, Bechtel. Synopsys, Becton Dickinson, Infosys, Emerson, Windshuttle. Ms. Vaijayanthi Srinivasaraghavan, Project Executive. IBM Cloud Advisory Management Services was the keynote speaker of the event.

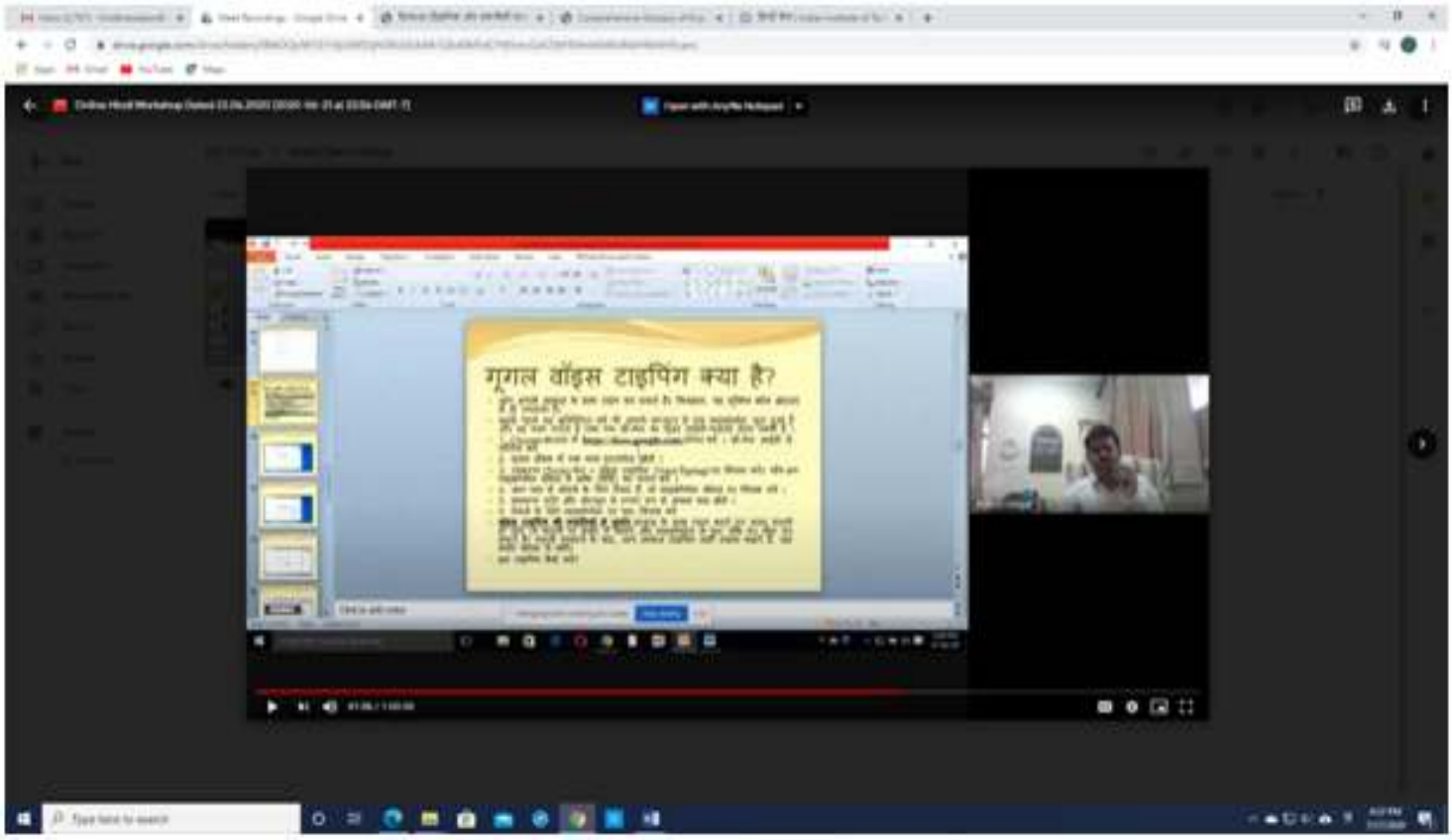
भा.प्रौ.सं. रोपड़ में ऑनलाइन हिंदी कार्यशाला सह प्रशिक्षण कार्यक्रम का आयोजन

भा.प्रौ.सं. रोपड़ में दिनांक 22 जून 2020 को सुबह 11.00 बजे ऑनलाइन हिंदी कार्यशाला का आयोजन किया। इस कार्यशाला का विषय ''कंप्यूटर में हिंदी का प्रयोग'' (हिंदी टंकण के विशेष संदर्भ में) था। इस कार्यशाला हेतु वद्रा के रुप में श्री अरविंद कुमार, सहायक निदेशक, हिंदी शिक्षण योजना, राजभाषा विभाग, गृह मंत्रलय, चण्डीगढ़ वद्रा के रुप में उपस्थित थे।

इस ऑनलाइन कार्यशाला हेतु संस्थान के सदस्यों से उत्साहजनक प्रतिक्रिया प्राप्त हुई। इस कार्यशाला में सहभागिता लेने हेतु कुल 96 प्रतिभागियों ने पंजीकरण करवाया।

श्री अरविंद कुमार, सहायक निदेशक ने सभी सहभागियों को कंप्यूटर पर हिंदी में कार्य करते समय आनेवाली कठिनाईयों को चिन्हित किया और उसका क्रमब) रुप से निवारण/समाधाान भी दिया। श्री अरविंद कुमार, सहायक निदेशक ने हिंदी टाइपिंग के संदर्भ में हिंदी इन्स्क्रीप्ट कीबोर्ड, फोनेटिक कीबोर्ड को कैसे कंप्यूटर में स्थापित (इन्स्टॉल) किया जाता है, इसकी जानकारी दी। साथ ही, संयुद्राक्षर को कैसे टाइप किया जाएं इसका भी प्रशिक्षण दिया। भा.प्रौ.सं.रोपड़ का हिंदी प्रकोष्ठ समय-समय पर अपने संस्थान में इस प्रकार का प्रशिक्षण आयोजित करता आ रहा है। किंतु संस्थान में कई नवनियुद्र कर्मचारियों की दृष्टि से यह कार्यशाला उपयोगी सिद्ध हुई। इसके अतिरिद्र, श्री अरविंद कुमार, सहायक निदेशक ने संस्थान के अधिाकारियों तथा उच्च अधिाकारियों को केन्द्र में रखते हुए Voice Typing कैसे की जाती है इसपर भी उन्हें प्रशिक्षित किया। इस कार्यशाला में डॉ. अरविंद कुमार गुप्ता, संकाय प्रभारी (हिंदी) विशेष रुप से उपस्थित थे। इस कार्यशाला में सहभागी हुए सभी प्रतिभागियों को प्रमाणपत्र प्रदान किए जाएंगे।

ऑनलाइन कार्यशाला को समापन की ओर ले जाते हुए श्री लगवीश कुमार, हिंदी अधिाकारी, भा.प्रौ.सं.रोपड़ ने श्री अरविंद कुमार सहायक निदेशक का धान्यवाद ज्ञापित किया साथ ही सभी प्रतिभागियों का इस कार्यशाला सह प्रशिक्षण कार्यक्रम में सहभागिता लेने हेतु धान्यवाद ज्ञापित किया।



IIT ROPAR IN NEWS

hindustantimes

IIT Ropar to provide online classes for students belonging to 4 courses

RECORDED LECTURES WILL BE AVAILABLE ON GOOGLE CLASSROOM AND ACCESSIBLE TO STUDENTS REGISTERED

DPS TO BEGIN ONLINE CLASSES

IIT Ropar studying depression among women

Times News Network

Chandigarh: The Indian Institute of Technology (IIT), Ropar, has started a project for assessing the level of depression and anxiety among middle-aged women in Punjab.

The project aims at finding the risk factors causing depression besides promoting mental health at village level. Under the project, around 30 urban and rural areas across the state will be covered.

MAPPING STATE OF MENTAL HEALTH

The IIT team has already visited four villages in the past fortnight. During these visits, around 150 women were assessed for various mental health parameters.

Assistant professor and project head Parwinder Singh from the institute's humanities and social sciences department said, "Depression is a painful emotional experience that involves intense suffering. Affective disorders are nearly twice more common among women than men. After diagnosing the mental health issues in women, we will provide psychological counselling to strengthen their cognitive, behavioural and emotional aspects, thereby enhancing their mental health."

The expert group involved in the project consists of trained psychologists and counsellors, having experience in assessing and providing required psychological assistance. For all the activities, a specific module has been formulated following the guidelines suggested by the World Health Organization, counselling psychologists and cognitive behavioural therapists.

The project is being funded by the institute under its innovative research and development scheme.

IIT Ropar designs doffing unit for docs

THE DOFFING CHAMBER

IIT Ropar makes anti-microbial coatings for PPE kits, hospitals, public spaces

The hydrophobic materials developed are designed for coatings on PPE kits used by doctors and health staff, hospitals and furniture

IIT's 'WardBot' could serve medicine to Covid patients

Times News Network

Patiala: A team of the Indian Institute of Technology (IIT), Ropar has developed a robotics-based design, WardBot, which can support healthcare outlets and industries that need to stay in operation even during spread of a pandemic like Covid-19 by minimising human interaction.

The conceptual design involves an autonomous bot, which can be instructed to receive and deliver food and medicines and necessary equipment from one room to another from a remotely-located control room. The control room can instruct multiple bots to accomplish tasks simultaneously, say on different floors. Phase-I of the project deals with development of one WardBot and its working to serve many patients in one round.

Ekta Singla, associate professor and head, department of mechanical engineering, who heads the team, said, "All team members are currently working from home. We plan to provide robust support to frontline workers to combat well in the battle against this pandemic. We are also looking forward to industry collaborations to take this concept further."

ROBUST SUPPORT

She said, "Robotics Club coordinator Ish Rajesh Shelley and other members are taking part in MHRD's mega online challenge 'Samadhan'. We believe we will be able to do a fair job."

Based on the smart-line following and fitted with sensors, WardBot can work on a known path and can carry food items and medicines for delivering at different beds. Patients will get the intimation through bed IDs displayed on small LCD units.

Its other features include self-sanitising on the return path and it can also be used to sanitise the hospital walls. It can also work under low-light conditions and maintain social distancing and obstacle avoidance, Singla said.

WardBot uses simple gesture sensors for a quarantined person to wave a bye to the bot, as an indication of receiving the material.

IIT-Ropar researchers to develop vaccine to prevent drug addiction

IIT Ropar designs 'doffing unit' to keep PPEs under sterile conditions

IIT Ropar develops coatings to combat microbes

SAJJAN SAINI
Ropar, May 24

IIT-Ropar, DMC Ludhiana develop aerosol containment box

SAJJAN SAINI
Ropar, April 27th

Coughing, Sneezing or aerosol generating procedure in COVID-19 patients leads to spread of heavy viral load among health care workers (HCW) and in spite of using PPE and taking appropriate precautions HCW gets infected with COVID-19 due to which higher than nor-mal infection rate has been noted among them.

There is a need to use multiple methods to reduce risk of infection in HCW. Major trans-mission of virus to healthcare worker is through the respiratory route which may happen due to coughing, sneezing or aerosol generating procedure required during the treatment of these patients such as Intubation, suction, accidental disconnection of ventilator circuit with endotracheal tube, Non-invasive ventilation or nebulisation. Ideally these patients need to be put up in negative pressure isolation rooms. But the volume of patients is too high during COVID-19 like pandemic to place them all in isolation rooms.

IIT-Ropar develops Covid-19 risk assessment app to control spread

IIT-R develops tech to find Covid suspects

AWARDS & RECOGNITIONS

Dr Mukesh Kumar of the Department of Physics has been awarded with the highly competitive Fulbright-Nehru Academic and Professional Excellence Fellowship 2020-2021 by the USIEF.

Dr. Srikant S. Padhee, Assistant Professor, Department of Mechanical Engineering nominated by the Society of Indian Defence Manufacturers.

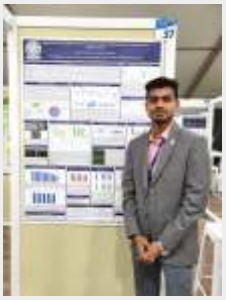
Mr. Ashwin Goyal , B.Tech student secured first position at the IP Hackathon conducted by Legasis Services in association with BSE, on the World Intellectual Property Day.

Dr. Prabhat Agnihotri, Assistant Professor, Department of ME, paper on Polymer Composites has been recognized as top downloaded article for two consecutive years 2017-2018 & 2018-2019

IIT Ropar receives grant funded by DBT-BIRAC under COVID-19 research consortium for developing a Low-cost Ventilator - AARMED, only 16 proposals were approved out of 500 applications.

Mr. Rahul Shukla Research scholar, CBME , has been awarded the BIRAC's highly competitive Biotechnology Ignition Grant (BIG'15).

Mr. Viney Ghai, Mr. Nishant Shakya and Mr. Ajinkya Sirsat research scholars received the "Augmenting Writing Skills for Articulating Research (AWSAR) Award from DST, India for Best Popular Science Stories.



Mr. Sidhanta Nanda, Research Scholar in Centre for Bio-Medical Engineering selected for poster presentation in Nature's Conference Next Gen Immunology 2020 at Weizmann Institute of Science, Israel

Ms. Riya Joshi, CBME , M.Tech student has been selected for prestigious Indo-US Khorana program for scholars 2020.

Mr. Viney Ghai, Ms. Tripti Midha, Mr. Malkeet Singh, Mr. Subhajyoti and Ms. Apoorva Sikka, Research scholars presented Research Poster Presentation @GYSS2020, inspiring the next generation of scientists at Singapore.

5 Research Scholars, Mr. Vikash Tripathi, Mr. Pankaj Kumar, Mr. Malkeet Singh, Ms. Joohi Chouhan and Ms. Bhawana Rana got selected for Newton-Bhabha PhD Placement Programme 2019-20.

Two students have scored above 99.9% in the Common Admission Test #CAT 2019, Mr. Ahsaas Sharma with 99.93% and Ms. Manya Dave with 99.90% and are among top 0.1 percent in the country

Mr. Anmol Rattan, B.Tech student, has been selected for the prestigious Harvard Project for Asian and International Relations #HPAIR Conference held at MA USA from 14 to 17 Feb 2020.

STARTUP NEWS

- First ever RFID reader solely designed for attendance management systems successfully launched and installed by the Institute Startup company ScratchNest at the Punjab Renewable Energy Systems Pvt. Ltd, which can track the movement of employees in real time.

- First woman entrepreneur of IIT Ropar, Ms. Shivanshi Verma along with her partner Mr. Sandeep Kumar started their startup company YOBOSHU Pvt. which focuses on providing Fitness services, healthcare and nutrition at one click.

- New Initiative 'Voylr' by IIT Ropar Alumnus. Voylr is an online platform for booking in-destination activities; Rafting, Camping, Paragliding, Bungee Jumping, Wildlife Safari etc. with the complete information and adventures via verified operators.

- Project Shwas by Enactus IIT Ropar chapter is helping in reducing stubble burning by enabling the farmers to earn by converting their stubble into organic manure and slurry.

SPORTS & CULTURE

- IIT Ropar participated in Inter IIT Sports Meet held at IIT Kharagpur. The opening ceremony of 54th Inter IIT Sports Meet was held on 14th December 2019 at IIT Kharagpur and 15 December 2019 at IIT Bhubaneswar. 127 students of IIT Ropar participated in this sports meet. Amit Chippa, B.Tech student won Bronze Medal in ShotPut at Inter IITSports Meet at Kharagpur.

- Under Fit India Movement initiative by the Government of India, IIT Ropar, ODAC club and Fitness Club organized a "Family Throwball Competition."

- Pehchaan Ek Safar an NGO at IIT Ropar in collaboration with Special Olympics participants from Ambuja Manovikas Kendra, Ropar conducted a unified sports event (Athletics, Football & Bocce) for children with & without Intellectual Disabilities.

- This 71st Republic Day at IIT Ropar celebrated with great patriotic fervour. Pehchaan-Ek Safar (NGO, IIT Ropar) presented the realistically crafted Ashoka Chakra made entirely from waste metal and paper collected during Swachh Bharat Abhiyan.

- IIT Ropar celebrated Matribhasha Diwas by organising Poster Making Competition, Poem and Song recitation competition and Speech Competiton.

INFRASTRUCTURE DEVELOPMENT

- IIT Ropar has started to erect two Wind Towers (35 meters each) with a modern technology known as “SLIP Forming” which is driving faster and safer construction of Hargovind Khorana Academic Block following relaxation of lockdown.





NEW JOININGS - FACULTY

Dr. Aditya Singh Rajput
Assistant Professor
Civil Engg.

Dr. Ickkshaanshu Sonkar
Assistant Professor
Civil Engg.

Dr. Balesh Kumar
Assistant Professor
Mathematics

Dr. Prince Kumar Singh
Assistant Professor
DMME

Dr. Atharva Poundrik
Assistant Professor
CBME & Joint in DMME

Dr. Rajagopal Vellingiri
Assistant Professor (On Contract)
Chemical

Dr. Kaushik Mondal
Assistant Professor
Mathematics

Dr. Sudeepta Mishra
Assistant Professor
Computer Science & Engg.

Dr. Saikat Roy
Assistant Professor
Chemical Engg.

Dr. Abhishek Sharma
Assistant Professor
Electrical Engg.

Dr. Indramani Dhada
Assistant Professor
Civil Engg.

Dr. Pardeep Duhan
Assistant Professor
Electrical Engg.

Dr. Sarang Prakash Gumfekar
Assistant Professor
Chemical Engineering

Dr. Abhishek Tiwari
Assistant Professor
DMME

Dr. Debdeep Sarkar
Assistant Professor
Elect. Engg

NEW JOININGS - STAFF

Sh. Ravindra Kumar
Junior Lab Assistant
Electrical Engineering.

Md Anzarul Haque
Junior Assistant
CBME.

Ms. Ritika
Junior Superintendent
Registrar's Office

Sh. Vipin Kumar
Senior Lab Assistant
Civil Engineering

Sh. Pankaj Thakur
Senior Lab Assistant
Mechanical Engineering

Sh. Hemant Kumar
Junior Lab Assistant
Mechanical Engineering

Sh. Lalit Kumar
Junior Accounts Officer
Accounts Section

Sh. Puneet Sharma
Office Asst.
Training & Placement Cell

Sh. Satish Kumar
Junior Lab Asst.
Physics

Sh. Naveen Kumar
Junior Accounts Officer
Accounts Section

Sh. Karamvir Singh
Junior Assistant Accounts
ICSR.

Sh. Damninder Singh
Jr. Technical Superintendent
Central Research Facility

Sh. Sumnendra Singh
Jr. Superintendent
Stores & Purchase Section

Ms. Nabanita Chakraborty
Junior Superintendent
Research Section

Sh. Anuj Babbar
Junior Lab Assistant
Mechanical Engineering

Sh. Amit Rawat
Assistant Security Officer
Security Section.

Sh. Gagandeep Singh
Junior Assistant Accounts
Accounts Section

Ms. Nidhi Sinha
Junior Assistant Accounts
Accounts Section

Sh. Rambeer Singh
Junior Technical
Superintendent
Central Workshop

Sh. Gourav Dutta
Junior Accounts Officer
Audit Section

Sh. Sachin Mishra
Junior Lab Assistantr
Chemical Engineering

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