



# INDIAN INSTITUTE OF TECHNOLOGY DELHI



Quarterly

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# NEWSLETTER

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# NEWS & EVENTS

## QS World University Rankings by Subject 2023: IIT Delhi Among the Top 50 Institutions in the World

In the 13th edition of the QS World University Rankings by Subject 2023, IIT Delhi was declared one of the top 50 institutions in the world for Engineering & Technology. The institute was ranked 48th globally with a score of 80.1 in Engineering & Technology, which is IIT Delhi's core area. Five of the academic programmes i.e. Electrical & Electronics Engineering, Computer Science & Engineering, Mechanical Engineering, Civil Engineering, and Chemical Engineering also featured among the top 100 subjects globally in the Engineering & Technology area.



## Two-Day Annual Career Fest 'Pravriddhi 2023- Expanding Horizons' Organised

The Office of Career Services (OCS), IIT Delhi, organised a two-day annual career fest, 'Pravriddhi 2023, on April 14 and 15, 2023, with theme "Expanding Horizons". This year's fest aimed to provide a platform to students to explore new career opportunities and gain perspective and valuable insights on various career avenues from industry professionals in various fields. Pravriddhi provided an excellent opportunity for organisations to engage with IIT Delhi students and find potential employees.

## Unnat Bharat Abhiyan Organised UNNATI Mahotsav and Expo

The Minister of State for Education, Government of India, Dr. Subhas Sarkar inaugurated a two-day "UNNATI" (Unnat Bharat Abhiyan Networking for National Atmanirbhar Technological Intervention) Mahotsav & Expo organised by Unnat Bharat Abhiyan in collaboration with Vijnana Bharti and YOJAK at IIT Delhi on March 17, 2023. Over 300 technologies were submitted for evaluation, of which 103 were selected to be demonstrated during the UNNATI Mahotsav. The technologies were identified on the basis of a survey conducted by the students in villages, where problems were identified and solutions in the form of technologies were prepared.



## Australian Prime Minister Mr. Anthony Albanese Visits IIT Delhi; Addresses Students

The Prime Minister of Australia, Mr. Anthony Albanese, visited IIT Delhi on March 10, 2023, and addressed the students, faculty, and staff members. Mr. Anthony Albanese said, "It is such an honour to be here at what is not just one of India's most prestigious centres of higher education... but a place of world renown and one that is publicly run and funded."

During his visit, the Australian PM witnessed some of the state-of-the-art technologies developed by the IIT Delhi scientists.

- Robotic Exoskeleton Device for Upper Limb Rehabilitation
- Smart Solutions for Building Energy Management
- Lignocellulosic Biomass Valorisation for Sustainable Bio-refineries
- Vanadium Redox Flow Battery

## IIT Delhi, HORIBA India Sign MoU to Support Students with Disabilities

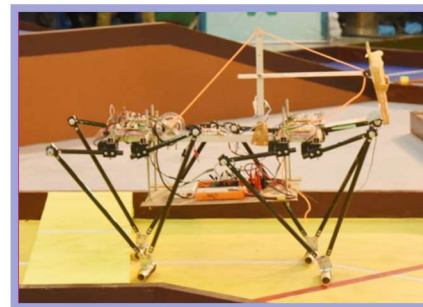
Signed under the aegis of the Office of Corporate Relations at IIT Delhi, the MoU will support the PwD students through the institute's Office of Accessible Education (OAE). Under this Corporate Social Responsibility (CSR) support by HORIBA India, assistive devices, including hearing aids, braille embosser printers, keyboard trays and braille signages shall be provided to the students with disabilities with the aim to create a congenial environment for them to make their academic journey easy.



# NEWS & EVENTS

## IIT Delhi Launches an Inter-Disciplinary M. Tech. Programme in Robotics

The two-year programme will be jointly offered by the Department of Computer Science & Engineering, the Department of Electrical Engineering, the Department of Mechanical Engineering, and the Yardi School of Artificial Intelligence in association with the Center of Excellence on Biologically Inspired Robots and Drones (CoE-BIRD). There are 25 seats in this programme to which admissions will be through GATE, programming test, and interview. The first batch of the programme will start in the academic year 2023-24.



## Training Programme on R&D Equipment Organised on IIT Delhi Sonepat Campus in Collaboration with NIT Warangal

IIT Delhi and NIT Warangal jointly organised a seven-day training programme called 'Synergistic Training Programme Utilizing the Scientific and Technological Infrastructure (STUTI)' funded by DST, Govt, on research and development (R&D) equipment on April 11-17. The programme was organised under the aegis of the Central Research Facility, IIT Delhi, and it was aimed at providing information on the principles, instrumentation, and applications of advanced research equipment. The programme witnessed participation from various institutions across the country.

## Cultural Festival "Rendezvous" and Science & Technology Festival "Tryst 2023" Organised

IIT Delhi students organised 'Rendezvous' from March 9-12, 2023. Students from the several colleges in Delhi-NCR region participated in the fun-filled fest. Before the cultural fest, the annual science, technology, and management festival of IIT Delhi, "Tryst," was organised by the students from March 4-6, 2023. The event, which started 30 years ago, has gained huge popularity ever since. Major highlights of the Tryst 2023 included an exhibition by ISRO; an auto expo with brands like Lamborghini, Aston Martin, Ducati, and Mercedes; a startup expo; the India 2047 Ideation Challenge; robotic competitions; and the display of drone technology among several other attractions.



## IIT Delhi Alumnus Alok Aggarwal Endows Chair for Research in ESG Area

IIT Delhi alumnus Mr. Alok Aggarwal (Class of 1986, Civil Engineering) has endowed the "Rama Kanta Chair" in the environmental, social, and governance (ESG) area. The Rama Kanta chair established in the Department of Civil Engineering will enhance the institute's forte towards promoting excellence and leadership in teaching, research, and development in the area of ESG and sustainable development. The chair also aims to facilitate wider and deeper interaction between the industry and faculty, students at IIT Delhi.

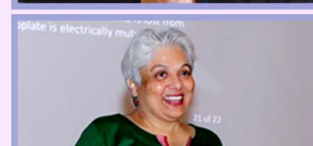
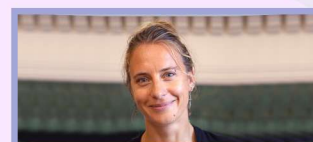
## Institute Lecture Series

**April 10, 2023-** Prof. Friederike Otto, a leading expert in climate science and currently a faculty of Natural Science, The Grantham Institute for Climate Change, Imperial College London, delivered an Institute Lecture title "Understanding the era of loss and damage - opportunities and challenges in attributing extreme weather/climate events and their consequences".

**March 15-** Prof. Shubha Tole, Tata Institute of Fundamental Research, delivered an institute lecture titled, "The Circuits of Sensation: How we Perceive the World", to mark the International Women's Day.

**February 28-** In commemoration of National Science Day, Mr Achim Steiner, Administrator of the United Nations Development Programme (UNDP) delivered an institute lecture on the role of Science, Technology and Innovation to Achieve the Sustainable Development Goals.

**February 16-** Mr. Raghuram Rajan, a distinguished IIT Delhi alumnus; former Governor of RBI; former Chief Economist of the International Monetary Fund and currently, Katherine Dusak Miller Distinguished Service Professor of Finance in the Booth School at the University of Chicago delivered an institute lecture.





# NEWS & EVENTS

## Smart Monitoring System to Ensure Safety of Persons Working at Height to be Developed

To develop a Smart Monitoring System (SMS) to detect and alert users about unsafe conditions while working at height, Karam Safety Private Limited (KSPL), one of the leading global fall protection companies, and FITT, an industry interface organisation at IIT Delhi, have signed a memorandum of understanding (MoU). The project will be led by Prof. Husain Kanchwala from the Centre for Automotive Research and Tribology (CART) and Prof. Sunil Jha from the Department of Mechanical Engineering at IIT Delhi.



## IIT Delhi Scientists Design Time Capsule for the Department of Posts

Prof. Vikrant Karra and Prof. Jayant Jain from the Department of Materials Science and Engineering at IIT Delhi assisted the Department of Posts with the design, analysis, and fabrication of a state-of-the-art time capsule for the five-day National Philately Exhibition "AMRITPEX 2023" held in February at Pragati Maidan in the national capital. The time capsule, capable of storing letters or postcards in excess of 750 in number, was designed with the aim of capturing what the citizens of India think today and how they visualise the country's future. The capsule will be revisited in 2047, the centenary of India's independence, to see how things turned out.

## Second Batch of STEM Mentorship Programme for High School Girls Inaugurated

IIT Delhi inaugurated the second batch of the STEM Mentorship Programme for High School Girls (Class 11) on February 10. The second batch of the STEM Mentorship Programme will consist of two phases. During the first phase, the 32 selected participants from KV's, government and private schools in Delhi will learn from online lectures and demonstrations by faculty and students of IIT Delhi on diverse STEM topics. In the second phase, to be held in May, the participants will visit various IIT Delhi labs for a week to get first-hand exposure to cutting-edge research conducted at the institute.



## Mobility for All: Continental with IIT Delhi Develop a Solution for Visually Impaired to Access Public Buses

Technology company "Continental", IIT Delhi, and non-profit technology start-up Raised Lines Foundation (RLF) have come together for the deployment of "OnBoard", a technology solution for assisting visually impaired people to board public transport buses. RLF was incubated at IIT Delhi, supported by the Ministry of Electronics and Information Technology (MeitY), and OnBoard development was sponsored by the Department of Science & Technology (DST), Government of India.

## Media Delegation Visits IIT Delhi

A delegation of 20 media persons from the UAE, Bahrain, Oman and Saudi Arabia was at IIT Delhi on January 16, 2023, for a familiarisation visit organised by the Ministry of External Affairs, Government of India.

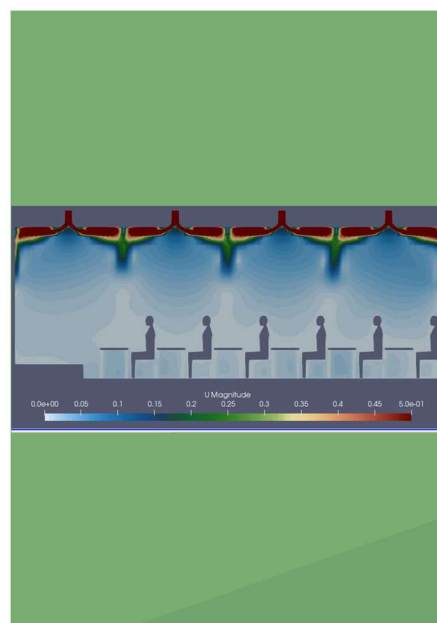


# RESEARCH & INNOVATION

## Researchers Estimate Probability of Getting Infected with COVID-19 in Indoor Spaces

Despite sufficient indications of its culpability, there has been a lack of data to quantify the role played by the breathing-out of pathogens in the spread of SARS-CoV-2 since the beginning of the COVID-19 pandemic. Now, IIT Delhi researchers have demonstrated a procedure for estimating the probability of infection of a healthy occupant when living in the same enclosed space as a COVID-19 infected person breathing out pathogens. This has been shown in a recently published study titled "MODELLING OF DISPERSION OF AEROSOLIZED AIR-BORNE PATHOGENS EXHALED IN INDOOR SPACES" by Mr. Praveen Sharma (M.Tech. student, who has now graduated), Prof. Supreet Singh Bahga and Prof. Amit Gupta (Department of Mechanical Engineering, IIT Delhi) in the journal "Physics of Fluids" (<https://aip.scitation.org/doi/10.1063/5.0142869>). This is one of the first demonstrations of estimating the likelihood of infection from a purely fluid dynamics perspective and considers the role of many occupants that affects the pathogen's spread. The researchers performed realistic simulations of air flow in two representative IIT Delhi classrooms with a large number of occupants. The simulations were used to compute the dispersion of SARS-Cov-2, and to estimate the likelihood of infection faced by other occupants seated at various locations.

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



## Highly Efficient Spintronics-Based Neuromorphic Hardware Developed

A research team led by Prof. Pranaba Kishor Muduli at IIT Delhi and Prof. Debanjan Bhowmik at IIT Bombay has built a new neuromorphic hardware using magnetic materials. The device is capable of storing data even when the power is off. It functions similar to a synapse in the neurological system. The findings are published in ACS Applied Electronic Materials (Paper Link-<https://pubs.acs.org/doi/full/10.1021/acsaelm.2c01488>). The device consists of an ultrathin layer of cobalt, fabricated using state of art facilities at IIT Delhi. Thickness of the layer used are in nano-meter range, which is 80,000-100,000 times smaller than human hair. The fabrication needs enormous precision; hence it is carried out in an ultra-high vacuum chamber containing nearly no air molecules. The experimental work has been carried out mainly by Mr. Ram Singh Yadav, a PhD student at the Department of Physics, IIT Delhi, and jointly supervised by Prof Pranaba Kishor Muduli and Prof Debanjan Bhowmik. This is the first experimental demonstration of neuromorphic device using magnetic materials from India. "We have high hopes that the study contributes significantly to both the India Semiconductor mission as well as Make-in-India mission of the government of India," Prof. Pranaba Kishor Muduli, Department of Physics, IIT Delhi, said.

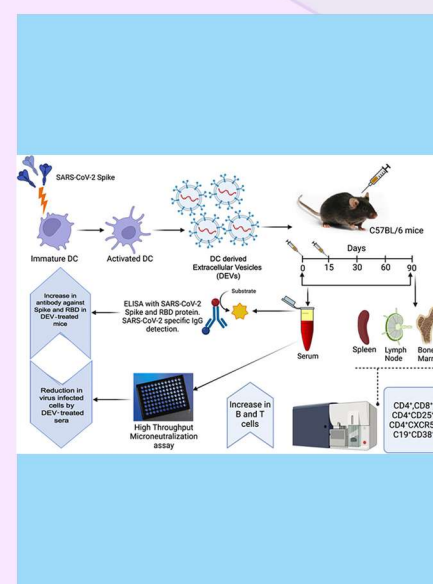
Read more at: [https://home.iitd.ac.in/show.php?id=36&in\\_sections=Research](https://home.iitd.ac.in/show.php?id=36&in_sections=Research)



## Efforts to Develop a Next-Generation COVID-19 Vaccine Give Promising Results in Animal Trial Phase

Researchers at IIT Delhi led by Prof. Jayanta Bhattacharyya, Centre for Biomedical Engineering, IIT Delhi, have taken a step forward towards next-generation vaccine for COVID-19. Unlike currently used vaccines, which use synthetic materials or adenovirus to package and deliver antigens, the IIT Delhi researchers used the body's own immune cells in developing a nano-vaccine. The immune response elicited by this vaccine was tested in mice. The results showed that it generated antibodies against the COVID-19 virus and was more effective as compared to free antigen. "In fact, when injected with a 10 times lower dose compared to the free antigen, the nano-vaccine was equally efficient in raising antiviral immunity. Interestingly, it showed a durable immune response, including the generation of memory cells, which can act as a safeguard for the next infection," Prof. Jayanta Bhattacharyya, Centre for Biomedical Engineering, IIT Delhi, said. The study titled "SARS-CoV-2 Spike Protein-Activated Dendritic Cell-Derived Extracellular Vesicles Induce Antiviral Immunity in Mice" to this effect, carried out in collaboration with the Regional Centre for Biotechnology, Faridabad, was published in ACS Biomaterials Science & Engineering (10.1021/acsbmaterials.2c01094).

Read more at: [https://home.iitd.ac.in/show.php?id=35&in\\_sections=Research](https://home.iitd.ac.in/show.php?id=35&in_sections=Research)





# INDUSTRIAL RESEARCH AND DEVELOPMENT

## Sponsored Projects & Consultancy Jobs Undertaken Through IRD Unit (January - March 2023)

- 93 Sponsored Projects with a total sanctioned value of Rs 123.74 Crores
- 86 Consultancy Jobs with a total sanctioned value of Rs 9.97 Crores

### High Value Sponsored Projects (sanctioned value Rs 1.00 Cr and above) (January - March 2023)

Title	Sponsoring Agency	Sanctioned Funds (in Crores)
Nutrition Innovation Hub for LSFF Scale up	Bill & Melinda Gates Foundation, United States	Rs 18.93
Creation of Centre of Excellence (CoE) in Advanced Ultra-Precision Optics Manufacturing Technologies	Department of Science and Technology (DST)	Rs 11.87
Design and Development of a prototype for demonstration of Comprehensive Ocean Area Surveillance Technology (COAST)	Indian Navy, Ministry of Defence, GoI	Rs 9.34
Design and Development of Treatment Plants for Explosives Manufacturing Industry Wastewater	DRDO, Ministry of Defence, GoI	Rs 2.00
Experimental Characterization and CFD Simulations of Three-Phase Slurry Flows in Slurry-Phase Hydrocracking Reactor	Kellogg Brown & Root LLC, United States	Rs 1.58
Development and Demonstration of Clean Combustion Devices using Processed Biomass and Assessment of Potential Health and Environmental Benefits	Swami Samarth Electronics Pvt. Ltd., India	Rs 1.42
Nanorobotic drug delivery system & Lab-on-chip platform development	I-Hub Foundation for Robotics (IHFC)	Rs 1.29
Novel computational algorithms for high Reynolds number fluid-structure interaction problems (Inspire Faculty Fellowship awarded to Dr. Mohd. Furquan)	Department of Science and Technology (DST)	Rs 1.12
R&D Studies on High Performance Concrete For Sluice Spillways of Dams and Barrages	SJVN Limited, India	Rs 1.10
Centre of Excellence (CoE) Proposal on Membrane Technologies for Desalination, Brine Management, and Water Recycling	Department of Science and Technology (DST)	Rs 1.04

## Multi-Institutional Faculty Interdisciplinary Research Projects (MFIRP)

### A. University of College London (UCL)



UCL and IIT Delhi have jointly supported seven seed grant research projects in the areas of Sustainable Solar Fuel, Regional Hydroclimate, Transnational Pedagogy, Reactor Configuration for Nanoparticles, Urban Regeneration, Semiconductors and Superalloys.

### B. The University at Buffalo (UB)



Eleven research projects in the areas of Biomedicine-Biotechnology, Nanomaterials Photonics, and Artificial Intelligence/ Robotics have been jointly approved for support by UB and IIT Delhi.

### C. National Yang Ming Chiao Tung University (NYCU), Taiwan



NYCU and IIT Delhi approved seventeen research projects in the second call for proposals in the areas of Semiconductors, Medical Sciences & Technology, Civil Engineering and Nanomaterial for Biosensors.

# INDUSTRIAL RESEARCH AND DEVELOPMENT



## D. Regional Centre for Biotechnology

The Regional Centre for Biotechnology (RCB) and IIT Delhi jointly approved four research projects in the broader areas of Agricultural Disease management, Cancer Identification and Treatment.

## Memorandum of Understanding (MoU)



### A. Arun Duggal Centre of Excellence for Research in Climate Change and Air Pollution

The MoU between IIT Delhi and the Arun Duggal Centre of Excellence for Research in Climate Change and Air Pollution (formerly CERCA) was renewed on January 9, 2023, for carrying out research in climate and air pollution in Delhi NCR and other parts of the country.



### B. Ministry of Micro, Small and Medium Enterprises, Government of India (MSME)

signed an MoU under the MSME Innovative (Incubation, Design, IPR) Scheme, a component of the MSME Champions Scheme, on February 6, 2023. The objective of this collaboration is to provide advice and assistance to MSMEs in process and product design & development and value engineering, including improvements in the design and cost of a developed product, to achieve greater competitiveness.

## Centres of Excellence (CoE) Established



**A. Nayara Energy Limited** - An MoU was signed between Nayara Energy Limited and IIT Delhi on March 9, 2023, for setting up a Centre of Excellence on Process Safety and Risk Management in the areas of oil and gas, process industries, and the hydrogen economy.



**B. The Yardi Centre of Excellence** for Sustainable Infrastructure was reviewed under the chairmanship of the Director, IIT Delhi. During the review held on February 8, 2023, with the presentation of Prof. Ashu Verma, Co-coordinator of the CoE, and other members, the performance of the Yardi CoE was found to be very good. The CoE is also looking for continuation with further support from M/s Yardi.



**C. IIT Delhi and Central Electricity Authority (CEA)** signed an MoU on March 17, 2023, for initiating collaborative research and academic programmes. The objectives of this collaboration would be the development of R&D and academic programmes with CEA/ Ministry of Power (MoP)/ Central Power Research Institute (CPRI)/ National Power Training Institute (NPTI), Faridabad leading to various degree programs towards augmentation of human resources at these organizations including the creation of a Chair Professorship.



### D. Collaboration between UB and IIT Delhi

The State University of New York at Buffalo (UB) and IIT Delhi signed an MoU on March 20, 2023, for pursuing collaborative research in areas of quantum photonics and to set up a Centre for Excellence (CoE) on Quantum Photonics at the Optics and Photonics Centre (OPC). UB will be supporting a seed fund of USD 250,000 for a period of five years to this CoE for research and student exchange in this domain.

## IRD Student Startup Action

Four IRD Student Startup Action projects have been approved in the areas of Flow Sense Irrigator, High Performance Coated and Laminated Textile for Inflatable Applications, Biocomposites Mobile Production for Structures, and Intelligent Controller for Light Electric Vehicles.

## Research Publications, Patent and Technology Transfer

In January - March 2023, nearly 1166 research papers were published, 16 patents were filed, and eight technologies were transferred.

## ONR Global Meeting and Research Funding

On March 17, 2023, the R&D Unit, IIT Delhi, organised a global meeting with delegates from the Office of Naval Research (ONR), USA, and faculty members from the State University of New York at Buffalo (UB) and IIT Delhi to discuss possibilities of research funding in areas of photonics, biotechnology, and Artificial Intelligence. Senior ONR officials who participated in this meeting discussed various possibilities for funding research in these areas.



# ALUMNI RELATIONS



## Endowment Merit Fellowship Award Ceremony

The Office of Alumni Relations and the Endowment Office organised an Endowment Merit Fellowship Award ceremony for all the selected candidates. A total of 120 students received this fellowship, i.e., 30 from each year. The number of awardees has gone up from 30 to 120, with an increase of 90 students. Each student is provided with a grant of Rs 1 lakh.

## Mr. Ananth Krishnan Commits Rs. 2 Cr to the Yardi School of Artificial Intelligence

A distinguished IIT Delhi alumnus, Mr. Ananth Krishnan, committed to donating Rs 2 crore to the Yardi School of Artificial Intelligence by establishing a chair in the name of "Shanthi and K Ananth Krishnan Young Faculty Chair Professor in Artificial Intelligence" and a fellowship in the name of "Mrs. Vijayalakshmi Mr. TKA Iyer Fellowship." Mr. Krishnan received his Master of Science Degree in Physics from IIT Delhi in 1985 and his Master of Technology Degree in Computer Science from the institute in 1988. He is the Executive Vice President and Chief Technology Officer at TCS.

## Batch of 1968 Endows the Preeti Monteiro Scholarship

The batch of 1968 has endowed the Preeti Monteiro Scholarship in memory of their batchmate Ms. Preeti Monteiro. She was the first ever woman electrical engineering graduate of IIT Delhi and also went on to have a distinguished academic career at the Indian Institute of Science, Bangalore. The scholarship equal to half the tuition fee will be given to a UG student of B.Tech./ Dual degree program.

### New Scholarships/Fellowships (January-March 2023)

Scholarship Title	Donor Name	Area
CSM Scholarship	CSM Technologies Pvt. Ltd.	Scholarship to be given to one UG student of the BTech/Dual degree program.
Agrawal Metal Works Scholarship	Agrawal Metal Works Pvt. Ltd.	The objective is to give a scholarship of Rs 2 lakhs each to 12 UG students of Dept. of Materials Science & Engineering with a CGPA of more than 7 and a family income of Rs 5 to 8 lakhs per annum.
Urmila Singh Scholarship	Mr. Asit Baseen	To give an annual named scholarship equal to half the tuition fee to a UG student of a BTech/Dual degree program preferably from Bihar and Maharashtra with a family income of Rs 5 to 9 lakhs per annum and highest JEE (Advanced) rank.

### New Chairs Instituted by Alumni and Others (January-March 2023)

Chair Title	Donor Name	Area
Bhandari-Sankhla Chair	Mr. Sandeep Bhandari (Alumnus)	To promote excellence and leadership in teaching, research, and development in the field of clean energy, including but not limited to research in the areas of green hydrogen production, hydrogen infrastructure development, and carbon dioxide management technology.
Venus Chair	Venus Safety & Health Pvt. Ltd. (Corporate)	To promote excellence and leadership in teaching, research, and development in the field of fibrous air filters at IIT Delhi.

## Town Hall Session with Mr. Jayant Sinha

The student club of Alumni Relations hosted a town hall session with Shri. Jayant Sinha, Hon'ble Member of Parliament and also an IIT Delhi alumnus (B. Tech., Chemical '85). A large number of students attended the interactive session.



## Panel Discussion on Career for Women in STEM

A panel discussion was organised on "Career for Women in STEM". The event saw participation from IIT Delhi alumni Anju Gupta (B.Tech, Civil '93), Co-Founder and President, IvyCamp; Namita Gupta (B.Tech+M.Tech, CS '01), Founder, Airveda; and Juhee Garg (B.Tech, CS '98), Director of Product Management, Microsoft. Dr. Shuchi Sinha, Associate Professor, DMS, IIT Delhi, moderated the event.

# CORPORATE RELATIONS

❁ A Memorandum of Understanding (MoU) was signed with **ShortHills Tech** (Gold Microsoft Partner) to support students with disabilities. Signed under the aegis of the Office of the Corporate Relations, IIT Delhi, this initiative will support the PwD students through the institute's Office of Accessible Education (OAE). The OAE is working on providing an inclusive environment for students with disabilities and takes care of extending special assistance ranging from academics to infrastructure requirements of the students.

❁ **CSM Technologies Ltd.**, a Bhubaneswar headquartered IT firm, has inked an MoU with IIT Delhi to establish an annual scholarship for a meritorious student from the economically weaker section of society. This scholarship aims to support students who demonstrate exceptional academic potential and provide them with the financial assistance they need to succeed in their studies.



(Picture: CSM MoU signing ceremony)

❁ **MAS Innovations (Private) Limited** is a Sri Lanka -based global apparel tech conglomerate providing concept-to-delivery solutions for the world's leading apparel brands. They have signed an agreement with IIT Delhi to collaborate on projects spearheaded by SMITA Research Lab on emerging technologies such as nanotechnology based finishes, wearable electronic textiles, novel composite fibers, nano fibers-based products, atmospheric pressure plasma processing, functional fibers, Janus particles and biomedical products.

❁ Mr. Alan Donnelly, Executive Chairman, Sovereign Strategy and Chairman, G20 Health and Development Partnership and Ms. Hatice Beton, CEO, Sovereign Strategy and Executive Director of the G20 Health and Development Partnership visited IIT Delhi. This visit was facilitated by the Corporate Relations office on 15th February to explore collaboration opportunities. The delegation visited IITDAIA Foundation for Smart Manufacturing Centre of Excellence and a couple of startups at the Research and Innovation Park on the campus. The visit emphasized their commitment to support academic research and bridge the gap between research and industry application.



(Picture: Visit by Sovereign Strategy's Delegation)

❁ **United Nations Industrial Development Organisation (UNIDO)**, a specialized agency in the United Nations system with a unique mandate to promote and accelerate sustainable industrial development, signed an agreement with Prof. Agam Gupta, Department of Management Studies, on "Visualization of data" collected under UNIDO's National Manufacturing Innovation Survey (NMIS).

❁ **Volvo Energy**, the Volvo Group's newest business area, represented by Mr. Daniel Troedsson, Head of Battery Optimization and Monitoring - Technology, and Mr. Malay Jana, Head of Global Battery Expert, visited IIT Delhi. This visit was primarily to understand and discuss research in the areas of battery and sustainability with Prof. Amit Gupta and his team from the Department of Mechanical Engineering. The team also interacted with faculty members of the Centre of Automotive Research and Tribology (CART).



(Picture: Volvo Energy's Delegation visited CART)



# INTERNATIONAL PROGRAMMES

## International Visits

- Prof. Colin Bain, Pro Vice- Chancellor (Research), from Durham University - 04th January 2023
- Prof. Bill Flanagan, President & VC of University of Alberta - 10th January 2023
- H.E. Mr. Amr Talaat, Minister of Telecommunication & IT from Egypt - 11th January 2023
- The Ambassador of UAE to India, HE Dr. Abdunasser Jamal Alshaali - 1st February, 2023



(Photo- President & VC of University of Alberta)



(Photo- Egyptian Delegation)



(Photo- UAE's Delegation)



(Picture- Argentinian Delegation)

- H.E. Mr. Daniel Filmus, Minister of Science, Technology and Innovation of Argentina - 7th February, 2023
- Prof. Jeffery, Vice Chancellor, University of York, UK - 15th February, 2023
- 40 foreign students under the 63rd Know India Programme (KIP) visited IIT Delhi - 5th January, 2023
- 40 foreign students under the 64th Know India Programme (KIP) visited IIT Delhi - 20th January, 2023
- Prof. Dawn Freshwater, Vice Chancellor, University of Auckland - 23rd February, 2023
- 40 foreign students under the 65th Know India Programme (KIP) visited IIT Delhi - 23rd February, 2023
- Dr Lara Allen, Director of the Centre for Global Equality (CGE), UK - 27th February, 2023
- Prof Richard Follett, Deputy Vice Chancellor Global Engagement, University of Exeter, UK - 03rd March, 2023
- Chancellor Cynthia K. Larive, University of California, Santa Cruz, USA - 21st March, 2023
- Chargé d'Affaires Ambassador Elizabeth Jones, US Embassy - 23rd March, 2023

## Memorandum of Understanding (MoUs) with:

- RWTH Aachen University, Germany - 4th January 2023.
- Amirkabir University of Technology, Iran - 06th January 2023.
- University of Peradeniya, Sri Lanka - 09th January 2023.
- University of Alberta, Canada - 10th January 2023.
- AARO multiple countries - 10th February 2023.
- University of Auckland - 22nd February 2023.

## Notable Events/Workshops

a) UK Foreign Minister James Cleverly inaugurated the 'Young Professionals Scheme' at IIT Delhi on 1st March, 2023. The scheme is said to be an ambitious new partnership between the United Kingdom and India that will allow up to 3,000 British and 3,000 Indians each year to live and work in each other's country for up to two years.



(Photo: UK Foreign Minister James Cleverly)

b) A five-day inaugural workshop on Franco Indian Health Campus was organized at IIT Delhi from February 20-24, 2023, at IIT Delhi in collaboration with Sorbonne University. Experts from both institutions working in the field of Robotics, Bioinformatics, AI, Digital Health, Neurobiology, etc. participated in the workshop.



# AWARDS & EXCELLENCE

## **Prof. Vamsi Krishna Komarala, Energy Science and Engineering Department**

Received Solar Challenge Award 2021 with a research grant of Rs 12.36 cr from the Technology Mission Division of the DST for developing "Industrial scale high-efficiency silicon heterojunction solar cells".



## **Prof. Anil K. Saroha, Chemical Engineering Department**

Received ICI India Ltd. Award 2022 for Excellence in Process or Product Development. Elected as President of the Indian Institute of Chemical Engineers, in its Annual Session held at HBTU, Kanpur.

## **Prof. Jatindra K Sahu, Centre for Rural Development & Technology**

Conferred with "Prof. Jiwan Singh Sidhu Award" for the year 2021 for his achievements and contributions in the area of Food Science & Technology by the Association of Food Scientists & Technologists (India).



## **Prof. Bijay P. Tripathi, Materials Science & Engineering Department**

Selected for INSA Young Scientist Award 2022.

## **Prof. Chinmoy Kumar Hazra, Chemistry Department**

Received 'Thieme Chemistry Journals Award' for 2023.



## **Prof. Tarak Karmakar, Chemistry Department**

Awarded Molecular Physics Early Career Researcher Prize.

## **Prof. V. Ramgopal Rao, Electrical Engineering Department**

SEE-India Life Time Achievement Award by the Society for Engineering Education India.



## **Prof. Abhijit Majumdar, Textile and Fibre Engineering Department**

Received 'Eminent Engineer Award' from the Institution of Engineers (India) during the 35th National Convention of Textile Engineers held in Kolkata.



# AWARDS & EXCELLENCE



**Prof. Manabendra Saharia, Civil Engineering and Yardi School of AI**

Included in the list of Geospatial World 50 Rising Stars for the Year 2023.

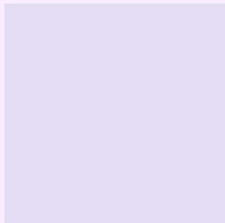
**Prof. Sovik Das, Civil Engineering Department**

Appointed as Associate Editor in the section of Chemical Engineering of Heliyon, published by Cell Press.



**Prof. Varsha Singh, Humanities and Social Sciences Department**

Invited to join the editorial board of the Journal of Experimental Psychology: Applied, published by the American Psychological Association (APA).



**Prof. A. K. Kar, Department of Management Studies**

Invited to the editorial board of Government Information Quarterly.



**Prof. Varun Ramamohan, Mechanical Engineering Department**

Joined the editorial board of the Journal of Simulation as an Associate Editor.



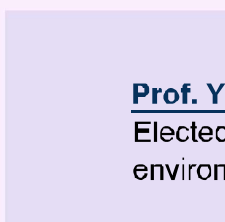
**Prof. Dhanya C. T., Civil Engineering Department**

Appointed as an Associate Editor of the Earth's Future, a journal of American Geophysical Union (AGU) published by Wiley.



**Prof. Srinivasan Venkataraman, Design Department**

Appointed as one of the Associate Editors of the International Journal of Design Creativity and Innovation of The Taylor & Francis publications.



**Prof. Yama Dixit, Centre for Atmospheric Sciences**

Elected to the editorial board of The Holocene journal that publishes on recent environmental changes.



# CONTINUING EDUCATION PROGRAMME (CEP)

CEP IIT Delhi, a statutory body for conducting certificate programmes and issuing certificates in the quarter ending March 2023 administered the below activities.

**A. 20 Programmes** (08 online CEP under eVIDYA@IITD initiative; 09 sponsored programmes and 03 on-campus programmes) were notified in the quarter (January -March 2023).

**B. 16 Programmes** with **1378 enrolled** participants listed below in Table 1 are ongoing and are under academic delivery.

S.No	Programme Title (Department/School/Centre)	Sponsored/ Open Participation
1	Advanced Programme in Electric Vehicle (EV) Technology (Chemical)	Open Participation (Online)
2	AI and Machine Learning for Industry (School of AI) (Batch-I)	Open Participation (Online)
3	Data Science and Decision Science (Management Studies) (Batch-I)	Open Participation (Online)
4	Data Science and Machine Learning (School of AI) (Batch-V)	Open Participation (Online)
5	Design Thinking for User Experience (Design) (Batch-I)	Open Participation (Online)
6	Digital Marketing (Management Studies) (Batch-4)	Open Participation (On Campus)
7	Executive Management Programme in Strategic Management (Management Studies) (Batch-I)	Open Participation (Online)
8	Finance for Non-Finance Executives (Management Studies)	Open Participation (Online)
9	Fin-Tech (Management Studies) (Batch-I)	Open Participation (Online)
10	Joint Diploma Programme in Visionary Leaders for Manufacturing (VLFM-Batch -V) (Mechanical)	Open Participation (Jointly with NITIE)
11	LEAP-Cohort A (Management Studies)	Sponsored (NIIT Ltd)
12	LEAP-Cohort B (Management Studies)	Sponsored (NIIT Ltd)
13	Machine Learning and Deep Learning (Electrical) (Batch-I)	Open Participation (Online)
14	Project Management (Management Studies) (Batch-V)	Open Participation (Online)
15	Quantum Computing and Machine Learning (Bharti School) (Batch-II)	Open Participation (Online)
16	Start-up Boot Camp (Management Studies) (Batch-I)	Open Participation (Online)

**C. 11 Programmes** benefiting **616 participants** listed below in Table 2 were concluded.

S.No	Programme Title (Department/School/Centre)	Sponsored/ Open Participation
1	Advanced Programme in E-Vehicle Technology (Chemical) (Batch-II)	Open Participation (Online)
2	Data Science and Machine Learning (School of AI) (Batch-IV)	Open Participation (Online)
3	Executive Management Programme in Entrepreneurship Development (Management Studies) (Batch-II)	Open Participation (Online)
4	Executive Programme in Advanced Project Management (Management)	Open Participation (Online)
5	Executive Programme in Supply Chain Management and Analytics (Management Studies) (Batch-I)	Open Participation (Online)
6	High-end Workshop on Joining of Advanced Materials (Mechanical)	Sponsored (SERB)
7	IBRO Spring School on Computational Neuroscience & AI (Electrical)	Sponsored ( IBRO)
8	One-day workshop cum Training: Highway Safety in India-Trends, Principles, Standards and Practices (TRIPP)	Sponsored (MoRTH)
9	One-day workshop cum Training: Planning and Design of Bus Transportation Systems (Civil)	Sponsored (MoRTH)
10	One-day workshop cum Training: Traffic Management in Indian Cities- Practices, Monitoring and Road Safety Enforcement (Civil)	Sponsored (MoRTH)
11	Operations Management and Analytics (Management Studies) (Batch-III)	Open Participation (Online)

**D. Under the Indian Technical and Economic Cooperation (ITEC)**, a prestigious initiative of the Ministry of External Affairs (MEA), Government of India, IIT Delhi concluded 02 programmes viz. Electrochemical Energy Storage for Electric Vehicle and Renewable Energy Systems; Energy System Security and Net Zero Emission. Forty-five foreign participants from 29 countries joined the programmes.

**E. The Summer Faculty Research Programme (SFRF) 2023** was launched in January. Faculty fellows from various engineering and science institutes other than IIT Delhi were invited to come and spend the summer (May-July) pursuing research under the guidance of IIT Delhi faculty mentors. 135 IIT Delhi faculty members have shown interest in guiding the fellows.





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