FITT FORWARD

Quarterly Newsletter

January – March 2025

R&D Projects & Partnerships

Collaborative R&D | Technology Development | Expert Consultancy

Skill Development Programs | Workshops & Conferences

Industry | Government | Academia | Multilateral Organizations | CSR Funding

Intellectual Property & Technology Transfers

IP Analytics & Due Diligence | IP Filings & Management | IP Audits

Technology Scouting | Match-making | Technology Transfers & Licensing

IP Awareness | Techno-legal Support

Incubation & Entrepreneurship

Infrastructure | Lab/Office Space | Specialized Equipment | Access to IITD Labs

Technical Mentoring | Business Mentoring

Business & Market Connects | Investor Connects | Networking | Funding Support

Research & Innovation Park

Managed Facility for creating a knowledge and innovation ecosystem

Spaces for corporates in manufacturing, R&D, D&D, Process Engineering

Auditorium | Meeting/ Conference Rooms | Training Rooms | Service Apartments

R&D Projects & Partnerships

FITT actively engages with corporations, industry bodies, and academic institutions to expand its outreach and enhance technology commercialization efforts. These partnerships facilitate collaborative research, technology transfer, and entrepreneurial support, driving regional economic development. These projects serve as catalysts for innovation and knowledge exchange between academia and industry.

From January to March 2025, FITT facilitated 38 R&D, technology development, and consultancy projects totaling INR 10.88 Cr.

Notable projects initiated during this period:

Project Title	PI	Department/Centre
Validation Study of the WAQF Assets Management System of India (WAMSI) Portal under Qaumi WAQF Board Taraqqiati Scheme (QWBTS)	Sanjay Dhir	Management Studies
Security and Performance Optimization in Dual-Function Radar and Communication Systems	Arpan Chattopadhyay	Electrical Engineering
Setting up of commonly used in characterization facilities for improved R&D infrastructure	Sagar Sarkar	Mechanical Engineering
Short-term skilling program in AI and Fintech with AI in Higher Education	Brejesh Lall	Bharti School of Information Technology
Biopolymer-based nanocomposite coating for high barrier applications (low water vapor and oxygen transmission) Phase 1	Gaurav Goel	Chemical Engineering
To study the total process from inception to actual operation of industrial/manufacturing projects in different States from the perspective of identifying causes, if any, that cause delays or add to avoidable cost, identify the root causes for these and suggest changes that would lead to increased competitiveness of manufacturing in the States	Minakshi Kumari	Mechanical Engineering
Reliable all-atom model of C-S-H and C4AF model for polymer adsorption studies	N. M. Anoop Krishnan	Civil Engineering

Category	Company Name
Global Corporates/ Multinationals	QUALCOMM Technologies, Inc., USA
	Citadel Securities India Markets Pvt. Ltd.
	Thermo Fisher Scientific India Pvt. Ltd.
	Klüber Lubrication München GmbH & Co. KG
	BASF, USA
	STMICROELECTRONICS, USA
	Mitsui Kinzoku Components India Pvt. Ltd.
Government & International Bodies	Ministry of Minority Affairs
	Department of Higher Education, MP
	Asian Development Bank
	Delhi International Airport Ltd.
Large Indian Corporations	Indian Oil Corporation
	Canara Bank
	J K Paper
	National Engineering Industries Limited
Other Enterprises	Attero Recycling Private Limited
	Q2A Media Services Pvt. Ltd.
	Amnex Infotechnologies Pvt. Ltd.
	Dentsply India Pvt. Ltd.

Major collaborations:

FITT Signs Contract with Ministry of Minority Affairs for Strategic Validation Study of WAMSI Portal

FITT has signed a contract with the Ministry of Minority Affairs, Government of India, for conducting a Validation Study of the Waqf Assets Management System of India (WAMSI) Portal. This initiative falls under the Qaumi Waqf Board Taraqqiati Scheme (QWBTS).

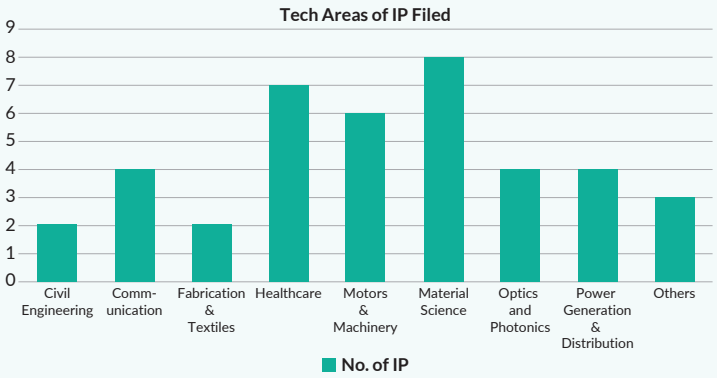
This strategic and scientific study aims to evaluate the current functioning of the WAMSI portal and develop a comprehensive roadmap for strengthening the operations of the Waqf Boards across the country. The objective is to enhance transparency, efficiency, and accountability in managing Waqf properties through digital systems.

The project is being led by Prof. Sanjay Dhir, Principal Investigator, from the Department of Management Studies (DMS), IIT Delhi, with Prof. Sonali Jain as the Co-Principal Investigator.

This collaboration reflects FITT's ongoing commitment to applying academic expertise to socially impactful initiatives, contributing to policy-level improvements and digital governance in India.

Intellectual Property & Technology Transfer

As the intellectual property asset management arm of IIT DELHI, FITT filed 40 IP applications from January to March 2025.



List of IP applications filed during Jan-Mar 2025:
see Table on page 14

FITT facilitates the commercialization of valuable intellectual property through technology transfer and licensing agreements. FITT has completed thirteen(13) technology licensing deals during this period.

The following two technologies were transferred to Wireless 4 Scale Laboratory Pvt. Ltd. These innovative technologies were developed by Prof. Swades De from the Department of Electrical Engineering at IIT Delhi.

Method and apparatus for wireless information and energy transfer using distributed beamforming: An apparatus for distributed beamforming (DBF) techniques enabling efficient wireless information and energy transfer in wireless networks.

System and method for providing energy management in a communication network: The system enables energy management in a dual-powered communication network.

Date of Licensing: 1st January 2025
Company: Wireless 4 Scale Laboratory Pvt Ltd

VoxDepth: Rectification of Depth Images on Edge Devices

VoxDepth is a fast and accurate depth estimation method that works on edge devices. It relies on a host of novel techniques: 3D point cloud construction and fusion, which are used to create a template that can fix erroneous depth images. A clean 2D depth template is generated to correct noise and fill gaps in incoming frames. This technology was developed by Prof. Samruti Sarangi from the Department of Computer Science and Engineering at IIT Delhi.

Date of Licensing: 9th January 2025
Company: White Tree Devices

MicrobeDecon (Anti-Microbial Solution/ Decontamination Solution for Fabrics)

A novel chemical composition has been developed to decontaminate various types of fabrics to decontaminate various types of fabrics. The decontamination spray is a fiber-compatible, non-toxic, and eco-friendly composition used to remove pathogens from textiles. This innovative technology was developed by Prof. B. S. Butola from the Department of Textile and Fibre Engineering at IIT Delhi.

Date of Licensing: 28th January 2025
Company: Anablade Pvt. Ltd

Ultra-fast Thermal Simulation of Electronics Systems

This innovative technology was developed by Prof. Samruti Sarangi from the Department of Computer Science and Engineering at IIT Delhi.

Date of Licensing: 6th February 2025
Company: IBM and Texas Instruments

Digital Mosso Ergograph

The digital ergograph device examines muscle fatigue and human physiology. It offers a faster and more efficient method for automatic graphing and calculations, enabling enhanced data collection on key parameters related to the study of muscular fatigue and human physiology. This innovative technology was developed by Prof. Deepak Joshi from the CBME, IIT Delhi, in collaboration with AIIMS.

Date of Licensing: 3rd March 2025
Company: Almedic Instruments India

Speech Enhancement in Received Audio of Communication Equipment using Signal Processing Techniques

A method, system, and apparatus have been developed for searching multilingual keywords in mixed-lingual speech corpora. It is capable of searching audio as well as text keywords. The technique can combine information from audio and text keywords to enhance the search performance. This system is based on multiple posteriorgrams based on the articulatory classes trained with multiple languages. This innovative technology was developed by Prof. Arun Kumar from the Centre for Applied Research in Electronics at IIT Delhi.

Date of Licensing: 3rd March 2025
Company: DELSIG Systems Pvt. Ltd.

Direct printing of vascular stent by solvent casting 3D printing technique

A method for preparing vascular stents by solvent casting (SC)-3D printing technique has been developed. A rotating mandrel is used to fabricate varied customized stent designs that can be fabricated without affecting the physical or biological properties. The SC-3DP preserves the physical/biological properties of the microsystem. The design of pore architecture can be controlled which allows better cell adhesion. This innovative technology was developed by Prof. Pulak Mohan Pandey from the Department of Mechanical Engineering at IIT Delhi.

Date of Licensing: 4th March 2025
Company: Adroitech Pvt. Ltd.

Technology Development and Transfer of soft and functional elastomeric using highly deformable liquid metal and a silicone-based elastomers matrix for mechanically tunable infrared properties.

A smart functional material has been developed by combining the eGaIn liquid metal with silicone-based elastomer. The technology focuses on developing a suitable material composition to achieve mechanically tunable infrared properties. This technology was developed by Prof. Shib Shanker Banerjee from the Department of Materials Science and Engineering at IIT Delhi.

Date of Agreement: **7th March 2025**
Company: **Akashalabdhi Pvt. Ltd.**

The following two technologies were transferred to VIT-Chennai University. These innovative technologies were developed by Prof. Devi Chadha from the Department of Electrical Engineering at IIT Delhi.

Bidirectional Optical Data Packet Switching Interconnection Network: A data vortex interconnection network enabling bidirectional routing of optical data packets in both forward and reverse directions. The architecture of a data vortex network offers high speed and low latency characteristics.

An Optical Q*Q Switch for Fault-Tolerant Routing of Data Communication: An optical Q*Q switch, such as a 4×4 optical data vortex switch, designed to improve fault-tolerant data routing. It connects multiple nodes through input/output links to enable efficient communication in high-performance parallel computing systems. This switch enhances both the bandwidth and data distribution across the network.

Date of Licensing: **20th March 2025**
Institute: **VIT-Chennai University**

The following two technologies were transferred to the Centre for Development of Advanced Computing (CDAC). These innovative technologies were developed by Prof. Samruti Sarangi from the Department of Computer Science and Engineering at IIT Delhi.

TejasCNN and GPUTejas for chip design and simulation activities:

TejasCNN is a framework that integrates TimeLoop with a CNN simulator. It supports various types of memory systems on the NPU and global memory.

GPUTejas is a state-of-the-art GPU simulator featuring a GPU prefetching engine and a realistic warp scheduling engine.

Tejas 1.6 (architectural simulator) for designing chips and conducting simulations: It is the latest version of the simulator designed for creating and running simulations for Network-on-Chip (NoC) with 5-stage routing. Featuring improvements with numerous bug fixing and livelock removal. NoC support for all parallel workloads.

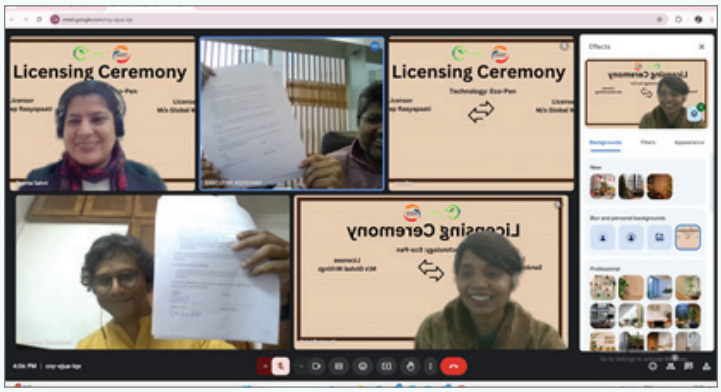
Date of Licensing: **27th March 2025**
Institute: **Centre for Development of Advanced Computing (CDAC).**

IP and TT Management for Other Organizations

I. **FITT, through its Innovation Technology Transfer Office (i-TTO),** provides Intellectual Property Management and Technology Transfer activities to academic institutions (other than IIT Delhi), incubators, science parks and innovation centers, startups, and entrepreneurs.

During January-March, 2025, i-TTO facilitated filing of seven patent applications for IIT Jammu, four industrial designs, two each for IIT Jammu and IIT Ropar-Technology and Innovation Foundation and Urban Air Labs Private Limited, five US patent and two Indian patent applications for Prof. Ashish Ghosh and four patent applications for startups named as GROKALP H2CNT PRIVATE LIMITED, Thrafford Lifescience, Synergy Quantum India Pvt. Ltd., GB Texcoat Solution Pvt Ltd, and three for CYRAN AI SOLUTIONS PRIVATE LIMITED.

II. **On January 16, 2025,** i-TTO facilitated licensing of the eco pen technology developed by the sole innovator, Mr. Sandeep Raayapaati, to Global Writings Pvt. Ltd. This groundbreaking technology has the capacity to transform the writing industry through its environmentally friendly and sustainable design.



III. **On March 10, 2025,** i-TTO signed a transformative MoU with Manav Rachna Vidyanatariksha, Faridabad, to deliver cutting-edge Intellectual Property (IP) and Technology Transfer (TT) services. This dynamic collaboration aims to accelerate innovation, empowering researchers and entrepreneurs to turn ideas into impactful solutions.

IP Awareness and Outreach Sessions

FITT regularly conducts knowledge sessions for various stakeholders (faculty members, research scholars, inventors, students, startups, etc.) from IIT Delhi as well as other organizations.

A list of sessions conducted during this period is provided below:

S. No.	Topic	Organization Name	Date
1	Significance of IPR and Technology Transfer	Manav Rachna Institution	10th January 2025
2	Patentability of AI-Generated Inventions: A Global Perspective on February 6, 2025, by Mr. Abhishek Sen, Senior Patent Attorney & Head of Patent Operations, S. MAJUMDAR & CO.	Indian Institute of Technology Delhi	6th February 2025
3	Role of Industry-Academia Collaboration for strengthening Tech-transfer ecosystem	CUP, Bhatinda	13th & 14th February 2025
4	Process of Innovation Development, Technology Readiness Level (TRL), Commercialization of Lab Technologies and Tech Transfer.	Ideal Institute of Management and Technology (IIMT) Karkardooma, Guru Govind Singh Indraprastha University, Delhi	17th February 2025
5	IPR & Legal Aspects: Trademarks, patents, and copyrights.	IILM Greater, Noida	19th February 2025
6	Process of Innovation Development, Technology Readiness Level (TRL), Commercialization of Lab Technologies & Tech-Transfer under Theme "Validation and Concept Development"	SGT University, Gurugram	20th February 2025
7	As a Judge for Pitch Presentation Mastery	IDE Bootcamp GLA University	21st February 2025
8	Session on IPR	DS Group	25th February 2025
9	Session on Technology Transfer	Institution of Nanotechnology	27th February 2025
10	Challenges & Opportunities in Patenting Healthcare Research by Mr. Avi Garg, a Registered Patent Agent and advocate, and Partner at LEXORBIS	Indian Institute of Technology Delhi	24th March 2025
11	"Falling in Love with Problems" and "Creativity and Idea Generation"	AIC-Prestige Inspire Foundation, Indore	24th March 2025
12	Comparative analysis of Licensing and revenue sharing practices opted by Academic Institutions' Paper Presentation	IIT Kharagpur	29th Match to 30th March 2025

IP awareness session at IIT Delhi on **"Patentability of AI-Generated Inventions: A Global Perspective"** on February 6, 2025, by **Mr. Abhishek Sen**, Senior Patent Attorney & Head of Patent Operations, **S. MAJUMDAR & CO**

IP awareness session on March 24, 2025, on the topic **"Challenges & Opportunities in Patenting Healthcare Research".** The session was delivered by **Mr. Avi Garg**, a Registered Patent Agent and advocate, and Partner at **LEXORBIS**.

Incubation and Entrepreneurship

Portfolio Updates:

- **BraveCore Pvt. Ltd.**

Showcased advanced TPU nanocomposite textile for aerostats at *Startup Mahakumbh 2025*. *Winner of Transport Stack Open Challenge* (JICA, BCG, FITT); to develop autonomous AI-powered robotic system for Delhi Metro.

- **ZERODRAG**

Developed FPV Kamikaze Drone in collaboration with Fleur-De-Lis Brigade & TBRL Chandigarh — milestone in Indian Army's modern warfare capabilities.

- **Motorama EV Pvt. Ltd.**

Raised ₹1.12 Cr seed funding from *Campus Angels*. Featured in *Atlas of TB Innovations* for AI-powered TB detection device showcased at *Indian Innovation Summit 2025*.

- **Ayukriyam Innovations Pvt. Ltd.**

Completed mentorship under *NATHEALTH Health Nexus Accelerator*, engaged with healthcare leaders to showcase proprietary technology.

- **CLUIX Pvt. Ltd.**

Onboarded to *TECHIN's SaniTech Vertical*, won ₹20 Lakhs grant for water & sanitation solutions.

Selected for *Imagine H2O* global accelerator; deployed water quality analyzers across 100 villages in India.

- **Surface Moto**

Commenced deliveries of *Surface C1 e-bike* with positive early customer feedback. Lead time reduced by 60%, focus on scaling production.

- **Indigotex Pvt. Ltd.**

Won ₹50 Lakhs grant from *Ministry of Textiles* and *Startup Maharathi Challenge* at *Startup Mahakumbh 2025*.

- **GroKalp H2CNT Pvt. Ltd.**

Delivered MWCNT Slurry for Li-ion Cell Cathode to client—enabling domestic advanced material supply.

- **Oneqid Technologies Pvt. Ltd.**

Crossed 1 lakh users for digital ID solution *Qid*; 60% tech stack now AI-assisted. Deployed across 150+ properties in 50+ pin codes.

- **Synchronous Drives & Inverters Pvt. Ltd.**

Developed & tested *Titan Inverters T2 series* for EVs — advancing domestic EV component manufacturing.

- **GB Texcoat Solutions Pvt. Ltd.**

Showcased advanced textile material at *Startup Mahakumbh 2025*, secured ₹20 Lakhs order from *DRDO-ADRDE Agra*; booked ₹35 Lakhs total orders in Q1 FY25-26.

Newly Onboarded Startups

S. No.	Name of the startup	About the startup
1	**Balman Eswaran Bio Medicine & Materials Science Pvt. Ltd.**	Developing water-soluble nanocarbon materials with 90% anti-cancer activity. Focused on cost-effective rGO-Mn (II) complex for safe, scalable applications.
2	**Idasu Labs**	AI-powered virtual twin platform for enterprises, offering real-time insights on operations and environmental impact for better compliance and sustainability.
3	**RootSecured Consultant Pvt. Ltd.**	AI-driven network vulnerability tool transforming cybersecurity from reactive to predictive, strengthening digital infrastructure against emerging threats.
4	**Oneqid Technologies Pvt. Ltd.**	Quick Identity (QID) — a secure, digital identity platform enabling individuals to manage and share verified identity information seamlessly.
5	**Ecovative Innovations Pvt. Ltd.**	Creating sustainable, eco-friendly alternatives for packaging, construction, and consumer goods to promote a greener, responsible future.
6	**MYekigai Profound Pvt. Ltd.**	Offers products and services inspired by "Ikigai" to enhance mental well-being, mindfulness, and holistic personal development.
7	**Vaxfarm Lifesciences Pvt. Ltd.**	Innovative biotech startup advancing vaccines and immunotherapies to address global healthcare challenges.
8	**Cryologiq Semiconductors Pvt. Ltd.**	Developing advanced, energy-efficient semiconductor solutions for electronics, industrial systems, and communications.
9	**Agnitech Forge Pvt. Ltd.**	Manufacturing high-quality, precision-forged components for automotive, aerospace, and heavy machinery sectors.
10	**Greenovate Solutions Pvt. Ltd.**	Providing green technologies, renewable energy, and waste management solutions to help businesses reduce environmental impact.

Recent Collaborations:

Programs Launched:

GAIL ABHA 2.0: Empowering Women Entrepreneurs Through Innovation

On January 6, 2025, GAIL ABHA 2.0 was inaugurated at the GAIL Training Institute by esteemed officials from GAIL (India) Limited and DSCE under FITT. This transformative initiative, designed to empower spouses of GAIL employees, was launched to nurture women-led entrepreneurship. A one-year program led by DSCE, GAIL ABHA 2.0 offers training, mentorship, and resources to turn innovative ideas into thriving ventures. With over 400 applications received nationwide, the program is set to drive societal change by equipping women with the tools to lead with innovation and resilience.

DSCE Accelerator Program Launches 2nd Cohort

FITT launched the DSCE Accelerator Program's 2nd Cohort, welcoming innovative startups in clean tech, AI, mobility, sustainability, and social impact. The event featured a keynote, investor panel, and the debut of INNOVACT, DSCE's newsletter, plus a new mentor pool.

Partnership with Envirotech Systems to Transform Waste into Acoustic Innovation

FITT has embarked on an exciting collaboration with Envirotech Systems Limited through a recently signed Memorandum of Understanding (MoU). This groundbreaking partnership aims to revolutionize noise control by transforming agricultural and plastic waste into high-performance, eco-friendly soundproofing materials.

MOU Signings:

MoU Signing with MountTech Growth Fund – Kavachh

A key milestone was marked with the signing of an MoU between FITT and MountTech Growth Fund – Kavachh, reinforcing a shared commitment to fostering innovation and accelerating defence tech ventures. The event featured a keynote by Dr. Ajay Kumar, Former Defence Secretary, who emphasized the power of strategic alliances in shaping the future of defence technology.

MoU Signing with T-Works to Boost Hardware Innovation

FITT and T-Works have signed a Memorandum of Understanding (MoU) to advance innovation, prototyping, and entrepreneurship in India.

FITT Signs MoU with Startup Runway for Global Startup Expansion

FITT signed an MoU with *Startup* Runway to support Indian startups in expanding to the U.S. market. The partnership will provide access to key resources, certification support, investors, and global industry experts.

MoU signing with Envirotech Systems Limited

FITT unveiled a game-changing partnership with Envirotech Systems Limited at AeroIndia 2025, signing an MoU to convert agricultural and plastic waste into eco-friendly soundproofing solutions. Led by FITT, this research-driven initiative pioneers sustainable noise control, advancing a circular economy and a greener future.

MoU Signing with MDI Gurgaon to Boost Startup Innovation

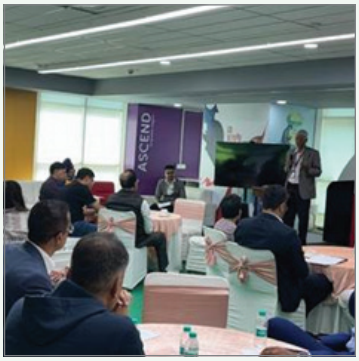
FITT and MDI Gurgaon signed an MoU during the 8th AGC 2025 on January 18, marking a significant milestone in their shared mission to advance innovation and entrepreneurship

Showcased Events

Events Hosted by FITT

Investor-Startup-Mentor Meetup

On February 21, 2025, DSCE and FITT, hosted a dynamic Investor-Startup-Mentor Meetup, uniting visionary startups, seasoned mentors, and top investors. The event buzzed with inspiring talks on innovation-driven entrepreneurship and sustainable growth strategies.

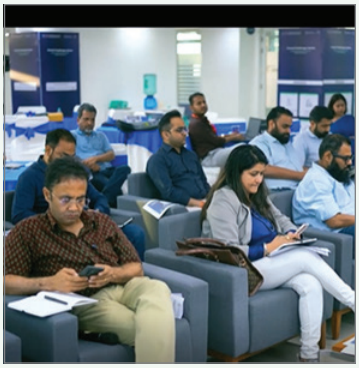


FITT Hosts Workshop on LC-MS in Collaboration with Waters Corporation

FITT, in collaboration with Waters Corporation, successfully hosted a technical workshop on *Liquid Chromatography and Mass Spectrometry* (LC-MS) on 28th March 2025. Designed for researchers, students, and industry professionals, the session covered cutting-edge innovations in LC-MS applications across biotech, pharma, and analytical sciences.

Grand Challenge Series 2024 – Driving Deep-Tech Innovation

FITT in collaboration with MeitY Startup Hub, successfully hosted the Grand Challenge Series 2024 on 22nd March 2025 at RNI, IIT Delhi. The event brought together 18 finalist teams, tackling 5 deep-tech challenges with guidance from 35+ expert mentors in a 12-hour innovation sprint.



FITT Launches Biospark Program to Ignite Grassroots Innovation

FITT, in collaboration with HS Foundation India, launched the Biospark Program to promote grassroots entrepreneurship. The initiative saw enthusiastic participation from colleges and universities in the Mathura region, driving efforts to build vibrant campus-based startup ecosystems.

EMERGY Enviro at Investor-Startup-Mentor Meetup

At the Investor-Startup-Mentor Meetup by DSCE & FITT, Emergy Enviro (Cohort 2) presented its zero-energy, chemical-free wastewater solutions — Green STP and N-Treat in-situ sewage treatment. Founder Mr. Indra Kant highlighted these scalable, net-zero alternatives to conventional STPs to DSCE leadership, investors, and Baring Private Equity Partners India.

Transport Stack Open Innovation Challenge

Organized by JICA, FITT, and BCG, the Transport Stack Challenge accelerated AI-driven smart transit and sustainable urban mobility. At the Pitch Day, top 10 teams from 300+ applicants showcased prototypes to stakeholders from Transport for Delhi, DMRC, DTC, DIMTS, and Chartr, driving solutions for inclusive, future-ready cities.

DriftTECH Innovation Bootcamp

A transformative Residential Bootcamp under Oil India Limited's DriftTECH Innovation Program was successfully concluded at IIT Delhi. Over several days, 10 exceptional startups were immersed in a dynamic environment of innovation and collaboration.

BUILD 4.0 Bootcamp Hailed as a Resounding Success

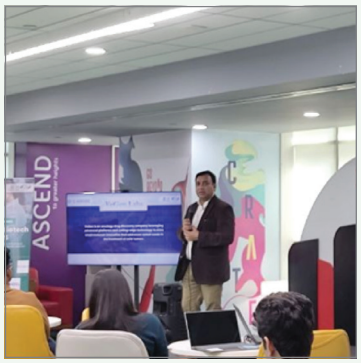
The BUILD 4.0 Bootcamp, hosted by FITT, was celebrated as a triumph. Over two dynamic days, impactful sessions were delivered by industry and investment experts, empowering startups with actionable insights.

World Bank Delegation

On January 31, 2025, a delegation from the World Bank, along with representatives from the National Biopharma Mission (NBM), visited FITT to assess the progress of an NBM-funded initiative. The team was briefed on the evolution and impact of the i-TTO (Innovation-Technology Transfer Office), with a focus on key achievements in intellectual property protection, industry collaborations, and technology transfer.

Investor Showcase to Accelerate Innovation in Healthcare & Biotech

FITT and BSC BioNEST brought together 15+ investors, 9 startups, and 30+ stakeholders for a focused showcase of AI-driven healthcare, diagnostics, therapeutics, and med-tech innovations. The event fostered strategic collaborations, featured expert insights on Health Technology Assessment (HTA), and enabled meaningful investor-startup connections to accelerate growth in the life sciences sector.



Solvathon 2025: Celebrating Innovation & Grit

FITT in collaboration with Apollo Hospitals hosted Solvathon 2025—a 36-hour innovation marathon that brought together brilliant minds from across India. After intense problem-solving and creative breakthroughs, Team Medigenie AI emerged as the winner, with Team Underdawgs and Team Gotraze securing the 1st and 2nd runner-up positions respectively.

Jaypee Group Collaboration

A strategic partnership between FITT, and Jaypee Group has been established to promote innovation and entrepreneur-

ship. Startup growth, business development opportunities, and technology-driven social impact are being prioritized through this collaboration.


Empowering Deep-Tech Startups: DSCE Startup Demo Day

The DS Centre of Entrepreneurship (DSCE), under FITT, hosted an exclusive Startup Demo Day, where 40+ closed-door pitches took place in front of leading investors, including Sanchi Connect, Thinkuvate, GrowX Ventures, SteerX, and Maruti Suzuki Innovation.



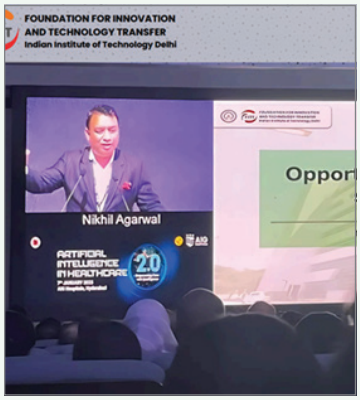

India-Korea Startup Exchange & Networking – A Remarkable Day of Innovation

DSCE & FITT hosted the India-Korea Startup Exchange & Networking event, with a focus on global collaboration and cross-border innovation, uniting startups and leaders from both countries.

FITT - Key Player in the Ecosystem

Future of Artificial Intelligence in Healthcare 2.0

On January 7, 2025, the Artificial Intelligence in Healthcare 2.0 Summit was hosted by the Centre for Artificial Intelligence & Innovation at AIG Hospitals, Hyderabad, with Dr. Nikhil Agarwal, Managing Director of FITT, as the distinguished guest speaker.



1st National DBT BIRAC NBM-RTTO Technology Licensing Event 2025

On February 24, 2025, a significant impact was made by the Innovation-Technology Transfer Office (i-TTO) under FITT at the 1st National DBT BIRAC NBM-RTTO Technology Licensing Event 2025 held at T-Hub, Hyderabad. Innovators, entrepreneurs, and industry leaders in Pharma, Medical Devices, and Diagnostics were brought together, fostering a dynamic platform for collaboration.


Innovation at Intellectual Property Commercialization Workshop

On February 27, 2025, PSCST hosted a key workshop on IP Commercialization & Technology Transfer at INST, Mohali, supported by the Government of India. Dr. Nikhil Agarwal, MD-FITT, emphasized bridging TRL 4-7 for industry adoption. Reema Sahni Mediratta, Head i-TTO, shared best practices to strengthen Punjab's tech transfer ecosystem.


ISHTA 2025: Advancing Health Tech in India

FITT participated in the Indian Symposium on Health Technology Assessment (ISHTA), organized by the Department of Health Research (DHR), Ministry of Health and Family Welfare.

PanIIT 2025: Exploring 'Technology at Work'

FITT participated in *PanIIT* 2025, a premier gathering of innovators and thought leaders from across the country. Representing FITT at the event were Dr. Namita Gupta, Mr. Kiran Sabale & Dr. Prachi Bangde, who engaged in key discussions aligned with the event's theme, "*Technology at Work*." The conference focused on the transformative impact of technology—particularly AI/ML—across critical sectors like mobility, energy, and healthcare, highlighting collaboration between academia, industry, and government.

Khalifa University R&I 2025

FITT made waves at Khalifa University Research & Innovation 2025, showcasing groundbreaking innovations alongside startups and researchers. The team sparked dynamic discussions on investment, tech transfer, and expanding incubated ventures to Abu Dhabi, solidifying FITT's role as a global innovation catalyst.

DS Centre of Entrepreneurship Participated in SANDBOX 2025

DSCE participated in SANDBOX 2025—a dynamic celebration of National Startup Day hosted by Chandigarh University TBI. The event fostered vibrant discussions, idea exchange, and collaboration, with DSCE encouraging young entrepreneurs to turn challenges into opportunities.

FITT & DSCE at AARAMBH 4.0 by Physics Wallah

FITT and DSCE participated in AARAMBH 4.0, engaging with early to growth-stage startups across sectors. DSCE led discussions on product-market fit and iteration strategies, offering valuable insights to help founders refine their offerings and scale effectively.

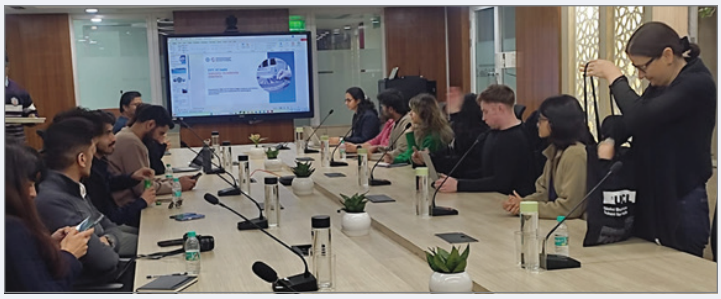
EVENTS @ R&I

International Delegations Connect:

Between January 25 and March 25, several international delegations visited the Research & Innovation Park to understand IIT Delhi's innovation ecosystem and explore cross-border partnerships.

The Volkswagen Group visited on January 20, 2025, to explore synergies for collaboration with IIT Delhi and FITT's research and innovation ecosystem.

Field Visit by UCL Students and Faculty Members (10 Jan 25)



Governor's office of Catamarca Argentina Visit (19 Feb 2025)

Delegation from Infectious Diseases Novo Nordisk Foundation (10 March 2025)

United States Delegation from R&I Visit (17th March 25)

India Educational Foundation (USIEF)

German Delegation visit to the startups at the RNI park 21 March 25 organized by BIRAC

Southern African delegation to BioNEST Visit (25 March 25)

Malaysia-India Startup Exchange: Delegates Visit DSCE & FITT IIT Delhi to Foster Innovation Partnerships

List of Current Corporate Partners

National Center for Assistive Health Technology	Novo Nordisk Foundation India
INRM Consultants Pvt Ltd	DS Centre for Entrepreneurship
DV2JS Innovation LLP	BotLab Dynamics Pvt Ltd
Aftershoot Pvt Ltd	Tata Consultancy Services
Mitsui Kinzoku Components India Pvt Ltd	

List of IP applications filed during Jan-Mar 2025:

S. No.	Title	Inventor (Professor)	Department
1	Process for Crystallization Modulation and Defect Passivation in Perovskite Solar Cells	Trilok Singh	Department of Energy Science and Engineering
2	A Mixed-Phase Metal Composite for Cathode and a Method of Preparation Thereof	Vipin Kumar	Department of Energy Science and Engineering
3	A Serviceable Battery Pack With Hybrid Cooling System	Deepak Kumar	Centre for Automotive Research and Tribology
4	A System Configured to Exchange Heat with Different Devices	B. Premachandran	Department of Mechanical Engineering
5	Heat-Resistant Self-Compacting Mortar-Based Bamboo Wall Panel	Supratic Gupta	Department of Civil Engineering
6	Compact Robust Modulation-Free Laser Frequency Stabilization for Quantum Device Applications in Noisy Environment	Bodhaditya Santra	Department of Physics
7	Compact and Portable Optical Tweezer System for Industrial and Research Applications	Bodhaditya Santra	Department of Physics
8	Photoelectrode for Co2 Reduction, Methods and Applications Thereof	Kamal Kishore Pant	Department of Chemical Engineering
9	Axial Structured Illumination Phase Tomography	Kedar Bhalchandra Khare	Department of Physics
10	Magnetic Microfluidic Apparatus Integrated with Capacitive Sensor for Drug Screening and Label-Free Quantification	Dhiman Mallick	Department of Electrical Engineering
11	Polymer-Free Surface Modified Drug-Eluting Metallic Stents	Priya Vashisth	Centre for Biomedical Engineering
12	Stepped Pressure Ito Sputtering Method for Silicon Devices with Reduced Plasma-Induced Damage.	Vamsi Krishna Komarala	Department of Energy Science And Engineering
13	Compact Magneto Optical Trap (MOT) as a Reservoir of Cold Atoms with Large Optical Access for Applications in Quantum Computing	Bodhaditya Santra	Department of Physics
14	System and Method for Generation and Propagation of Polarization Entangled Photons Simultaneously with Classical Signals	Bhaskar Kanseri	Department of Physics
15	Process of Preparing Hollow Core Ultrathin Faujasite	Manjesh Kumar	Department of Chemical Engineering
16	A Process for Preparation of Iron Fluoride Impregnated Microporous Carbon and Application Thereof	Bhanu Nandan	Department of Textile and Fibre Engineering
17	Autostain Device	Ravikrishnan Elangovan	Department of Biochemical Engineering and Biotechnology
18	Stabilized Electrochromic Device with Carbon Nitride-Wrapped Tungsten Oxide and Method of Synthesis Thereof	Ritu Gupta	Department of Chemistry
19	An Optical System Having a Diffuser-Grating Pair for Angularly Diverse Single Plane Illumination	Manish Kumar	Centre for Sensors, Instrumentation and Cyber Physical System Engineering (Sense)
20	A Wearable Ultrasound System for Human Machine Interfaces	Biswarup Mukherjee	Centre for Biomedical Engineering

S. No.	Title	Inventor (Professor)	Department
21	Optical Receiver Front-End Device for Optical Wireless Communication	Abhishek Dixit	Department of Electrical Engineering
22	A Voltage-Controlled Oscillator (VCO) System and Method for Generating an Oscillating Signal Using VCO System	Kaushik Saha	Department of Electrical Engineering
23	Aptamers Against Clumping Factor A (CLFA), Methods and Implementations Thereof	Prashant Mishra	Department of Biochemical Engineering and Biotechnology
24	Methods for Developing Carbonized Cellulose Films and Fabricating Electrodes for Supercapacitors	Archana Samanta	Department of Textile and Fibre Engineering
25	System and Method for On-Board Fault Diagnosis of Electric Vehicle Motors	S. Fatima	Centre for Automotive Research and Tribology
26	Method for Enhancing Supercapacitor Performance Using Nickel Foam as Active Material Source and Current Collector	Bhanu Nandan	Department of Textile and Fibre Engineering
27	A Composite Substrate for Smart Thermal Management and a Method of Manufacturing of the Same	Shib Shankar Banerjee	Department of Material Science and Engineering
28	A Method of In-Situ Manufacturing of High Entropy Alloys	Sivanandam Aravindan	Department of Mechanical Engineering
29	Brillouin Pump Shaping for Flat Response Scalable Photonic Filter and Method Thereof	Amol Choudhary	Department of Electrical Engineering Investor – Startup - Mentor Meetup
30	Method for Optimizing Efficiency of a Wound Rotor Synchronous Machine and System Thereof	Surajit Saha	Department of Electrical Engineering
31	An Immunosome and a Method of Preparation Thereof	Jayanta Bhattacharyya	Centre for Biomedical Engineering
32	A Hollow Core-Shell Hetero-Nanostructure for Hydrogen Evolution Reaction and Method of Preparation Thereof	Soutik Betal	Department of Electrical Engineering
33	Methods and Systems for Enabling Federated Learning on 3GPP Edge App Architecture	Brejesh Lall	Department of Electrical Engineering
34	A Protective Device	Puneet Mahajan	Department of Applied Mechanics
35	Self-Sanitized Chitosan-Copper Oxide (Ch-Cuo) Textile Against Bacteriophage Virus: An Efficient Bioguard	Syed Wazed Ali	Department of Textile and Fibre Engineering
36	Integrated Passive Energy Dissipation Device for Multi-Hazard Damage Mitigation and Vibration Control in Building Structures	Suresh Bhalla	Department of Civil Engineering
37	Genetically Engineered Zymomonas Mobilis for the Production of Biochemicals	Ashish Misra	Department of Biochemical Engineering and Biotechnology
38	Engineered Bacillus Subtilis Strains for Xylose and Glucose Co-Utilization for 2,3-Butanediol Production	Ashish Misra	Department of Biochemical Engineering and Biotechnology
39	System and Method for Generating a Plurality of Linear Chirp Signals	Rakesh Kumar Palani	Department of Electrical Engineering
40	DC-DC Converter for Interfacing a Battery Bank with a DC Microgrid	Sumit Kumar Chattopadhyay	Department of Energy Science And Engineering

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