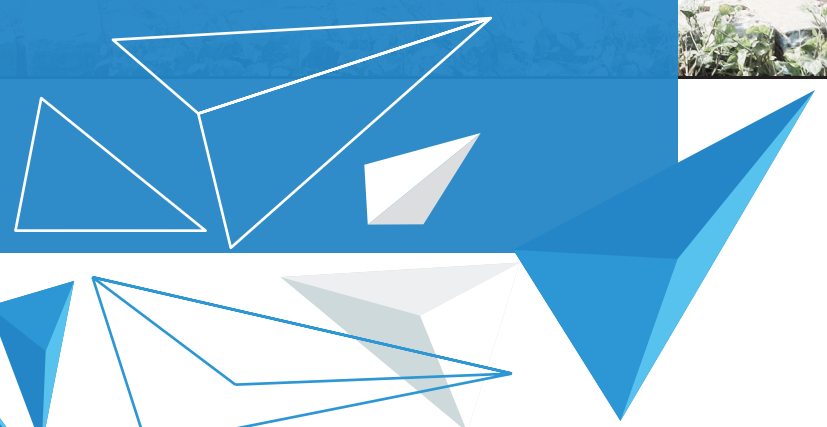


# NEWSLETTER

## INDIAN INSTITUTE OF TECHNOLOGY DELHI

Quarterly

NOVEMBER 2021 ISSUE





# WORD FROM THE **Director**

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Dear Friends and Well-wishers of IIT Delhi,

I am happy to present the November 2021 Issue of the Institute's newsletter to you.

This issue will give you glimpses of the 52nd convocation, academic achievements, collaborations, research & innovations, and alumni affairs.

Your comments and suggestions are welcome to make the next issue of the newsletter more interactive.

Warm regards,  
V. Ramgopal Rao  
Director, IIT Delhi

# News & Events



## IIT Delhi Holds 52nd Convocation

IIT Delhi held its 52nd Convocation on November 13th, 2021. Ms Padmasree Warrior, a distinguished IIT Delhi alumna and Founder & CEO, Fable was the Chief Guest at the Convocation. Ms Warrior is also Board member of Microsoft and Spotify and former CEO, NIO U.S.; former CTO, Cisco & CTO, Motorola. Addressing the graduating students, Ms Padmasree Warrior congratulated them and said, "We all know that the curriculum at IIT is tough. It is rigorous (as the professors like to say), but brutal (as the students often call it). This brutal rigor taught me how to problem-solve from first principles – a great skill for engineers and technologists to possess. If you are confident about problem-solving capabilities, you can be successful in any role in any industry, which in turn boosts your self-confidence. This may sound simplistic, but trust me, problem-solving skills come in handy to build resilience in your life". While addressing the graduating students Dr. Rajagopala Chidambaram, Chairperson, Board of Governors, IIT Delhi and former Principal Scientific Advisor to the Government of India said, "India of our dreams, particularly of young people like you, is an India which is economically developed – where the Human Development Index is high; an India which is scientifically advanced, with a Knowledge Economy, and an RDI Ecosystem, with excellence in basic research, applied research, technology development, R&D-led Innovation, backed by high-quality manufacturing skills. We also want an India which is militarily strong. In all these areas, IIT Delhi is contributing in exceptional measure". At the 52nd Convocation, Prof V. Ramgopal Rao, Director, IIT Delhi presented the Director's report. Prof Rao said, "When the COVID-19 pandemic started leading to a nationwide lockdown, the Institute swiftly adapted the teaching to the online mode. Sufficient outreach, surveys and initiatives were taken to support the students who were forced to continue study in the digital mode. The Senate provisioned the online doctoral defense for Ph.D students so that minimal disruption takes place to their academic progress and completion".



## 52nd Convocation-2117 Graduating Students Awarded Degrees and Diploma



S. No	UG Programmes	No. of Graduating Students
1.	B. Tech	734
2.	Dual Degree (B. Tech & M. Tech)	97
3.	Tech & M. Tech under Advanced Standing	06
4.	M. Tech (05-Year Integrated Programme)	04
5.	Undergraduate Diploma	02



S. No	PG Programmes	No. of Graduating Students
1.	Ph.D	288
2.	M.Tech	608
3.	MBA	157
4.	Master of Science	151
5..	Master of Science (Research)- MSR	26
6.	Master of Design	21
7.	PG Diploma of IIT Delhi (Naval Construction)	19
8.	Diploma of IIT Delhi (DIIT)	04
	<b>Total (UG + PG)</b>	<b>2117</b>

Meritorious graduating students were awarded the President's Gold Medal (Ananya Agarwal, B. Tech in Computer Science & Engineering), Director's Gold Medal (Shreyansh Chanani, B.Tech. in Production and Industrial Engineering), Perfect Ten Gold Medal (Ajmera Sanketh Kumar, M.S.(R) in Mechanical Engineering; Aditya Singla, M.Tech. in Thermal Engineering and B.Tech. in Mechanical Engineering), Institute Silver Medal and the awards instituted by donors.



## 52nd Convocation- Prestigious Alumni Awards Presented

IIT Delhi presented coveted Alumni Awards 2021 to its esteemed alumni in Teaching & Research, Entrepreneurship, Corporate Leadership categories. The Distinguished Alumni Award (DAA) was presented to six alumni, the Graduates of Last Decade (GOLD) Award to four alumni and the Distinguished Alumni Service Award (DASA) to one alumnus.

Distinguished Alumni Award (DAA)	
Teaching & Research	Dr Lov K Grover
	Prof Somesh Jha
	Prof Nandini Trivedi
Entrepreneurship	Mr Hitesh Oberoi
	Mr Kapil Bharti
Corporate Leadership	Dr Satish Kumar Singh
Graduates of Last Decade (GOLD) Award	
Teaching & Research	Prof Deepak Vasisht
	Dr Divya Gupta
Entrepreneurship	Mr Vidit Aatrey
	Mr Sanjeev Barnwal
Distinguished Alumni Service Award (DASA)	
	Mr Sandeep Singhal



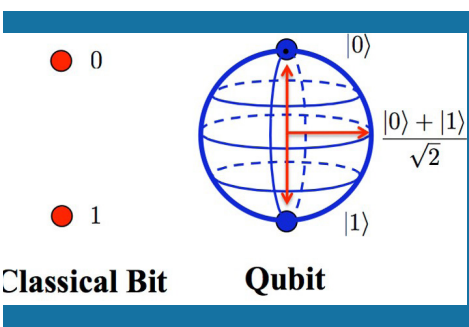
## Alumnus Mr Anant Yardi to Contribute USD 10 Million to IIT Delhi

Mr Anant Yardi, President and Founder of Yardi Systems, and an alumnus of IIT Delhi, has agreed to gift USD 10 million (Rs ~75 Cr) to IIT Delhi. Yardi Systems, founded in 1982 by Anant, is a leader in real estate asset and property management solutions and the largest real estate software provider in North America. Mr Yardi's gift would enable IIT Delhi to create state-of-the-art laboratories and attract talented students and researchers to its newly established School of Artificial Intelligence (ScAI). The School of Artificial Intelligence was set up by the Institute for the express purpose of expanding opportunities for fundamental, and inter-disciplinary research, innovation and post-graduate education in Artificial Intelligence (AI), Machine Learning, and Data Science technologies.



## State-of-the Art 'Central Research Facility' Now Open for Researchers from Across Country

IIT Delhi has developed a new platform whereby anyone from across India can create a user account, log-in to the Central Research Facility (CRF) and book an instrument online (<https://crf.iitd.ac.in/>) for their research work. With this step, all facilities of the CRF on the Institute's main campus in New Delhi as well as in the Sonapat campus in Haryana are now available for researchers from across the country.



## Centre of Excellence on Quantum Technologies Established

The Institute has established a Centre of Excellence (CoE) on Quantum Technologies to bring research activities occurring in various domains of Quantum Technologies at IIT Delhi under a single umbrella. The CoE will bring synergy and coherence in the activities being carried out at the Institute and will support the Principal Investigators to pitch in for more significant projects from the DST and other funding agencies. Prof Rajendra Singh, Head, School of Interdisciplinary Research (SIRe) and lead PI, CoE on Quantum Technologies, IIT Delhi said, "The CoE on Quantum Technologies at IIT Delhi will focus on select thrust areas, which include Quantum Computing, Quantum Communication, Quantum Sensing and Metrology and Quantum Materials and Devices."



## SciTech Spins Lecture Series for School Students

SciTech Spins is an academic outreach initiative by IIT Delhi for school students from class 9th to 12th. Under this initiative, IIT Delhi professors engaged in cutting edge research in science, technology and allied fields are delivering lectures and conducting laboratory demonstrations every month in virtual mode. The 1st lecture titled 'Design Thinking- A Powerful Tool for Problem Solving', 2nd lecture titled "Learning to Learn Through Modeling", and the 3rd lecture titled "Materials that Matter" was organised on September 11, October 23, and November 20, 2021 respectively.



## DAKSH CoE for Law & Technology, IIT Delhi Releases Report on Six HC Websites

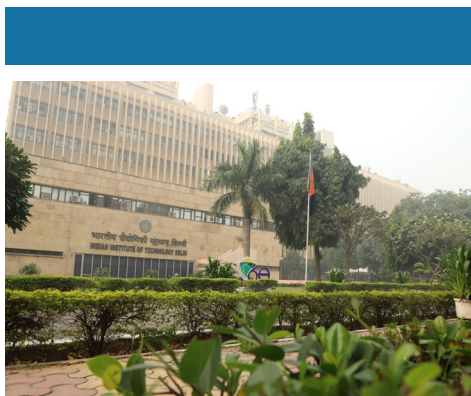
The report on Bombay, Calcutta, Delhi, Karnataka, Madhya Pradesh, and Madras High Courts was launched by Supreme Court's Hon'ble Justice S. Ravindra Bhat. The report includes an analysis of and suggestions for different aspects of the usability and functionality of the High Court websites. Key highlights of the report include several low hanging fruits such as appropriate placement of contact and RTI based information as well as the need for and detailed analysis of navigation efficiency and aesthetics. The report also highlights some positive points about the UI/UX of the High Court websites such as their speed and good performance on some Interaction Design Principles.



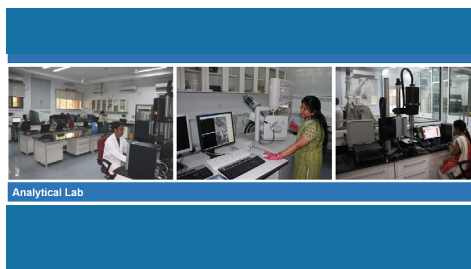
## Superannuated IIT Delhi Faculty Endow Scholarships and Awards for Students, Employees



Prof Kushal Sen, Textile and Fibre Engineering and his wife Dr Mira Kushal (an IIT Delhi alumna) instituted five awards to recognise and promote research excellence and leadership among undergraduate students and an award for recognising contributions of IIT Delhi employees in the betterment of the Institute. Prof S.N. Singh, Applied Mechanics, has instituted two merit-cum-means scholarships for undergraduate students in memory of his wife and mother and these are in addition to eight other awards and scholarships that he and his wife instituted when he was serving at IIT Delhi. Prof Anurag Sharma, Physics, and his wife, Prof. Enakshi K Sharma (an IIT Delhi alumna and former faculty member) have instituted an award in memory of his father for the best PhD thesis in the field of Optics and Photonics. Prof D. Subbarao, Chemical Engineering, has endowed an award for the best PhD thesis in Chemical Engineering. Prof V.S. Bisaria, Biochemical Engineering and Biotechnology, has raised funds for the "Prof T.K. Ghose Endowment" while Prof D.K. Pandya, Physics, was one of the key drivers of the "Prof K.L. Chopra Endowment", which was launched on the Golden Jubilee of the Thin Films Lab at the Institute. Prof S.N. Maheshwari, Computer Science and Engineering, was instrumental in setting up the Chaturvedi Distinguished Fellowship by the Vipula and Mahesh Chaturvedi foundation. Prof Mahesh Chaturvedi, who is now 96, retired from IIT Delhi in 1986 and had set up a Chair in Policy Studies at the Institute in 2007.



## SMITA Research Lab CoE in Smart Textiles Established



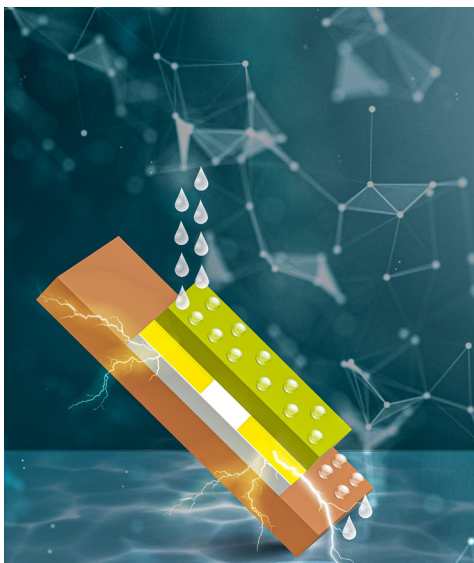
IIT Delhi has converted its state-of-the-art SMITA (Smart Materials and Innovative Textile Applications) Research Lab to a Centre of Excellence (CoE) in Smart Textiles. The SMITA Research Lab CoE in Smart Textiles has been established to work in the area of Smart and Functional Textiles using emerging materials and process technologies, which can directly benefit the country's textile industry.



## Clarivate India Research Excellence- Citation Awards 2021

IIT Delhi has been awarded Clarivate India Research Excellence- Citation Awards 2021 for Research Excellence in Social Sciences and Interdisciplinary Sciences category. Prof V. Ramgopal Rao, Director, IIT Delhi received the award. Prof Rao said, "These awards tell the story of some remarkable research works that have happened at IIT Delhi. Our researchers are committed to support the nation's dream of 'Aatmanirbhar Bharat' by developing new technologies."

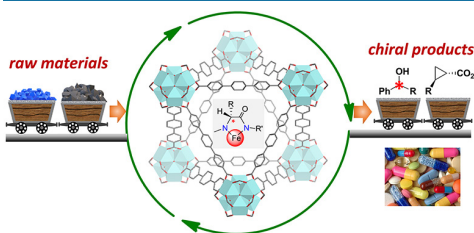
# Research & Innovation



## IIT Delhi Researchers Develop Device to Generate Electricity from Raindrops, Ocean Waves

IIT Delhi researchers have designed and fabricated a device that can generate electricity from water drops, raindrops, water streams, and even from ocean waves using “Triboelectric Effect” and “Electrostatic Induction”. The device is called “Liquid-solid Interface Triboelectric Nanogenerator”. The generated electricity can be stored in batteries for further use. Prof. Neeraj Khare, Department of Physics and his group at the Nanoscale Research Facility (NRF), IIT Delhi, have been working on harvesting electrical energy from to be wasted mechanical vibrations using the triboelectric effect. The group has filed an Indian patent on the various aspects of the use of ferroelectric polymer for harvesting mechanical energy including the present device. “Triboelectric effect is a known phenomenon for a long time, and in this effect, charges are generated when two surfaces are in friction. The best example we see are sparking lights when we move the blankets/jackets. It is only lately that it has been extensively investigated as a practical alternative for energy harvesting,” said Prof. Neeraj Khare.

Read more: [https://home.iitd.ac.in/show.php?id=48&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=48&in_sections=Press)



## IIT Delhi Researchers Develop Catalytic Technology for Sustainable Production of Chiral Active Pharmaceutical Ingredients

India is heavily dependent on importing (~85%) Active Pharmaceutical Ingredients (APIs), and a significant proportion of those APIs are chiral molecules, which are essential building blocks to produce pharmaceuticals, agrochemicals and biologically active compounds. An IIT Delhi research group led by Prof. Kuntal Manna from the Department of Chemistry has developed a catalytic technology for the sustainable and economical synthesis of chiral molecules. The Science and Engineering Research Board (SERB), a statutory body of the DST has funded this research work. “The developed catalytic technology may play a crucial role in decreasing the country’s dependence on the import of the Active Pharmaceutical Ingredients, which also means lowering of the input cost for the industry that would encourage it to pass on the benefit to the society,” said Prof. Kuntal Manna, Chemistry Dept., IIT Delhi.

Read more: [https://home.iitd.ac.in/show.php?id=53&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=53&in_sections=Press)

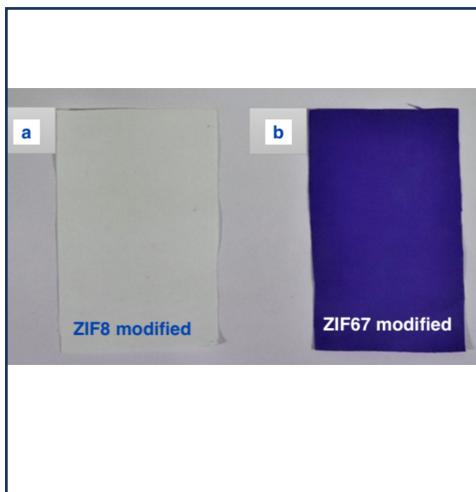


## IIT Delhi, RDSO Researchers Develop Easy to Use Train Simulation Software ‘Runtrain#’ to Help in Train Timetabling Methods

Researchers from IIT Delhi and Research Designs and Standards Organisation (RDSO), a unit of Ministry of Railways, have collaborated and developed a train simulation software named ‘Runtrain#’ that outputs results, which can be incorporated into timetabling methods. Runtrain# simulation software is an update of ‘Runtrain’ software being used by the Indian Railways since 1990s. The simulation software Runtrain# has been developed under the guidance of Prof Subir Kumar Saha, Principal Investigator, and Prof Satinder Paul Singh, Mechanical Engineering Department. Prof Saha said, “Indian Railways is consistently working to increase operating speeds of trains as well as advanced traffic management to meet societal demands. In this time, a simulation tool like Runtrain# will be a valuable tool to efficiently plan and schedule trains. Indigenous software for railway applications will also provide complete customization and flexibility to users. The collaboration has provided valuable insight to our students as well as engineers at RDSO.” (Pic courtesy- Indian Railways/ Twitter)

Read more: [https://home.iitd.ac.in/show.php?id=44&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=44&in_sections=Press)

## IIT Delhi Researchers Develop Modified Cotton Fabric Capable of Adsorbing Harmful Air Pollutants from Air



An IIT Delhi research team led by Prof. Ashwini K. Agrawal and Prof. Manjeet Jassal at the SMITA Research Lab, Department of Textile and Fibre Engineering, and Prof. Saswata Bhattacharya, Department of Physics has developed a modified cotton fabric capable of adsorbing harmful air pollutants from air. Speaking of the modified cotton fabric, Prof. Ashwini Agrawal, Textile and Fibre Engineering Department, IIT Delhi said, "In this study, we have shown the functionalization of cotton fabric by ZIF MOFs (ZIF-8 and ZIF-67) using a rapid, facile, eco-friendly, and scalable approach. The ZIF functionalized textiles possess a huge potential for applications as protective garments and in controlling indoor air pollution. These fabrics may be used as upholstery for controlling gaseous pollutants that cannot be filtered out using a filter media. In particular, these can be used within closed spaces, such as homes, offices, theatres, aeroplanes, and other transport vehicles."

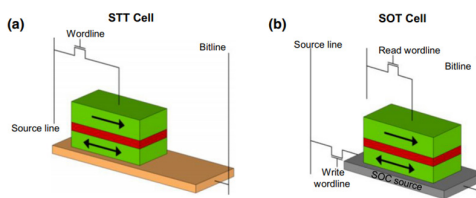
Read more: [https://home.iitd.ac.in/show.php?id=41&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=41&in_sections=Press)

## IIT Delhi, AIIMS New Delhi and Addverb Co-develop Telerobotic Ultrasound System During COVID Times



Can ultrasound imaging be done from a remote location? A research collaboration between IIT Delhi and AIIMS New Delhi has made this a reality with their new jointly developed Telerobotic Ultrasound System. The research team at IIT Delhi was led by Prof. Chetan Arora and Prof. Subir Kumar Saha, while Dr. Chandrashekhara was responsible from AIIMS. Mr. Suvayan Nandi was the lead contributor from Addverb Technologies. The system allows remote ultrasound access through a robotic arm. Ultrasonography is a non-invasive, non-ionizing, cost-effective, rapid, bedside, and readily available modality with immense use in point-of-care and follow-up examinations. Dr. Chandrashekhara, AIIMS, New Delhi, said, "This system will promote healthcare and make our system more prepared for further pandemics. Besides its role in the pandemic, it will allow a better outreach of ultrasound imaging to remote rural areas of India."

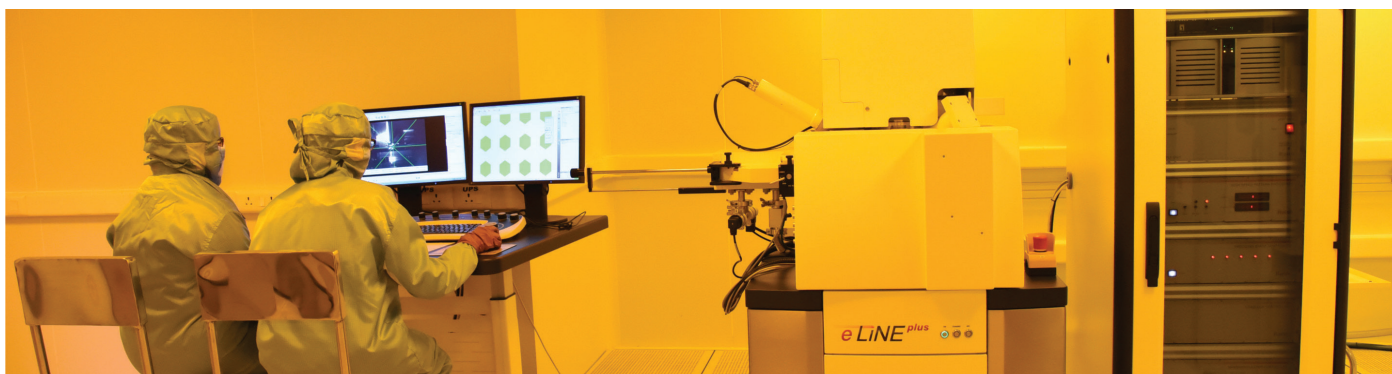
Read more: [https://home.iitd.ac.in/show.php?id=37&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=37&in_sections=Press)



## IIT Delhi Researcher in Collaboration with NUS Designs Device for High Density Magnetic Memory

The results of this collaborative work between Prof. Rahul Mishra from the Centre for Applied Research in Electronics (CARE), IIT Delhi and Prof. Hyunsoo Yang from the National University of Singapore (NUS) could eventually help to develop low power electronic devices. The frequent charging of wireless electronic devices such as mobile phone, IoT devices, etc would be significantly reduced with the proposed device. It would be especially useful for industrial applications where sensors are put in locations, which are not easy to access. Low power and high-density memory devices would not only be helpful in reducing global energy footprint, but the saved energy can also be used for extra computational tasks".

Read more: [https://home.iitd.ac.in/show.php?id=33&in\\_sections=Press](https://home.iitd.ac.in/show.php?id=33&in_sections=Press)



(Picture: Nanoscale Research Facility, IIT Delhi)

# Industrial Research and Development

## Sponsored Projects & Consultancy Jobs Undertaken Through IRD Unit During July-September 2021

- 49 Sponsored projects with a total sanctioned value of Rs. 5731 Lacs
- 73 Consultancy jobs with a total sanctioned value of Rs. 452 Lacs

## High Value Sponsored Projects (Sanctioned Value Rs. 50 Lacs and Above) Undertaken Through IRD Unit During July-Sept 2021



- A Technology platform for Design and Manufacturing of Advanced and Multi-functional 3D woven Textile structural composites using High performance and Natural fibres; Sponsoring Agency- Ministry of Textiles, GoI; Sanctioned Funds- Rs 2008.80 Lacs
- Next Generation Wireless Research and Standardization on 5G and Beyond; Sponsoring Agency- MEITY, GoI; Sanctioned Funds- Rs 876.85 Lacs
- Demonstration and Deployment of Community Level Integrated Autonomous Solar Energy System for Space Heating, Drying and Cooking Purposes in Ladakh Region (Sunshine Ladakh); Sponsoring Agency- DST; Sanctioned Funds- Rs 730.25 Lacs
- Development of a Cognitive Model for an Intelligent Robotic Teammate; Sponsoring Agency- DRDO, Ministry of Defence; Sanctioned Funds- Rs 419.65 Lacs
- Torrefaction based technology for the recovery of bio-coal, furfural and acetic acid from agriculture wastes; Sponsoring Agency- DST; Sanctioned Funds- Rs 193.65 Lacs
- Synthetic video generation for ultra-wide FoV sensor system and identifying targets in the generated sequences; Sponsoring Agency- DRDO, Ministry of Defence; Sanctioned Funds- Rs 190.00 Lacs
- Source Apportionment Study, Emission Inventory and Carrying Capacity Assessment for Alwar City in Rajasthan; Sponsoring Agency- Rajasthan State Pollution Control Board; Sanctioned Funds- Rs 118.00 Lacs
- Diverting plastics from landfill: Catalytic valorization of polyester waste into sustainable monomers and high-value chemicals (Ramalingaswami Fellowship awarded to Dr. Ashish Bohre); Sponsoring Agency- DBT; Sanctioned Funds- Rs 113.60 Lacs
- Quantum materials: growth of single crystals and physical property characterization; Sponsoring Agency- MAX Planck Partner Groups Germany; Sanctioned Funds- Rs 87.00 Lacs
- Capacity Enhancement of a OpenRAN (O-RAN) based 5G Massive MIMO System and its Validation through a Simulation Test Bed; Sponsoring Agency- Bharti Airtel Limited; Sanctioned Funds- Rs 85.48 Lacs
- Development of Shape Memory Oxide thin-films for Aerospace applications: Understanding the Phase-Switching behavior, related defect formation, and shape recovery process; Sponsoring Agency- Aeronautics Research & Development Board; Sanctioned Funds- Rs 84.17 Lacs
- Translational Research Consortium for Establishing Platform Technologies to Support Prophylactic and Therapeutic Strategies for Dengue - Discovery to Proof-of-Concept; Sponsoring Agency- BIRAC; Sanctioned Funds- Rs 81.93 Lacs
- Development of THz Modulator based on 2D Transition Metal Chalcogenides; Sponsoring Agency- SERB; Sanctioned Funds- Rs 68.86 Lacs
- Fabrication of 20% efficient doping free carrier-selective contact silicon heterojunction solar cells; Sponsoring Agency- DST; Sanctioned Funds- Rs 68.58 Lacs
- SAMOSA: Sensor-based Air Measurement Observatory for South Asia; Sponsoring Agency- Silicon Valley Community Foundation, USA; Sanctioned Funds- Rs 64.57 Lacs



## Other Significant Research Activities

### a) Faculty Interdisciplinary Research Project (FIRP)

A review meeting of the FIRP projects of Call-2019 and short-term FIRP call on COVID research & Locust Control projects was conducted on 30th July 2021 with the team of experts. According to the review of experts, measurable amount of progress was observed in most of the projects resulting in joint publications and application of full project proposal to external funding agencies.

### b) Multi-Institutional Faculty Interdisciplinary Research Project (MFIRP)



In continuation to the recently signed MoU with National Law University Delhi (NLUD), joint project proposals have been invited from faculty members of NLUD & IITD in the interdisciplinary research areas viz: i) Law and Technology, including Operations Research-Artificial Intelligence, Forensic Science, Cyber Laws and Cybercrimes, ii) Law and Development including Official Statistics, International Trade, Migration, Climate Change, Sustainable Development and Environmental Law and iii) Law and Justice including Ethics, Alternative Dispute Resolution and Criminal Law and Justice.



IIT-Delhi signed an MoU with IIT Delhi for joint academic and research collaboration. Accordingly, joint proposals have been invited from faculty members of both the institutes in the areas of Computer Science and Engineering, AI/ML, Electronics and Communication Engineering, Computational Biology, Social Science, and Humanities, Mathematics, and Quantum Computing.



Six MFIRP projects between Ashoka University and IIT Delhi have been approved for support in the areas of biotherapeutics, facemask from natural fibers, Carbon Dioxide (CO<sub>2</sub>) Reduction, immunology, and molecular biology.

## MoU & Research Collaborations

### a) Bharat Heavy Electricals Limited (BHEL)



To connect and leverage the industrial R&D activities, BHEL signed an agreement with IIT Delhi in August 2021. The joint collaborative research in key R&D areas such as Energy, Transportation, and Transmission will be undertaken.

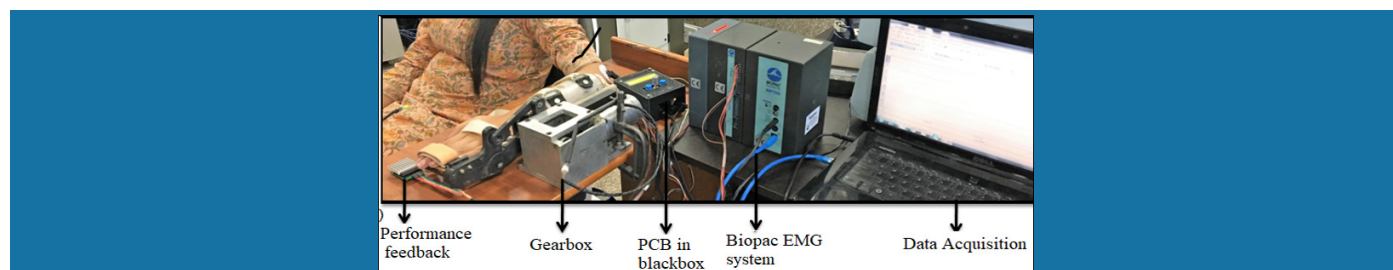
### b) Mirrorsize, USA



The Mirror size, USA executed an umbrella MoU with IIT Delhi in September 2021 for engaging research co-operation in the area of analysis of body shape and size data, development of garment size chart etc. involving AI & ML.

## Centre of Excellence

IIT Delhi, AIIMS New Delhi Jointly Establish CARE-DAT



Based on the leads of MFIRP IITD-AIIMS under the aegis of IRD, IIT Delhi and AIIMS New Delhi have jointly established "Centre for Advanced Research and Excellence in Disability and Assistive Technology (CARE-DAT)", a Centre of Excellence. This CoE is funded by ICMR for a period of five years with a mandate to design technological solutions, therapeutic protocols and clinical validation that can facilitate rehabilitation of patients with stroke.

## Webinar

As a part of celebration of "Azadi ka Amrit Mahotsav", DRDO-IIT Delhi organized a lecture on "Design, Development, and Validation of Explosive Storage Structures Developed by CFEES (DRDO)" by Dr. Prabhanjan Kumar Thakur, Scientist E, Defence Research and Development Organization (DRDO) in September 2021.

# Awards & Academic Positions

## INAE Outstanding Teachers Award



**Prof. Sukumar Mishra**

Electrical Engineering Dept.,  
IIT Delhi

## Elected as Fellow of Indian National Academy of Engineering (INAE)



**Prof. Vasant Matsagar**

Civil Engineering Dept.,  
IIT Delhi

## INAE Young Engineer Award



**Prof. Manan Suri**

Electrical Engineering Dept.,  
IIT Delhi

## Prof. S N Mitra Memorial Award 2021 of INAE



**Prof. Surendra Prasad**

Emeritus Professor, Electrical  
Engineering Dept.,  
IIT Delhi

## INSA Young Scientist Award 2021 in Mathematical Science Category



**Prof. Debdip Ganguly**

Mathematics Dept.,  
IIT Delhi

## INSA Medal for Young Scientist 2021



**Prof. R Lakshmi Narayan**

Material Science &  
Engineering Dept., IIT Delhi

## INAE Young Engineer Award 2021



**Prof. Harsha Kota**

Civil Engineering Dept.,  
IIT Delhi

Nominated as an External Member of Soldier Health and Drug Development (SHDD) Specialist Panel of Life Science Research Board

Nominated as an Expert Member to National Advisory Committee at Sree Chitra Tirummal Institute of Medical Sciences & Technology



**Prof. Shashank Deep**

Chemistry Dept.,  
IIT Delhi



**Prof. Naresh Bhatnagar**

Mechanical Engineering  
Dept.,

CRSI Bronze Medal for year 2022 in recognition of her contributions to research in chemistry

“India Green Energy Awards 2020” by Indian Federation of Green Energy



**Prof. Nidhi Jain**

Chemistry Dept., IIT Delhi



**Prof. V K Vijay**

Centre for Rural Development  
and Technology, IIT Delhi

Golden Peacock Innovative Product/Service Award 2021 by Corporate R&D Centre, BPCL

HPE's Dr. A.P.J Abdul Kalam HPC Award 2021 for R&D in HPC Applications in India



**Prof. Sreedevi Upadhyayula**

Chemical Engineering Dept.,  
IIT Delhi



**Prof. Ali Haider**

Chemical Engineering Dept.,  
IIT Delhi

Clarivate India Research Excellence Citation Awards 2021

NASI Young Scientist Platinum Jubilee Award 2021



**Prof. Arpan K. Kar**

Dept. of Management Studies,  
IIT Delhi



**Prof. N M Anoop Krishnan**

Civil Engineering Dept. & ScAI,  
IIT Delhi

# Corporate Relations

## ❖ The UQIDAR Industry Connect Workshop

The UQIDAR Industry Connect Workshop on Biotechnology & Bioinformatics was held on 9th September 2021 at IIT Delhi. Corporate Relations Office, IIT Delhi amplified the hybrid workshop's reach and impact, which witnessed more than 95 delegates participating in the workshop in virtual mode and around 25 delegates participating in physical mode.

The workshop focused on following four broad topics:

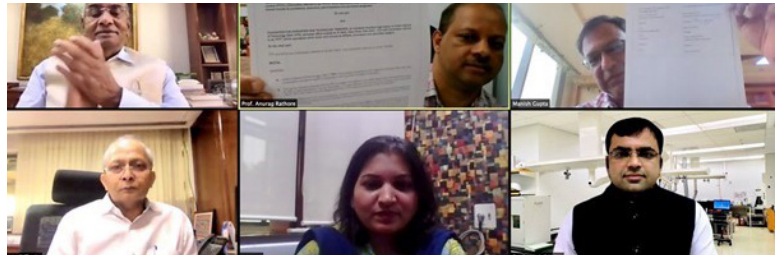
- Medical devices and diagnostics
- Therapeutics and Personalized Medicine
- Biomanufacturing
- Artificial Intelligence and Data Science in Biotechnology



(Picture: UQIDAR Industry Connect Workshop)

## ❖ IFFCO-IIT Delhi MoU

World's No.1 Fertiliser Cooperative IFFCO's (Indian Farmers Fertiliser Cooperative Limited) research & development unit, Nano Biotechnology Research Centre (NBRC) signed an MOU with IIT Delhi for Research Consultancy, Knowledge Transfer and Collaborative Projects in July 2021. The Corporate Relations Office is working closely with IFFCO and IIT Delhi faculties, who have expressed interest to collaborate on some of the topics of mutual interest.



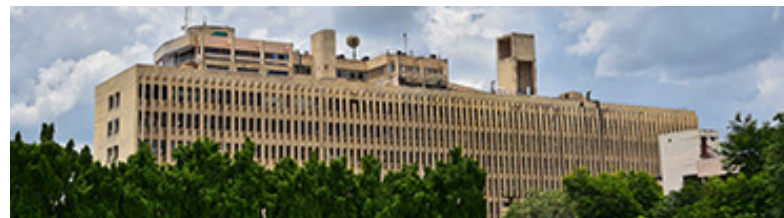
(Picture: IFFCO Signs MoU with IIT Delhi)



(Picture: JK Paper-IIT Delhi MoU)

## ❖ JK Paper-IIT Delhi MoU

JK Paper has signed an MoU with IIT Delhi for setting up JK Paper Centre of Excellence in Paper and Packaging. The MoU was signed by Mr. A.S. Mehta, President and Director, JK Paper and team from IIT Delhi led by Prof. V. Ramgopal Rao, Director, IIT Delhi; Dr. Anil Wali, Managing Director, Foundation for Innovation and Technology Transfer (FITT) and Prof. Anurag S. Rathore, Dean Corporate Relations. The CoE will bring synergy and coherence in the activities being carried out at the Institute in this domain. Under the CoE umbrella, apart from a multitude of sponsored research project, there will be executive development programme, expert lectures, training and knowledge transfer and other projects of mutual interest.



- ❖ IIT Delhi has entered into an MoU with Axperia and BFlow as partners for a research project with a funding of Rs 27.5 lakhs.

- ❖ The Japanese start up l'mbesideyou Inc. (Shozo Kamiya and Yasuhiro Nose) visited IIT Delhi campus to discuss opportunities for collaboration. Apart from their interest in research engagement, they also met Dr. Anishya Obhrai Madan, Head, Office of Career Services, IIT Delhi to deepen the association with the institute.



(Picture: Visit by the Japanese startup l'mbesideyou Inc)

# Alumni Affairs & International Programmes

## International Meetings

- A 3-member delegation from Indiana University, Bloomington visited IIT Delhi on September 09th, 2021.
- H.E. Mr. Emmanuel Lenain, Ambassador of France visited IIT Delhi on 28 September 2021.
- A 2-member delegation from Financial University under the Government of the Russian Federation visited on 01st Oct 2021.

## Events

**TechToks: An Alumni Talk Series:** Alumni Affairs at IIT Delhi has launched an alumni talk series, which will be accessible to STEM students and graduates and aims to (re)ignite the love for Science and Engineering and connect us to the rapid technological advancements we see in the world around us. Speakers would be drawn from the institute's very strong alumni base and faculty. The inaugural talk titled "An engineer's journey into entrepreneurship" was given by Arvind Jain, CEO Glean, co-Founder Rubrik (BTech/CS/96). Dr Amit Sinha, President & CTO of Zscaler (BTech/EE/94) delivered the next talk titled "Zero Trust Based Cybersecurity for Enterprises in a Cloud and Mobile World".

## Memorandum of Understanding (MoUs) signed with:

- Instituto Tecnológico de Buenos Aires (ITBA) - General and UG/PG, Argentina on 15th July 2021.
- Yarmouk University, Jordan on 06th July 2021.
- Instituto Tecnológico de Buenos Aires (ITBA)- PhD, Argentina on 04th August 2021.

## Chairs

One of the areas where we have been able to move forward significantly in this last year has been in getting 14 alumni endowed chairs established at the institute for research and teaching.

S. No	Name	Research Area	Donor
1.	Indu Shrivastava & Serla Singh Chair	Artificial Intelligence	Rupam Shrivastava and Ajay Singh
2.	Shri G. K. Chandiramani Chair for Cyber Security	Cyber Security	Suresh M. Shivdasani

## Scholarships

Several merit-cum-means scholarships were set up with most of them providing half the tuition fees (Rs 100,000) to students with family income less than Rs 9 lakhs per annum. In addition, a Named Scholars Program "The Mittal Renaissance Scholars Program" has been established. The Mittal Renaissance Scholars (MR Scholars) will be provided a scholarship of Rs 1.5 lakh per annum for upto two years. 10 students would be chosen each year in this program.

S. No	Name	Research Area	Donor
1.	AV Sankaran Scholarship	Rs 100,000 per annum	Srikant Sankaran
2.	Mittal Renaissance Scholars	Rs 150,000 per annum for 10 students	Saurabh Mittal
3.	Mrs Navlakhi Devi Scholarship	Rs 50,000 per annum	S.N. Singh

## Awards

Over a dozen awards have been set up to promote academic excellence among undergraduate and postgraduate students. Many of these awards were set up by superannuated faculty of the Institute. Of these, three awards are for best PhD thesis in specific areas.

S. No	Name	Research Area	Donor
1.	Subbarao Research Excellence in Chemical Engineering Award	Best PhD thesis in the Chemical Engg department.	D. SubbaRao
2.	Dr. Krishna Sharda Award	Recognize determination and courage shown by women students in completing their doctoral studies.	Hema and Nalin Sharda
3.	R.N. Shahi Research Excellence Award	Best PhD thesis in Geotechnical Engineering	Rakesh Shahi

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Public Relations Unit  
Indian Institute of Technology Delhi  
Phone: 011-2659-1729  
Email: [pro@iitd.ac.in](mailto:pro@iitd.ac.in)



### Designed by:

Communication Cell, CSC  
Indian Institute of Technology Delhi

Phone: 011-2659-7124

**For any suggestions, please contact us at: [pro@iitd.ac.in](mailto:pro@iitd.ac.in)**