

A New Frontier for the
U.S.-India
Partnership



INDIAN INSTITUTE OF TECHNOLOGY DELHI NEWSLETTER

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NEWS UPDATES

IIT Delhi Releases 'Research Impact Report' to Mark 67th Foundation Day

On January 27, 2025, IIT Delhi released a 'Research Impact Report' to mark the Institute's 67th Foundation Day. The Research Impact Report talks about the Institute's contribution to nation building through various research and innovations in the last seven years by IIT Delhi faculty and students. The report was released during the Foundation Day event by Ms. Jaya Jagadish, Country Head & SVP, Silicon Design Engineering, AMD India Pvt. Ltd., and Prof. Rangan Banerjee, Director, IIT Delhi.



The Research Impact Report gives a glimpse of successful start-ups, important technologies developed and licensed to industry, high-impact research in different areas of science and technology published in leading journals, international collaborative research projects with leading universities in the world, and finally several research stories featuring cutting-edge research, technology, and product developments, as well as research projects of societal relevance undertaken by faculty and students of IIT Delhi, all during the period 2018–2024. This period also corresponds to the award of the "Institute of Eminence (IoE)" status to IIT Delhi by the Government of India. (Research Impact Report: <https://shorturl.at/DX3ga>).

Prof. Rangan Banerjee, Director, IIT Delhi, presented key highlights of the Research Impact Report at a press conference.



- Impactful research: In the last 7 years, the Institute has undertaken 5100 + sponsored research projects with cumulative funding of Rs. 2340 Cr. and about 3000 consultancy projects worth ~ Rs. 300 Cr.
- 147 startups incubated at IIT Delhi by its Faculty and Alumni in last 7 years in the areas of Agritech, AL/ML/IoT, IT, Cybersecurity, automotive, bio-tech, healthcare/med-tech, EV/E-mobility, drones, space technology, sustainability and many more.
- Strong International Research Collaboration with Leading Universities:
 - a) 271 international collaborative research projects funded by different agencies.
 - b) Launched joint seed funding program to intensify international research collaborations: 139 international collaborative projects funded.
- Several Technologies Transferred to Industry, for Example:
 - a) Single-step, probe-free assay for Covid-19 - easily scalable, affordable (less than USD 5 per test).
 - b) Advanced Ballistics and High-energy Defeat (ABHED) Body Armor for Indian Armed Forces.

Ms. Jaya Jagadish, Country Head & SVP, Silicon Design Engineering, AMD India Pvt. Ltd., participated in a fireside chat on leadership and innovation in Silicon Design Engineering during the 67th Foundation Day celebrations.



IIT Delhi, University of Exeter Host Joint Symposium on Sports Healthcare Science and Engineering

The symposium, held on 30th and 31st January 2025, brought together leading researchers, academicians, industry experts, and healthcare professionals to explore cutting-edge advancements at the intersection of sports science, healthcare, and engineering. The event featured keynote speeches, panel discussions, and technical sessions covering topics such as wearable technologies, biomechanics, sports injury management, and data-driven approaches to athlete health. The symposium featured several technology demonstrations, including ultrasound-based human-machine interfaces, a robotic platform for testing footwear traction, and a home rehabilitation robot developed by research groups at the Centre for Biomedical Engineering, IIT Delhi.



Transformative Leadership in STEMM (TLS) Workshop for Ph.D. Scholars from SC/ST Community

IIT Delhi has initiated an annual national-level mentoring workshop, "Transformative Leadership in STEMM (TLS) Workshop," for advanced-stage Ph.D. scholars from the SC/ST community with an aim to encourage and empower them to apply for faculty positions at prestigious institutions like IITs, NITs, and other higher educational institutions (HEIs). The goal of this unique step is to address the underrepresentation of the SC/ST community in the scientific domain, particularly in the faculty positions. The second TLS Workshop, held from January 28 to 30, focused on the fields of Electrical Engineering, Computer Science and Engineering, Mathematics, and Biological Sciences and also included select participants from the previous batch of the workshop.



IHFC Collaborates to Launch Transformative Co-Innovation Centres (CiC)

The Technology Innovation Hub (TIH) of IIT Delhi, IHFC, is embarking on a transformative journey by collaborating with ten prestigious institutes in India to establish Co-Innovation Centres (CiC). On January 24, 2025, IHFC's first CiC with PES University, Bangalore, was inaugurated. The vision driving this initiative is to foster innovation and technological growth among India's young minds. These centers are being set up to groom and hone the skills of aspiring entrepreneurs and innovators.



150 High School Students Attend Inaugural Sci-Tech Spins Lecture Series 2025

The much-awaited lecture series "Sci-Tech Spins" marked its beginning for the year 2025 with the first lecture titled "Earth's Oceans: The Physics Behind Their Might" by Prof. Ritabrata Thakur, Department of Applied Mechanics, IIT Delhi. Of the total attendees, two-thirds were girls. The talk aimed to provide the students a preliminary exposure to the research areas of fluid dynamics and oceanography. This initiative is a part of IIT Delhi's mandate to bridge the gap between academia and society and promote curiosity and innovation.



Agreement Signed for Building Blocks for THz Communication Front Ends for 6G

The Centre for Development of Telematics (C-DOT), the premier telecom R&D centre of the Department of Telecommunications (DoT), and IIT Delhi signed an agreement in January for "Building Blocks for THz Communication Front Ends" for 6G. The agreement is signed under the Telecom Technology Development Fund (TTDF) 6G Call for Proposal of the Department of Telecommunications.



Cultural Event 'NISHAAN 2025' Celebrates Diversity and Talent of Students with Disabilities

This year, NISHAAN, which was organized on January 12, welcomed the participation of students with disabilities from colleges across Delhi, further reinforcing its commitment to diversity and inclusion. The event offered an inclusive platform for students with disabilities to exhibit their abilities through various cultural activities, including music, dance, drama, painting, photography, as well as poetry and essay performances. The dance and music segments featured captivating performances by participants from all colleges, who delivered both dynamic and graceful displays.



IIT Delhi-Abu Dhabi to Offer a New B. Tech. Program in Chemical Engineering

Since its inception in January 2024, IIT Delhi – Abu Dhabi has launched an M. Tech. program in Energy Transition and Sustainability, two B.Tech. programs in Computer Science and Engineering, and Energy Engineering, and a Ph. D. program in Energy and Sustainability. For the upcoming academic year commencing in August 2025, IIT Delhi - Abu Dhabi will offer an additional B.Tech. program in Chemical Engineering. These four-year programs meet the evolving needs of the global technology landscape and mold students with skills and knowledge to excel as future leaders in their chosen fields.



3rd Batch of STEM Mentorship Program for High School Girls Successfully Concludes

During the period between the in-campus Summer and Winter phases, the 3rd Batch students had the opportunity to attend the Sci-Tech Spins lecture series, held monthly. They also participated in a special lecture by Ms. Aisha Bowe, Founder and CEO of STEMBoard and former aerospace engineer at NASA, which piqued their interest in space science and technology and inspired them to aspire to greater heights. The Winter phase was a five-day program involving lectures by IIT Delhi alumni and faculty on a variety of topics, including women's leadership roles in STEM, the role of AI in neuroscience, and algorithm design. A DIY workshop was also organized for the students to gain hands-on experience in creation with innovation.



IIT Delhi Hosts UN Under-Secretary-General for Digital and Emerging Technologies

Mr. Amandeep Singh Gill, UN Under-Secretary-General for Digital and Emerging Technologies and Secretary-General's Envoy on Technology, visited IIT Delhi on January 8, 2025, and delivered a talk on 'UN@80: New Direction for Technology Governance'. Mr. Amandeep Singh Gill spoke about technology and artificial intelligence (AI) governance. The event highlighted the importance of having frameworks that include all stakeholders and for countries to work together so that technology and AI can benefit society at large.



USA's National Security Advisor Jake Sullivan Delivers Talk

Mr. Jake Sullivan delivered an insightful talk on 'The United States and India: Building a Shared Future' on January 6. His address focused on the progress of the India-U.S. strategic partnership and explored future strategic alliances aimed at further strengthening bilateral relations between the two nations. On this occasion, Prof. Rangan Banerjee, Director, IIT Delhi, highlighted the ongoing linkages between the American institutions and IIT Delhi, with a number of bilateral collaborations. Out of IITD's 4000+ publications in the last year, more than 25% were with international collaborators, with the highest chunk of 8% with the US.



Indigenous Knowledge in India: A Seminar on Rich Heritage of Civil Engineering

The Department of Civil Engineering (CED) at IIT Delhi, in collaboration with the Delhi Chapter of the Indian National Academy of Engineering (INAE) and the Indian Knowledge Systems (IKS) Program, sponsored by the Ram and Mithlesh Gupta Foundation, organized a distinguished technical seminar titled "Indigenous Knowledge in India on Civil Engineering" on January 1. Professor Dr. T.G. Sitharam, the Chairperson of the All India Council for Technical Education (AICTE) and former Director of IIT Guwahati, delivered the seminar.



Placement Season 2024-25 Phase-1: IIT Delhi Students Receive 1200+ Job Offers

Placement season for the academic year 2024-25 is currently ongoing. In the first phase, IIT Delhi students secured over 1200 job offers, including pre-placement offers (PPOs), with about 1150 individual students being uniquely selected. The students received 50+ international offers from 15+ prestigious organizations across multiple global regions, including Japan, the Netherlands, South Korea, Taiwan, the UAE, the United Kingdom, and the United States. An exit survey commissioned by the Institute among the students who graduated in August 2024 had showed that they were keen on exploring multiple and diverse career opportunities, such as startups, entrepreneurship, higher studies, post-doctoral research, civil services, and many more. The survey also showed that not all students are availing themselves of on-campus placement services.



DRDO Industry Academia-Center of Excellence (DIA-CoE) at IIT Delhi Transfers Technology

The DRDO Industry Academia-Center of Excellence (DIA-CoE) is addressing some of the niche technologies for the 'soldier-in-the-field'. DIA-CoE transferred the technology for ABHED (Advanced Ballistics for High Energy Defeat), one of the world's lightest bulletproof jackets, to three Indian companies on December 19, 2024. These companies are M/S MIDHANI (Mishra Dhatu Nigam), Rohtak; M/S SMPP Pvt Ltd, Delhi; and M/S AR Polymers (MKU), Kanpur. ABHED (Advanced Ballistics for High Energy Defeat) meets all the necessary threat criteria as per the BIS V & VI capability of stopping multiple shots.



The Hon'ble Raksha Mantri, Shri Rajnath Singh, witnessed various technologies developed by DIA-CoE at an exhibition organised during the Annual Convention of INAE.

DIA-CoE signed Memorandum of Agreements for:

- Development of Indigenous Polymeric Ballistic Material with M/S Reliance Industries Ltd, Vadodara.
- Limited series production of Extreme Cold Weather Clothing (-60°C Wind chill).
- Limited series production of Extreme Heat Protective Clothing.



57th Inter IIT Sports Meet: IIT Delhi Students Win General Championship in Men's Category

IIT Delhi contingent created history by securing the General Championship in the Men's category and achieving an impressive 3rd place in the Overall General Championship.

Our teams excelled across multiple disciplines, delivering outstanding performances:

- Gold: Hockey, Swimming (Men), Water Polo, and Squash (Men).
- Silver: Squash (Women).
- Bronze: Cricket, Tennis (Men), Table Tennis (Women), and Badminton (Women).



Indo-US Workshop on 6G Technologies

The Department of Electrical Engineering and the Foundation for Innovation and Technology Transfer (FITT) organized a two-day international workshop titled "Indo-US Workshop on 6G Technologies" on December 9-10. The main objective of the workshop was to (i) assess the current status of 6G development in India, (ii) discuss India's 6G goals in terms of use cases to be addressed, technologies to be developed, IPR and prototype/testbed creation, manufacturing of equipment/devices/prototypes, and development of skilled manpower, and (iii) recommend strategies for achieving these goals and how Indo-US collaboration could help.



PDS Supply Chain Optimization Tool 'Anna Chakra' Developed by PSL, IIT Delhi, Launched

Shri Pralhad Joshi, Union Minister of Consumer Affairs, Food and Public Distribution & New and Renewable Energy launched the 'Anna Chakra' PDS Supply Chain Optimization Tool and Inter-State Route Optimization Tool developed by the Public Systems Lab at IIT Delhi in collaboration with the World Food Programme in December. The tools represent a major advancement in India's efforts to enhance food security through technology-driven solutions.



Public Systems Lab

IIT Delhi, Heartfulness Education Trust Sign MoU

Through this MoU with the Heartfulness Education Trust (HET), IIT Delhi aims to impart the Heartfulness approach to various wellness programs and foster the mental, emotional, and personal growth of its students. It also aims to enhance values-based education and inner development, helping students improve academic performance and develop leadership qualities. This collaboration reflects IIT Delhi's commitment to nurturing student well-being alongside academic excellence.



Janjatiya Gaurav Diwas - Bhagwan Birsa Munda Cell Hosts Commemorative Events

This milestone celebration on November 14th featured a high-profile panel discussion on the theme "Tribal Philosophy of Sustainable Development." The distinguished panel included Mr. Harsh Chauhan, former Chairperson, National Commission for Scheduled Tribes (NCST), who highlighted the profound sustainability principles inherent in tribal traditions and their modern-day relevance. Mr. Lakshman Singh Markam, Additional Secretary, Office of Chief Minister, MP Govt., provided first-hand insights into how tribal practices can inspire inclusive development strategies. Prof. V.M. Charar, CRDT, IIT Delhi, discussed innovative methods for integrating tribal philosophies into mainstream sustainable development frameworks.



Constitution Day Celebrated at IIT Delhi

NSS IIT Delhi, in collaboration with the Institute of Constitutional & Parliamentary Studies (ICPS), organized a special event on November 26, 2024, to celebrate Constitution Day. On this occasion, Dr. Sasmit Patra, Hon'ble Rajya Sabha MP, and Shri. Manoj Tiwari, Hon'ble Lok Sabha MP, interacted with the students, staff, and faculty members. The focus of Dr Patra's talk was "Evolution of the Indian Constitution." Shri. Manoj Tiwari spoke about the role of the constitutional values in shaping the youth's future.



Study: Atomically Thin Graphene Shields Glasses from Simultaneous Mechanical and Chemical Damage Under Water

IIT Delhi researchers have demonstrated that about a nanometer-thick graphene—by virtue of its exceptional chemical shielding and mechanical strength—can remarkably improve the durability of glasses exposed to water. Repeated scratch tests carried out at the nanoscale revealed that just a few layers of graphene can transform fragile silica glass into a damage-resistant surface in water by preventing severe wear. Interestingly, zero wear was observed when scratched with both hard diamond and reactive silicon counter surfaces, despite the latter being aggressively corrosive to glasses. Molecular simulations reveal the secret behind graphene's effectiveness: it prevents the chemical 'sticking' of glass to reactive bodies sliding in the presence of water. This shielding ability of graphene protects the glass from combined physical and chemical damage. The research paper titled "Graphene Mitigates Nanoscale Tribochemical Wear of Silica Glass in Water" was published in Small (<https://doi.org/10.1002/sml.202410040>).



INDUSTRIAL RESEARCH AND DEVELOPMENT

Sponsored Projects & Consultancy Jobs Undertaken Through IRD Unit (October - December 2024)

Month	Externally Funded Research Projects		Externally Funded Miscellaneous Projects (Meetings/Conferences/ Workshops/ Events etc.)		Consultancy Jobs		Total No. of Sponsored Projects & Consultancies Created	Total Sanctioned Funds (Rs.Crores)
	No.	Sanctioned Funds (Rs. Crores)	No.	Sanctioned Funds (Rs. Crores)	No.	Sanctioned Funds (Rs. Crores)		
OCTOBER	19	28.99	13	1.95	26	2.73	58	33.67
NOVEMBER	20	18.33	05	1.68	19	0.70	44	20.71
DECEMBER	16	62.36	06	1.35	14	1.08	36	64.79
TOTAL	55	109.68	24	4.98	59	4.51	138	119.17

High-Value Sponsored Projects (Sanctioned Value Rs. 1.00 Crore and Above)

S.No.	Title	Sponsoring Agency	PI/Department	Sanctioned Funds (Rs.Crores)
1.	Design and Demonstration of a Highly Scalable Quantum Computer Using Semiconducting Qubits	Department of Science and Technology, India	Prof. Abhisek Dixit Electrical Engineering	40.48
2.	Dynamic Spectrum Sharing Technology And In-Band Coexistence for Strategic Communications (DISC)	Defence Research & Development Organisation, India	Prof. Swades Kumar De Electrical Engineering	9.39
3.	Novel Optical Fiber Technology for Quantum Enabled 6G Communication	Telecom Centre of Excellence India	Prof. Deepak Jain Optics and Photonics Centre	7.72
4.	Project Patang - Tethered Drone-based Last Mile 6G Connectivity and Backhaul Carpet in Advancing Battlefield	Telecom Centre of Excellence India	Prof. Vireshwar Kumar Computer Science & Engineering	6.5
5.	COIL-D: Centre for Indian Language Data	Ministry of Electronics and Information Technology, India	Prof. Tanmoy Chakraborty Electrical Engineering	4.57
6.	Development of 2 pm nd 4 pm Laser Source for Countermeasure Applications	Ministry of Defence, India	Prof. Ritwick Das Optics and Photonics Centre	3.41
7.	Development of Flexible and Stable Cross-Linked Polyimide Aerogel for High Temperature Protective Textiles	Defence Research & Development Organisation, India	Prof. Md. S. Wazed Ali Textile & Fibre Engineering	2.93
8.	Centre for Advanced Research in Pulmonary Hypertension - IITD part: Pulmonary Artery Denervation for Treatment of Idiopathic Pulmonary Hypertension	Indian Council of Medical Research, India	Prof. Naresh Bhatnagar Mechanical Engineering	2.74

9.	Integrated Magneto-Acousto-Di-electrophoresis-based Micro-fluidics for Sorting of Bovine Spermatozoa	Department of Biotechnology, India	Prof. Sandeep Kumar Jha Biomedical Engineering	2.63
10.	Development of Indigenous Facs Device for Enrichment of X-Chromosome Bearing Spermatozoa in Bovine Semen	Department of Biotechnology, India	Prof. Dalip Singh Mehta Physics	2.59
11.	Bhagwan Birsa Munda Cell (BBMC)	Ministry of Tribal Affairs, India	Prof. Vivek Kumar CRDT	2.00
12.	CO2 Capture and Conversion to Jet Fuel via Alcohol to Jet Process	Department of Science & Technology, India	Prof. Sreedevi Upadhyayula Chemical Engineering	1.76
13.	CO2 Capture and Conversion to Jet Fuel via Alcohol to Jet Process	Department of Science & Technology, India	Prof. Tanmoy Chakraborty Electrical Engineering	1.59
14.	CoE on Personalized Healthcare at IIT Delhi: India's first Center for Precision Medicine & MedTech	Wadhvani Innovation Network, Wadhvani Foundation	Prof. Neetu Singh Biomedical Engineering	1.3
15.	DST Inspire Faculty Fellowship Award Project Solar Induced Water Splitting: From Photo-Electrode to Green Hydrogen	Department of Science & Technology, India	Awarded to Dr. Dipika Sharma under supervision of Prof. Pravin Popinand Ingole, Chemistry	1.12
16.	Extreme Heat Protective Clothing (EHPC) Upgradation Through Value Additions with Identified Industry Partners and Limited Numbers Production for Testing and Validation	Defence Research & Development Organisation, India	Prof. Apurba Das Textile & Fibre Engineering	1.06
17.	Energy-Efficient Quantum Materials-based Magnetic Tunnel Junctions for Unconventional Computing Applications	Ministry of Electronics and Information Technology, India	Prof. Pranaba Kishor Muduli Physics	1.03
18.	Fabrication and Evaluation of Gamma Radiation Protective Clothing	National Technical Textiles Mission, Ministry of Textiles, India	Prof. Bhupendra Singh Butola Textile & Fibre Engineering	1.00
19.	Development of Leather-like Bio-composite for Use in Automobiles (Mobiltech)	National Technical Textiles Mission, Ministry of Textiles, India	Prof. Deepti Gupta Textile & Fibre Engineering	1.00

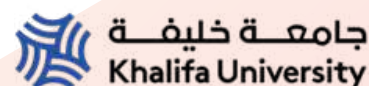
High-Value Consultancy Jobs (Sanctioned Value Rs. 25 Lakhs and Above)

S.No.	Title	Sponsoring Agency	PI/Department	Sanctioned Funds (Rs.Crores)
1.	Technical Advice and Checking of the Detailed Design for Kolkata Metro (All Work Orders) - Additional Works and Construction Support Activities (Phase 2)	Rail Vikas Nigam Limited, Kolkata, India	Prof. Bappaditya Manna Civil Engineering	0.77
2.	Technical Assessment of Collapse of Canopy Roof at Terminal 1 of Delhi Airport	Airport Authority of India, New Delhi	Prof. Kumar Neeraj Jha Civil Engineering	0.5
3.	Proof Checking of Structural Design and Drawings of Proposed DDA Integrated Multi sports Arena at Sector 19B, Dwarka, New Delhi	Worldstreet Sports Center Limited, New Delhi, India	Prof. S. Pradyumna Applied Mechanics	0.45

Multi-Institutional Faculty Interdisciplinary Research Projects (MFIRP): Joint Research Call

Khalifa University and IIT Delhi

Khalifa University and IIT Delhi including its international campus in Abu Dhabi (IITD-AD) contributed matching grants to support five joint projects in the targeted research areas, namely, advanced materials and devices, manufacturing & industry 4.0, quantum technologies, water and climate sustainability, carbon capture, utilization, and storage. The call was announced on December 24, 2024.



Mohamed bin Zayed University of AI and IIT Delhi

The Mohamed bin Zayed University of Artificial Intelligence (MBZUAI) and IIT Delhi including its international campus in Abu Dhabi (IITD-AD) announced call for proposals on December 13, 2024, to support five joint projects in the multidisciplinary research areas targeted towards application of Artificial Intelligence in research areas including, but not limited to healthcare, smart cities & infrastructure, smart manufacturing & materials, climate change, agriculture & water, energy & sustainability.

University of Exeter and IIT Delhi

University of Exeter, UK and IIT Delhi contributed matching funds to support six joint projects in the broad thematic areas of modelling tools for the Ionosphere, prediction of turbine performance using AI/ML, wearable device for sports concussion monitoring, wearable multimodal sensing system for sports injury prevention, aerial vehicles for high-rise building fires, and wave-based fault detection and location for AC side faults in phase shifted full bridge are few of the thematic areas of interest to both.



Project Review by AIIMS and IIT Delhi

All India Institute of Medical Sciences, New Delhi (AIIMS-D) and IIT Delhi conducted a review of the 18 joint projects on 25th and 26th November 2024. Twenty-one papers have been published, 18 project proposals submitted to external funding agencies and 03 project proposals have received funding, 3D adaptive Region-Growing based Lung Nodule Segmentation (RGLNS) Software developed, 3-patents filed, a highly promising low-cost lightweight polycentric polymeric knee joint (PPKJ) produced, and many medical devices such as smartphone-based PT testing system, VR headset to get the 3D image, wearable electronics for swallow-graphy in stroke patients, an automated digital Visual Acuity test, a novel highly sensitive Surface Enhanced Raman Scattering (SERS) based system for the detection of MDR-TB and XDR-TB, etc. are in different stages of development.



NYCU Delegation Visits IIT Delhi

The NYCU delegation visited IIT Delhi on 4th November 2024 to further augment the research and academic cooperation, including the NYCU-IITD Joint Doctoral Degree Program (JDP). The major highlights of this meeting included the exchange of faculty and researchers, industry-academia partnerships, joint research areas, and organizing workshops and conferences. The research scholars who completed their JDP program highlighted the achievements and milestones achieved under the JDP program. The NYCU delegation expert team evaluated the research scholars' posters for awards. Based on the criteria of novelty, presentation skill, and technology development, IRD awarded the sum of Rs. 5000 to eight research scholars.



Memorandum of Understanding (MoU)

University College of London (UCL) and IIT Delhi

The University College of London (UCL), UK and the IIT Delhi renewed the existing Memorandum of Understanding pertaining to collaboration in research and teaching in areas of common interest for another five years on November 21, 2024.



UCL, AIIMS New Delhi and IIT Delhi

On November 22, a delegation from University College London (UCL) and All India Institute of Medical Sciences, New Delhi, visited IIT Delhi and signed a trilateral Memorandum of Understanding committing to partnership for devising multidisciplinary technology and innovation-focused solutions across healthcare. The partnership will seek to leverage industry connections across all three institutions with an aim to advance the field of medical technology in cutting-edge areas such as detection, diagnostics and imaging; devices and implants; assistive technologies; digital health; artificial intelligence, machine learning and quantum; surgical and treatment interventions and sensing technologies.



NIFTEM and IIT Delhi

National Institute of Food Technology Entrepreneurship and Management (NIFTEM) signed a Memorandum of Understanding (MoU) with the Indian Institute of Technology Delhi on December 11, 2024. The scope of this MoU includes the exchange of faculty, researchers, technologists, and students to enhance academic and professional development.



Launch of IRD Online Stores & Purchase Module

IRD launched its in-house-built new version of IRIS, called N-IRIS, on June 03, 2024, with a vision to bring all IRD activities of IIT Delhi online at one platform. Moving one step further, an advanced online "Stores & Purchase" Module has been added to the N-IRIS to provide complete automation of procurement under the IRD projects and consultancies. Fully operational since 17th September 2024, this module now eases the tasks related to the PFC formation, indent, purchase requisition, supply order, import order, online audit, payment tracking, etc.



ALUMNI RELATIONS

Reunions at IIT Delhi

Diamond Jubilee Reunion - Class of 1968 & 1969



The Diamond Jubilee Reunion of the Class of 1968 and 1969, a milestone event held on November 14, 2024, brought alumni back to campus, rekindling cherished memories and celebrating six decades of their association with the Institute. It was a heartwarming occasion filled with nostalgia, camaraderie, and reflections on their remarkable journeys since graduation.

35th Reunion of the 1989-1990 Batches



The 1989 and 1990 batches marked their own significant milestones, with alumni coming together to reminisce, share personal and professional achievements, and deepen their bond with the Institute and each other. These reunions were a testament to the enduring connections within the IIT Delhi alumni community, celebrating both individual and collective growth.

25th Reunion of the 1999 Batch



Similarly, the 25th Reunion of the 1999 Batch was a remarkable event that took place in December 2024, bringing together alumni to reconnect and reflect on their journeys. This reunion was an opportunity to celebrate both personal and professional milestones achieved by the class over the past 25 years.

Crystal Reunion - Class of 2014-15



IIT Delhi hosted the Crystal Reunion for the 2010 (entry) batch, marking 10 years of their journey since graduation. The event was a delightful blend of nostalgia and reconnection as alumni revisited the campus, shared memories, and celebrated their enduring bond with the Institute and each other.

35th Reunion of the 1987 Batch



On December 21, the IIT Delhi Alumni Relations and Endowment Office proudly hosted the 35th Reunion for the Class of 1987, marking a significant milestone for the batch. This reunion was a long-awaited occasion that brought together alumni who have shaped the future across diverse fields.

Ruby Reunion of the Class of 1982



The 40th Ruby Reunion of the Class of 1982 was a heartwarming event held in December 2024. Alumni from across the globe gathered at IIT Delhi to reconnect with friends, relive cherished memories, and celebrate four decades of personal and professional accomplishments.

An Engaging Week with IIT Delhi Alumni Across Europe

The Directors, Deans, and Incubator Heads of 13 IITs gathered at the Pan IIT Europe Alumni Global Conference 2024 in Amsterdam. One of the highlights was the sponsored panel, "Innovation & Academia Initiatives by the IITs," featuring esteemed speakers from IITs across the states.

In collaboration with the Embassy of India in The Hague, exclusive visits to the University of Groningen and Eindhoven University of Technology paved the way for potential research and collaboration.



On October 3, 2024, a special IIT Delhi Alumni Meet was held in Paris in collaboration with Sorbonne Université. This event celebrated the Integrated Health Programme partnership established in 2023.

On October 6, IIT Delhi hosted a vibrant Alumni Meet in Central Amsterdam led by Prof. P.V.M. Rao, Dean, Alumni Relations, IIT Delhi. The event saw a fantastic participation as alumni from across decades came together to share experiences, reminisce, and reconnect.

Celebrating Leadership and Innovation at IIT Delhi-Abu Dhabi

The vibrant IIT Delhi - Abu Dhabi campus hosted the Alumni Leadership Success Event, a gathering that brought together visionary leaders and changemakers from the IIT Delhi alumni community. This remarkable event celebrated the incredible achievements of our alumni while fostering collaboration and strengthening ties across industries.



The day was marked by engaging startup pitches, sparking ideas for cross-sector partnerships, and strategic board meetings focused on enhancing the alumni network.



Founder's Club Launched



The Founder's Club was launched during an event organized by the IIT Delhi Alumni Association (IITDAA) on November 30. The event featured fireside chats by three prominent alumni: Alok Mittal (Co-Founder, Indifi Technologies Pvt. Ltd. and President, TIE Delhi-NCR), Rohit Bansal (Co-Founder, Titan Capital & Snapdeal), and Prashant Tandon (Co-Founder, 1mg), encompassing their entrepreneurial insights and journeys. A few budding startups also made their pitches on this occasion.

IIT Delhi and Yuva Unstoppable Join Hands

On October 18, 2024, IIT Delhi and Yuva Unstoppable signed an MoU to establish an annual scholarship program for meritorious, underprivileged students. This initiative, supported by Yuva Unstoppable's generous donation, aims to empower 100+ first-year students enrolling in 2024-25 across IIT Delhi's B.Tech, B.Des, and Dual Degree programs.

IIT Delhi Alumnus Wins Bronze at ICF Dragon Boat World Championship



An IIT Delhi alumnus, Pradeep (M. Tech, 2023, Civil Engineering), was part of Team India, which won the Bronze Medal in the 2000-meter 20-seater Dragon Boat Men's Team event at the 2024 ICF Dragon Boat World Championship held in the Philippines.

CORPORATE RELATIONS

IIT Delhi Leads Landmark Collaboration with Hyundai Motor Group

IIT Delhi in collaboration with Hyundai Motor Group has entered into a strategic MoU to advance innovation in Electric Vehicle (EV) and Battery Technology. This partnership aims to drive transformative research and development that will shape the future of sustainable mobility in India. Under the MoU, the Hyundai Center of Excellence (CoE) will be established at IIT Delhi. This is a joint collaboration with two other IITs, namely, IIT Bombay and IIT Madras. The primary objective of the MoU is to formalize the parties' intent to explore and initiate collaborative research activities in EV and battery technology. IIT Delhi, as the lead institution, will coordinate efforts to harness academic and industrial expertise to address the unique challenges of the Indian automotive ecosystem.



Nav Urja Capsule Program for Senior Indian Oil Executives

The Nav Urja Capsule Program, a collaboration between IIT Delhi and Indian Oil, marks a significant advancement in renewable energy talent development. Launched by Prof. Rangan Banerjee, Director of IIT Delhi, the program is designed to equip Indian Oil executives with cutting-edge insights and hands-on skills in renewable energy. Developed by IIT Delhi's Department of Energy Science and Engineering, it aims to enhance expertise and foster innovation within the organization. This initiative not only strengthens Indian Oil's capabilities but also lays the foundation for future collaborations to tackle the evolving challenges of the renewable energy sector, contributing to a greener and more sustainable future.

Delegation from Israel Aerospace Industries (IAI) Visits IIT Delhi

A delegation from Israel Aerospace Industries (IAI), a global leader in defense and commercial aerospace, visited IIT Delhi to explore potential collaborations on three innovative projects. The discussions covered areas such as counter-adversarial autonomous systems, responsible AI frameworks and advancements in quantum computing, particularly focusing on scalable quantum systems and semiconducting spin qubits. These projects reflect cutting-edge research in their respective fields, with an emphasis on enhancing technology for future applications in aerospace, AI and quantum computing.

R Systems Strengthens Commitment to Innovation and Sustainability

R Systems has once again demonstrated its unwavering support for societal development and technological innovation by funding the ongoing R Systems Center of Excellence on Applied AI for Sustainable Systems at IIT Delhi for the second consecutive year. This generous contribution, made as part of their Corporate Social Responsibility (CSR) initiative, underscores their continued dedication to fostering impactful research.

Japanese Regional Banks' Delegation Visits IIT Delhi

IIT Delhi's Corporate Relations team recently hosted a delegation from Japanese regional banks, led by Mr. Tsutomu Takei, Chairman of the Mission and Senior Managing Director of the Gunma Bank Ltd. Mr. Noriyuki Tanabe, Managing Director of the Regional Banks Association of Japan, delivered an insightful presentation highlighting the evolving landscape and pressing challenges for regional banks in Japan. From the IIT Delhi side, Prof. Preeti Ranjan Panda highlighted various avenues for industry-academia engagement, while Prof. Vigneswara from the Department of Management Studies provided insights into the FinTech ecosystem in India. As part of their visit, the delegation toured IIT Delhi's Research and Innovation Park, exploring the cutting-edge research and entrepreneurial initiatives taking place on campus.



INTERNATIONAL CONNECT

Foreign Dignitaries @ IIT Delhi



Ms. Laura Chaubard, President Ecole Polytechnique, France visited on 11th October 2024



Mr. Rafael Félez, Director of the Technological Institute of the Americas (ITLA), Dominican Republic of India - 22nd October 2024



3-member delegation from Greater Columbus Sister Cities International (GCSCI), USA - 13th November 2024



Mr. Kees Kwant, Mission Director of Integrated Biorefineries, Netherlands - 14th October 2024



Prof. Apala Majumdar FRSE FIMA University of Strathclyde Glasgow, UK - 22nd October 2024



3-member delegation from AI Hub Seoul, South Korea - 13th November 2024



Prof. Nobuhiko KUZE from Sophia University, Japan - 18th October 2024



6-member delegation from Maynooth University, Ireland - 22nd October 2024



12-member delegation from Vietnam led by HE Mr Nguyen Xuan Thang, Member of Politburo, President of the Ho Chi Minh National Academy of Politics (HCMA), and Chairman of the Central Theory Council - 13th November 2024



Prof. Nhlapo, Vice-Chancellor, Cape Peninsula University of Technology (CPUT) and Chairperson of the THENSA Board, South Africa - 21st October 2024



4-member delegation from Technical University of Munich (TUM), Germany - 24th October 2024



3-member delegation from TU Alliance, Austria, - 21st October 2024



Prof. Alison Noble, Foreign Secretary from the Royal Society, United Kingdom - 8th November 2024



12-member delegation led by Dr Anna Tyshetskaya, Vice-Chancellor & Director of HSE University, Saint-Petersburg, - 18th November 2024



Delegation led by Dean Alex Triantis from Johns Hopkins Carey Business School - 18th November, 2024



4-member delegation from Johns Hopkins University - 20th November 2024



Group of 26-member delegation from Kanazawa University FUKUI, Japan - 21st November 2024



Prof. Mundia Muya, Vice Chancellor, University of Zambia - 25th November 2024



3-member delegation from University of Huddersfield, England - 25th November 2024



4-member delegation from Sorbonne University, France - 06th December 2024



6-member delegation from Seoul AI Hub, South Korea - 06th December 2024

IIT Delhi Signed MoUs with:

École Polytechnique, France

National Institute for Materials Science (NIMS), Japan

Seoul AI Hub, South Korea

University College London, UK

Royal Holloway, University of London (RHUL), UK

AWARDS & ACHIEVEMENTS

IIT Delhi Faculty Research Awards 2024



Prof. Gaddam Vijaya Prakash, Physics

Prof. K.L. Chopra Faculty Research Award in Basic Research



Prof. Dipti Ranjan Sahoo, Civil Engineering

Prof. P.C.P. Bhatt Faculty Research Award in Applied Research



Prof. Arnab Banerjee, Civil Engineering

Early Career- Mrs. Veena Arora Faculty Research Award



Prof. Souvik Chakraborty, Applied Mechanics

Early Career- Mrs. Veena Arora Faculty Research Award



Prof. Dibyajyoti Ghosh, Materials Science and Engineering

Early Career- Mrs. Veena Arora Faculty Research Award



Prof. Naresh Bhatnagar, Mechanical Engineering, IIT Delhi
Distinguished Alumni Award 2024 by NIT Trichy



Prof. Ashok K Ganguli, Chemistry
Indian Chemical Society Lifetime Achievement Award 2024



Prof. N. M. Anoop Krishnan, Civil Engineering, IIT Delhi
Sir Alastair Pilkington Award 2024 by the Society of Glass Technology, UK



Prof. Gunturi Venkata Ramana, Civil Engineering, IIT Delhi
IGS Delhi Chapter Lifetime Achievement Award by the Indian
Geotechnical Society (IGS) Delhi Chapter



Prof. Nitya Nand Gosvami, Materials Science & Engineering, IIT Delhi
Received Fulbright-Nehru Academic and Professional Excellence
Fellowship



Prof. Manabendra Saharia, Civil Engineering, IIT Delhi
Indian National Geospatial Award 2024 by the Indian Society of Remote Sensing



Prof. A.K Keshari, Civil Engineering, IIT Delhi
Jury Water Award from India Water Foundation during Water Transversality Global Awards and Conclave 2024



Prof. Sushma Santapuri, Applied Mechanics, IIT Delhi
Inducted in editorial board of International Journal for Computational Methods in Engineering Science and Mechanics (CMES)



Prof. B. Premachandran, Mechanical Engineering, IIT Delhi
Inducted in editorial board of International Journal of Thermal Sciences from June 2024 as an Associate Editor



Prof. Rajendra Singh Dhaka, Physics, IIT Delhi
Joined editorial team of Scientific Reports, a journal published by Nature



Prof. Sovik Das, Civil Engineering, IIT Delhi
Joined Editorial Advisory Board of Journal of Applied Electrochemistry by Springer



Prof. Satyananda Kar, Energy Science and Engineering, IIT Delhi
Joined as an editorial board member of the journal Scientific Reports by Nature



Prof. Sudipan Saha, School of Artificial Intelligence, IIT Delhi
Appointed as Associate Editor of IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)



Prof. Divya Nayar, Materials Science and Engineering, IIT Delhi
Joined as Editorial Board Member of the journal Scientific Data published by Springer Nature



Prof. Deepak Jain, Centre for Optics and Photonics, IIT Delhi
Received accolades from the defense minister for developing bend compensated optical fibers for high power lasers

CONTINUING EDUCATION PROGRAMME

The Continuing Education Programme (CEP), IIT Delhi, a statutory body for conducting Certificate Programmes, administered the below activities in the quarter ending December 2024.

i) 22 Programmes (14 Online CEP Under eVIDYA@IITD Initiative; 08 Programmes Under BG-192) Notified

ii) 12 Programmes with 714 Enrolled Participants Are Under Academic Delivery

S. No.	Programme Title (Department/ Centre/ School)	Sponsored/ Open Participation
1.	Advanced Programme in Electric Vehicle (EV) Technology (Batch -VI) (Chemical Engineering)	Open Participation (Online)
2.	Advanced Certification Programme in Persuasive UX Strategy (Batch II) (Design)	Open Participation (Online)
3.	Advanced Certification in Data Science and Decision Science (Batch III) (Management Studies)	Open Participation (Online)
4.	Artificial Intelligence and Machine Learning for Industry (Batch-IV) (ScAI)	Open Participation (Online)
5.	Certification in Quantum Computing and Machine Learning (Batch V) (BSTTM)	Open Participation (Online)
6.	Certification Programme in Design Thinking and User Experience (Batch III) (Design)	Open Participation (Online)
7.	Chief Financial Officer Programme (Management Studies)	Open Participation (Online)
8.	Chief Technology Officer Programme (Management Studies)	Open Participation (Online)
9.	Executive Programme in Virtual and Augmented Reality (Design)	Open Participation (Online)
10.	Executive Programme for Tech Product Management (Batch II) (Management Studies)	Open Participation (Online)
11.	Executive Programme in Advanced Project Management (Batch III) (Management Studies)	Open Participation (Online)
12.	University of Exeter-IIT Delhi Workshop Series (International Office)	Open Participation (On-Campus)

iii) 13 Programmes Benefiting 831 Participants Concluded

S. No.	Programme Title (Department/ Centre/ School)	Sponsored/ Open Participation
1.	A Three-Day Training Programme on Technological Upgradation in Process and Wastewater Treatment Technology for Pollution Reduction in Pulp and Paper Mill (CRDT)	Sponsored
2.	Advanced Programme in Electric Vehicle (EV) Technology (Batch VI) (Chemical Engineering)	Open Participation (Online)
3.	AI Training Programme for National Informatics Centre (Phase III) (BSTTM)	Sponsored
4.	AI Training programme for National Information Centre (Phase II) (BSTTM)	Sponsored
5.	Battery and Battery Management Systems (B2MS) (Chemical Engineering)	Sponsored
6.	Composite Materials for Tata Motors (Applied Mechanics)	Sponsored
7.	Emerging Trends in Management (Batch-I & II) (Management Studies)	Sponsored
8.	Joint Diploma Program in Visionary Leaders for Manufacturing (VLFM)_B-7 (Mechanical)	Open Participation (On Campus)
9.	NAV-URJA NIRMAN: Building A Future in Renewable Energy for IOCL Employees (Phase II) (Energy Science and Engineering)	Sponsored
10.	Nurturing Future Leadership Programme (Management Studies)	Sponsored
11.	Training Programme on Battery Technology for Electric Mobility (CART)	Sponsored
12.	Workshop on ESG in Banking (Management Studies)	Sponsored
13.	Workshop on PCB Fabrication and Assemble (Biomedical Engineering)	Open Participation (On Campus)

#IITDelhi on Social Media



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