Foundation for Innovation and Technology Transfer (FITT)

Quarterly NEWSLETTER

October–December 2024

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 corporates, 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 October to December 2024, FITT facilitated 43 R&D, technology development, and consultancy projects totaling INR 29.3 Cr.

Notable projects initiated during this period:

Project Title	PI	Department/Centre
“DRIVES” (Deploying Refraction Increases Vehicular Safety)	Rahul Goel	Transportation Research and Injury Prevention Programme
Enabling Expert Curriculum Support in Digital Design for High School Students	Jyoti Kumar	Department of Design
Scientific Study on the Usage of ICT Tools in Early Childhood Education	Jyoti Kumar	Department of Design
Development and Prototyping of Smart Warehouse IoT Sensors with Software - Order 4	Sunil Jha	Mechanical Engineering Department
Design and Development of Sensor-Fused Munition	Mukul Sarkar	Electrical Engineering Department
Design, Development, and Integration of an Indigenous single-photon avalanche diode-based laser Module and its fitment on a guided bomb	Mukul Sarkar	Electrical Engineering Department
Cadence Innovation Lab	Jayadeva	Electrical Engineering Department

Major R&D Partners/Industries:

- Vision Spring Inc.
- Michael & Susan Dell Foundation India Grant Application
- CSC Academy, New Delhi
- United Nations (UN) World Food Programme (WEP) India
- Indian Army
- Cadence Design Systems Inc.
- Guwahati Metropolitan Development Authority
- Google Asia Pacific Pvt. Ltd.
- Mitsubishi Electric Automotive India Pvt. Ltd.
- Toshiba Software India Pvt. Ltd.
- Jindal Stainless Limited
- Microsoft Research Lab India Pvt Ltd.
- Serum Institute Of India Pvt. Ltd.

Major collaborations:

ANNA Chakra with the World Food Programme

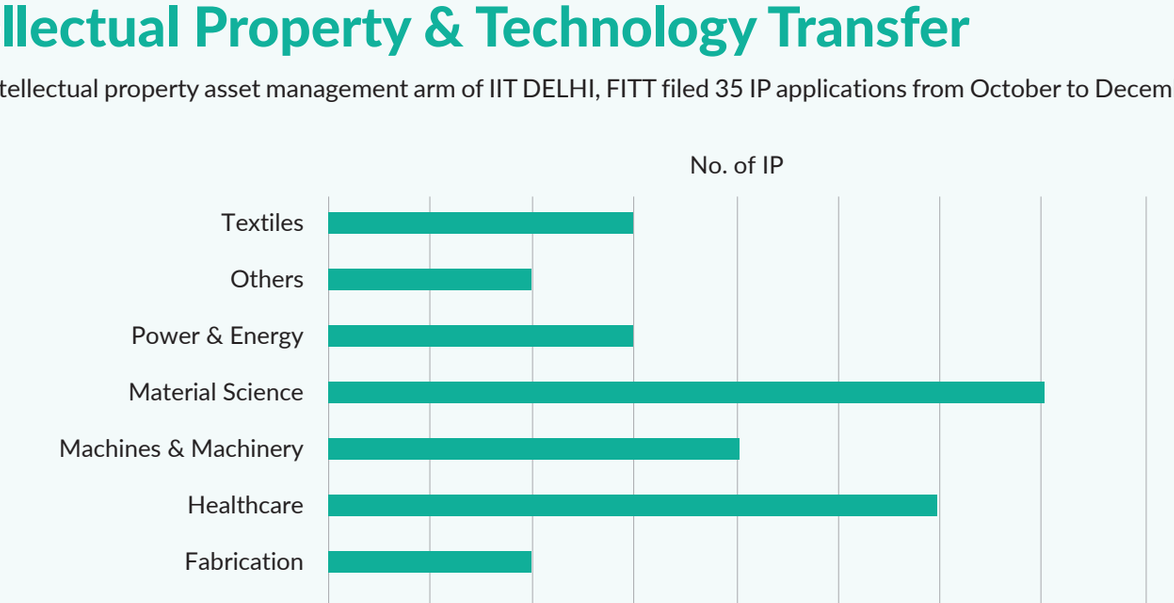
FITT signed an MoU dated 5th December 2024 with the World Food Programme for the project titled "Anna Chakra" in the presence of Shri Sanjeev Chopra, Secretary, Department Of Food And Public Distribution , DFPD of the Government of India. 'Anna Chakra' is a PDS Supply Chain Optimization tool and Inter-state Route Optimization Tool. Prof. Nomesh Bolia, Department of Mechanical Engineering, IIT Delhi, is the principal investigator for the project.

GIZ | Deutsche Gesellschaft für Internationale Zusammenarbeit

FITT signed an agreement dated 26th December 2024 with GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit for the project "Low Carbon Cement (LC3) Feasibility Study" for implementation in Malawi. Prof. Shashank Bishnoi, Department of Civil Engineering, IIT Delhi, is the principal investigator for the project.

Intellectual Property & Technology Transfer

As the intellectual property asset management arm of IIT DELHI, FITT filed 35 IP applications from October to December 2024.



List of IP applications filed during OCT-DEC 2024:

S.No.	Title	Inventor (PI: Professor)	Department
1	A Solid-Glass-Electrolyte Coated Sodium Metal Anode, Method for Preparation Thereof, and A Roomtemperature Sodium-Sulfur Battery	Vipin Kumar	Department of Energy Science and Engineering
2	An Induction Motor Drive, Control System and Method for Controlling The Induction Motor Drive	Avanish Tripathi	Department of Energy Science and Engineering
3	Ingestible Device and Process for Collecting Gastrointestinal Samples	Sarvesh Kumar Srivastava	Centre for Biomedical Engineering
4	A System and a Method of Optimal Designing of Array of Photodiodes for Increased Degree of Freedom in LI-FI	Monika Aggarwal	Centre for Applied Research in Electronics
5	A System and A Method for Sparse Array Gaussian Beamforming in Joint Sensing and Communication (JSAC)	Monika Aggarwal	Centre for Applied Research In Electronics
6	Advanced Sparse Fractal Arrays with Maximized Degree of Freedom for 5G Laptops	Monika Aggarwal	Centre for Applied Research In Electronics
7	Smart Rechargeable Thermoelectric Container with Automatic Temperature Control with Cooling and Heating Facilities for Preservation and Transportation of Biomedical and Chemical Samples	Debabrata Dasgupta	Department of Mechanical Engineering
8	An Air Stable 3D Anode and Method of Preparation Thereof	Vipin Kumar	Department of Energy Science And Engineering
9	Bolted Braced Frame Structural System and In-Plane Buckling Connecting Assembly	Dipti Ranjan Sahoo	Department of Civil Engineering
10	Advanced Mango Assessment System for Small Scale Farmers	Badri Prasad Patel	Department of Applied Mechanics
11	Four-Wire Off-Grid Dfig-Battery Wind Microgrid with Neutral Current Compensation for Enhanced Transformer Protection and Reliability	Bhim Singh	Department of Electrical Engineering
12	Markerless, Non-Contact Optical Myography System for Human-Machine Interfaces	Biswarup Mukherjee	Centre for Biomedical Engineering
13	Regenerable Anodized Porous Alumina Device and A Method of Fabrication Thereof	Bhaskar Mitra	Department of Electrical Engineering
14	Integrated Sensing And Communication in The Presence of Mobility and Delay Spread	Saif Khan Mohammed	Department of Electrical Engineering
15	Two-Electrode Plasma Device Scalable for High-Density Charged Medium Generation and Uniform Surface Treatment	Bibhuti Bhusan Sahu	Department of Energy Science and Engineering
16	A Fluorinated Poly Aromatic Heterocyclic-Co-Aryl Piperidine) Ionomer Based Catalyst Binder and a Process for Preparation Thereof	Bijay Prakash Tripathi	Department of Material Science and Engineering
17	Method for Generating Phosphorous-Doped Nano-Crystalline Silicon Thin Films	Vamsi Krishna Komarala	Centre for Energy Studies
18	A Thermally Insulating Fabric with A Film of Flexible Silica Aerohgel and A Method for its Preparation	Harun Venkatesan	Department of Textile and Fibre Engineering
19	System for High-Density Ionized Species Production in Thin-Film Deposition	Bibhuti Bhusan Sahu	Department of Energy Science and Engineering
20	A Method for Producing High-Strength Sustainable Cellulose Fibers From Agriculture Residue and Textile Waste	Archana Samanta	Department of Textile and Fibre Engineering
21	A Low Power Consumption Apparatus and Method for Computing A Square Root	Archana Samanta	Department of Textile and Fibre Engineering
22	Imaging Systems	Manish Kumar	Centre for Sensors, Instrumentation and Cyber Physical System Engineering(Sense)
23	A Method for Producing Recombinant Biosurfactant	Preeti Srivastava	Department of Biochemical Engineering and Biotechnology

S.No.	Title	Inventor (PI: Professor)	Department
24	A Method for Fabrication of Micro & Nanostructures on ito Film by Continuous Wave Laser Ablation	Joby Joseph	Department of Physics
25	Multi-Hit Ballistic Armour Plate Forattrition of High Energy Hardened Steel Coreprojectiles	Naresh Bhatnagar	Department of Mechanical Engineering
26	A Method for Enzymatic Biotransformation of Polyaromatic Hydrocarbon	Preeti Srivastava	Department of Biochemical Engineering and Biotechnology
27	Mechanical Attachment to Evaluate the Interfacial Shear Strength of Fibre-Reinforced Polymer Composites	Sohel Rana	Department of Textile and Fibre Engineering
28	Transition Elelment Doped Sodium Manganese Oxide, A Process for its Preparation and Fabrication to Anode	Ashok Kumar Ganguli	Department of Chemistry
29	Agro-Waste Biomass Pellet-Based Cookstove Cleaner Than LPG Stove	S.K.Tyagi	Department of Energy Science and Engineering
30	Nucleic Acid Aptamers for Detecting Aflatoxin B1	Hariprasad P	Centre for Rural Development and Technology
31	A Stable Bone Morphogenetic Protein -2 Complex and Formulation Containing The Same	Shashank Deep	Department of Chemistry
32	A Method of Producing Ceramic Coating Paste for Protective Applications	Abhijit Majumdar	Department of Textile and Fibre Engineering
33	Phakic Intraocular Lens with Ring-Like Structure to Improve Stability And Method Thereof	Gufran Sayeed Khan	Centre for Sensors, Instrumentation and Cyber Physical System Engineering (Sense)
34	Connecting Assembly and Braced Framed Systems	Dipti Ranjan Sahoo	Department of Civil Engineering
35	Permanent Magnet Motor with Less Rare Earth Mixed Grade Segmented Poles Rotor	Amit Kumar Jain	Department of Electrical Engineering

FITT facilitates the commercialization of valuable intellectual property through technology transfer and licensing agreements. FITT has successfully completed eight technology licensing deals, during this period.

AC motor-powered Tulsi mala bead-making device

This innovative device enables the creation of wooden beads of various shapes and sizes, ranging from 5mm to 25mm in diameter, through precise turning operations. Key features include simultaneous turning and drilling, speed regulation via foot paddle, an adjustable tool post, and an integrated alignment mechanism for pin and stem holder shafts. The hassle-free stem holding mechanism and integrated clamp ensure ease of operation and seamless pin replacement. This technology was developed by Prof. S. K Saha and his team from Department of Mechanical Engineering at IIT Delhi.

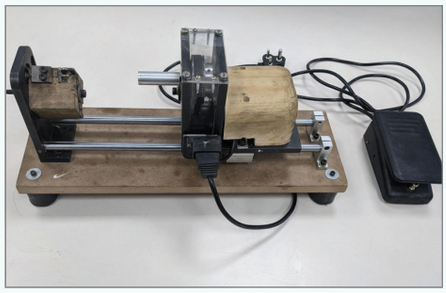


Image: AC motor powered Tulsi mala bead making device
Date of Licensing: 9th October 2024
Company: SVR Infotech

The following five technologies were transferred to Ayukriyam Innovations Pvt. Ltd. This innovative technology was developed by Prof. Ravikrishnan Elangovan, Department of Biochemical Engineering and Biotechnology at IIT Delhi.

Date of Licensing: 18th October 2024
Company: Ayukriyam Innovations Pvt. Ltd.

- **Microfluidic Analyser for In-Vitro Biosensing and Diagnostics:** A device for simultaneous bioassay processing of multiple biological samples to detect biomarkers like proteins, DNA, and metabolites with high precision.
- **Autostain:** An automated platform for uniform smear preparation and staining of up to four slides, ideal for Pap and TB sample analysis.
- **Composition for Mucus or Sputum Liquefaction:** A safe and efficient solution for liquefying sputum samples to detect pathogens and biomarkers with high specificity and reproducibility.
- **Autoscope:** An AI-assisted slide scanner that processes six slides simultaneously, detects abnormalities, and generates detailed reports for seamless diagnostic integration.
- **iScope:** A portable, high-resolution slide scanner that captures and uploads images for remote pathology and analysis.

Wool and Wool Blended Denim with Low Felting Shrinkage and Improved Mechanical and Comfort Properties: Wool fabric was dyed with indigo using the exhaust method, optimizing dyeing parameters like sodium hydrosulphite concentration, pH, and temperature. A pH of 6 provided uniform dyeing with no strength loss, while pH 11 gave maximum color yield but caused fiber degradation. The best results were achieved at 80°C, beyond which wool showed increased strength and weight loss under alkaline conditions. This innovative technology was developed by Prof. B. S. Butola, Department of Textile and Fibre Engineering at IIT Delhi.

Date of Licensing: 28th October 2024
Company: Indigotex Private Limited

Acoustic Vector Sensors (AVS) for Air and Underwater Applications

Acoustic Vector Sensors (AVS) measure 4D acoustic quantities, including 3D particle motion and pressure, to determine the direction of sound waves with superior directivity (4.8–6 dB) compared to single sensors. Compact and versatile, AVS enables high-resolution sound localization in air and underwater, ideal for applications requiring compact setups. This innovative technology was developed by Prof. Arun Kumar, Centre for Applied Research in Electronics at IIT Delhi.

Date of Licensing: 3rd December 2024
Company: DELSIG Systems Pvt. Ltd

IP and TT Management for Other Organizations

I. FITT is managing the IPR portfolio of the School of International Biodesign SiB program at AIIMS-IIT Delhi DBT. Under this, the following two technologies were transferred:

a. **Technology:** A device to prevent catheter associated urinary tract infection.

Company Name: Medlarks Private Limited

b. **Technology:** Integrated needle guidance and tracking solution for image guided interventional procedures and method thereof

Company Name: Prezitec Health Private Limited

II. **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 October - December, 2024, iTTO facilitated filing of two patent applications, one each for IIT Jammu and the start-up Fabiosys Innovations Private Limited.

III. **Innovation Technology Transfer Office (i-TTO), FITT, signed an MoU** dated 30th November 2024 with IMS Engineering College, Ghaziabad for providing IP and TT services.

IP Awareness and Outreach Sessions

FITT regularly conducts knowledge sessions for various stakeholders (faculty members, research scholars, inventors, students, start-ups, 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.	Leveraging ISO Innovation Standards to Streamline Defence IP & Technology Transfer	DRDO, Ministry of Defence, Govt. of India ITM Mussoorie	24th & 25th October 2024
2.	Publicly Funded IP & Management of Tech Transfer Offices/Incubators	National Law University Delhi	7th November 2024
3.	Technology Transfer & Intellectual Property Symposium 2024	National Law University Shillong , Meghalaya	15th & 16th November 2024
4.	Challenges Faced by i-TTO during transfer of Technology in the Domain of Healthcare Sector	WHO Conference, Thiruvananthapuram, Kerala, India	19th – 21st November 2024
5.	Significance of IP and Tech-Transfer in Academic Institutions	IILM University Gurugram	30th November 2024
6.	IP Audit and Due Diligence with Scientists and Technologists	Ministry of Electronics & Information Technology (MEITY), Mohali, Punjab	10th December 2024
7.	Interactive Dialogue on India's Intellectual Property Ecosystem	Panjab University, Chandigarh	20th December

Incubation and Entrepreneurship

The Institute's incubation program aims at converting technology-based innovative ideas into commercially viable products. Over the years, the Incubator has nurtured startups at a high success rate. It has evolved into an ecosystem with its scale-up at the Research and Innovation Park of IIT Delhi, which has facilities to house more than 125 startups.

Recent Collaboration:

JICA- Transport Stack Open Innovation Challenge – an initiative designed to drive innovation in mobility, organized by the Foundation for Innovation and Technology Transfer (FITT) IIT Delhi in partnership with Japan International Cooperation Agency (JICA), Supported by MeitY Startup Hub, with Boston Consulting Group (BCG) as the knowledge partner. Delhi Transport ecosystem including DMRC, DTC, and DIMTS are the PoC partners, and Chartr & IIIT Delhi are technical partners for the challenge.

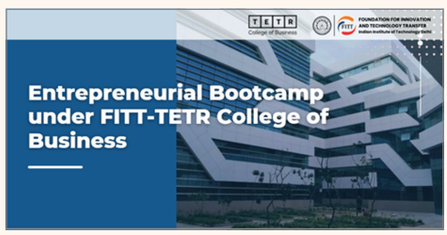
This challenge aims to foster collaboration between innovators, researchers, and technology experts to address real-time transportation issues through innovative solutions. The challenge encourages the development of innovative, data-driven solutions to optimise transport systems, improve operational efficiency, and enhance the overall user experience.

MoU with Singhania & Co.

FITT signed an MoU with Singhania & Co. to provide a platform for startups to access top-tier legal support, driving their growth and success. This alliance is designed to help startups effectively navigate complex legal frameworks, overcome challenges, and bridge the gap between cutting-edge innovation and real-world industry needs.

TETR College of Business to Launch Entrepreneurial Bootcamp for Aspiring Entrepreneurs

DS Centre of Entrepreneurship at FITT, in partnership with TETR College of Business, is launching an Entrepreneurial Boot Camp in February 2025, designed to cultivate entrepreneurial skills in students worldwide. This 1.5-month program at FITT, IIT Delhi, features expert-led sessions, hands-on industrial visits, and real-world business exposure. The boot camp concludes with students pitching their prototypes to a panel of entrepreneurs, faculty, and investors, with top performers securing immersive internships with partner firms. The program includes components such as continuous incubation support and the Bootcamp Conclusion Challenge, equipping students with the experience and knowledge needed to excel in the entrepreneurial world.



Portfolio Updates:

Portfolio Achievements

- **Vecmocon Technologies (EV Intelligence Startup):** Secured **$10 million** in Series A funding. Vecmocon specializes in **battery management systems, EV intelligence services,** and more. December 2024

- **Botlab Dynamics (FITT portfolio startup):**
- Set a **Guinness World Record** by flying **5,500 drones** simultaneously across five categories, supported by the **Ministry of Civil Aviation, Government of Andhra Pradesh, Airport Authority of India,** and **Drone Federation India (DFI)**. Special recognition to **Mr. Smit Shah**, President of DFI, for his belief in the startup.

- **ADITI 1.0 Awards:** Three **FITT-incubated startups** were declared winners in the **ADITI 1.0** challenge:
- **Green Aero Propulsion:** Innovating with **green hydrogen-based technologies** to decarbonize aviation and shipping.
- **CYRAN AI Solutions:** Providing advanced **AI** and **Cyber-Physical Security** technologies.
- **Komitsudo Energitek Pvt. Ltd.:** Focused on advanced solutions in the **Energy Storage** industry.

Newly Onboarded Startups

S.No.	Name of the startup	About the startup
1	**Balman Eswaran Bio Medicine And Materials Science Private Limited**	Company has developed an innovative two-step strategy to produce water-soluble nanocarbon materials, including Fullerene, SWCNT, and rGO/Graphene. These derivatives demonstrate impressive 90% anti-cancer activity, with a 70% cell viability rate. However, we are moving forward with the rGO-Mn (II) complex due to its cost-effectiveness, large domestic availability, and nano-size properties. Importantly, the rGO-Mn (II) complex has shown no adverse side effects, making it an ideal choice for our ongoing research and development.
2	**Idasu Labs**	This platform offers a sector-agnostic, AI-enabled virtual twin of the enterprise, accessible via the cloud. It provides a comprehensive view of operations and environmental impact, helping businesses understand their environmental footprint, develop effective mitigation strategies, and generate auditable reports. This holistic approach ensures organizations can make informed decisions while meeting sustainability and compliance requirements.
3	**RootSecured Consultant Pvt. Ltd.**	AI-Enhanced Network Vulnerability Assessment Tool, RootSecured aims to revolutionize cybersecurity practices, transitioning from reactive to predictive security management. This initiative not only positions RootSecured as a leader in AI-driven cybersecurity solutions but also significantly contributes to fortifying global digital infrastructures against the cyber threats of tomorrow.
4	**Oneqid Technologies Pvt Ltd**	QID (Quick Identity) is a secure platform designed to help individuals manage, verify, and share their true identity seamlessly. With QID, users can store essential identity details, control access to their personal information, and share it selectively with trusted parties.
5	**Ecovative Innovations Pvt Ltd**	Ecovative Innovations Pvt Ltd is a dynamic startup focused on creating sustainable and eco-friendly solutions for a greener future. Specializing in innovative materials, the company develops environmentally responsible alternatives to traditional products, particularly in packaging, construction, and consumer goods.
6	**MYekigai Profound Pvt Ltd**	MYekigai Profound Pvt Ltd is an emerging startup focused on enhancing well-being and personal growth through innovative solutions. Drawing inspiration from the Japanese concept of “Ikigai”—the intersection of passion, mission, vocation, and profession—MYekigai Profound aims to help individuals and organizations achieve balance, purpose, and fulfillment. The company offers a range of services and products designed to promote mental health, mindfulness, and holistic development.
7	**Vaxfarm Lifesciences Pvt Ltd**	Vaxfarm Lifesciences Pvt Ltd is an innovative biotech startup focused on advancing the development and production of vaccines and immunotherapeutics. With a commitment to improving global health, Vaxfarm Lifesciences specializes in the research, development, and commercialization of cutting-edge vaccines to prevent infectious diseases and enhance immune responses. The company leverages state-of-the-art technology and scientific expertise to address unmet healthcare needs, aiming to make life-saving vaccines more accessible and effective.
8	**Cryologiq Semiconductors Pvt. Ltd.**	Cryologiq Semiconductors Pvt. Ltd. is a pioneering startup specializing in the development and manufacturing of advanced semiconductor solutions. Focused on driving innovation in the electronics and technology sectors, Cryologiq Semiconductors delivers high-performance, energy-efficient semiconductor products designed for a wide range of applications, including consumer electronics, industrial systems, and communication networks. The company combines cutting-edge research, precision engineering, and sustainable practices to create reliable and scalable solutions, aimed at meeting the growing demands of the modern digital world
9	**Agnitech Forge Pvt. Ltd**	Agnitech Forge Pvt. Ltd. is an innovative manufacturing startup specializing in the production of high-quality forged components for a variety of industries, including automotive, aerospace, and heavy machinery. The company leverages advanced forging techniques and state-of-the-art technology to deliver durable, precision-engineered products that meet the strictest performance standards.
10	**Greenovate Solutions Pvt. Ltd.**	Greenovate Solutions Pvt. Ltd. is a startup focused on providing sustainable, eco-friendly solutions to help businesses reduce their environmental impact. Specializing in green technologies, renewable energy, and waste management, the company empowers organizations to adopt more sustainable practices and achieve their sustainability goals for a greener future.

Events Hosted by FITT

Samsung Solve for Tomorrow (4th October 2024)

FITT partnered with Samsung India for the third edition of Solve for Tomorrow, a global program conducted across 63 countries. This national education and innovation competition, focused on STEM and Design Thinking, concluded on 4th October, 2024. The top 10 teams, represented by 22 students, were selected for the Grand Finale to pitch ideas and showcase prototypes to the Grand Jury. Eco Tech Innovator from Golaghat, Assam was declared the Community Champion in the School Track while METAL from Udupi, Karnataka was announced as the Environment Champion in the Youth Track, demonstrating the reach of the programme outside major Indian cities.

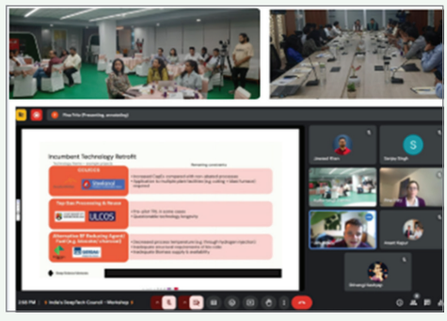
Eco Tech Innovator, which developed an idea around equitable access to non-contaminated potable drinking water, received a seed grant of INR 25 lakh for prototype advancement. METAL, which developed technology for arsenic removal from ground water, received a grant of INR 50 lakh for incubation at IIT Delhi. Mr. J.B. Park, President and CEO, Samsung Southwest Asia and Mr. Shombi Sharp, United Nations Resident Coordinator in India awarded certificates and trophies to the winners.

DeepTech Super Mixer (11th October 2024)

DS Centre of Entrepreneurship at FITT, in collaboration with Sanchi Connect, hosted a DeepTech Mixer at FITT, IIT Delhi, attracting over 20 investors and 60 startups. The event provided a vibrant platform for founders to showcase ideas, receive feedback, and connect with investors from prominent organizations. This initiative empowered startups, fostering growth and innovation in the deep tech ecosystem.

The Deep Tech Council Event (22nd October 2024)

The Deep Tech Council event, organized by I2E BML Munjal, DS Centre of Entrepreneurship at FITt, and Deep Science Ventures, explored the role of deep tech in addressing challenges across sectors like agriculture, climate, computation, and health. The workshop featured case studies, discussions, and networking opportunities, empowering startups with insights and connections to scale their ventures and drive innovation in deep tech.



Indore Innovest (24th October 2024)

FITT, in collaboration with Ivy League Ventures and DS Centre of Entrepreneurship, hosted the Indore Innovest event, which event brought together global leaders, industry veterans, and entrepreneurs, featuring engaging panels on the role of investors in shaping India's startup ecosystem.

Downstream and Diagnostic Workshop (6th December 2024)

The workshop, organized by FITT in collaboration with Cytiva, catered to startups and students, with a focus on advancements in diagnostics and laboratory solutions. It covered optimized filtration techniques as well as strategies for point-of-care diagnostics, including material selection and ensuring long-term stability. The event provided valuable insights from industry experts and offered excellent networking opportunities for professionals in the field.

PepsiCo educational immersion program (10th December 2024)

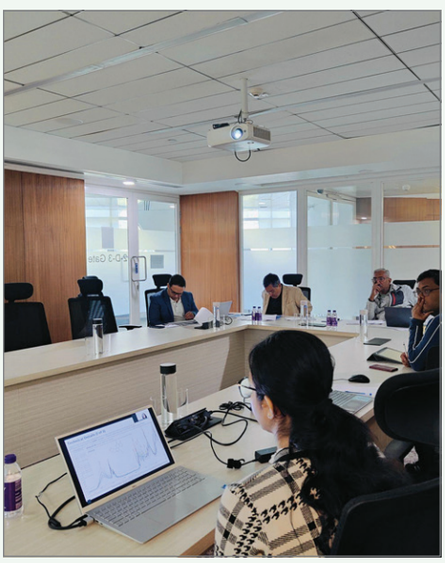
The program included a series of insightful sessions, including Founder's Talk and Investor's Talk on funding and scaling businesses. Participants toured the R&D facilities to gain hands-on experience with emerging startups and technologies. The program also featured a session with an IIT Delhi expert offering a startup perspective, concluding with a brainstorming session that encouraged collaborative discussions on sustainability, and tech innovations. The event provided valuable learning and networking opportunities between PepsiCo and IIT Delhi experts.

BIRAC-BIG (12th - 13th December 2024)

FITT, in collaboration with BIRAC, held the BIRAC BIG 24th Call Committee Review Meeting to evaluate applications for the Biotechnology Ignition Grant (BIG) program. The meeting aimed to select the top finalists who will proceed to the Technical Evaluation Panel (TEP) stage, organized by BIRAC.

The program invited applications from eligible individuals and startups working in the life sciences sector across India. A total of 124 applications were received, showcasing innovative ideas and cutting-edge research in the field of biotechnology. The committee carefully reviewed each submission based on criteria including scientific merit, innovation potential, and commercial viability.

Following the thorough evaluation process, the committee selected the most promising applicants to advance to the TEP, where they will undergo a detailed technical assessment.



Programs Launched

Apollo Solvathon 2.0 Hackathon (9th December 2024)

The Apollo Solvathon 2.0 Hackathon, launched on 9th December 2024, is a platform for startups and innovators to address six healthcare challenges curated by Apollo's medical professionals. With applications closing on 12th January 2025, participants can choose from the following problem statement themes: live translation and transcription tools for medical conversations, in-room digital information dashboards with live updates for patients, low-power wearables with multimodal transmission, AI-driven tools for elderly care nurses, multilingual context-aware AI bots, and automated conversion of scanned reports into digital formats with lab trends and flowsheets. Shortlisted teams will undergo mentorship from IIT Delhi academia and Apollo industry experts and participate in a 36-hour hackathon at the Research & Innovation Park, IIT Delhi. Furthermore, the top-performing teams will have the exclusive opportunity to showcase their innovations at the Grand Finale during the Apollo THIT Conference 2025 scheduled on 22nd February 2025.

GAIL ABHA 2.0

In a collaborative effort to empower women and nurture their entrepreneurial potential, FITT and GAIL India Limited have introduced GAIL ABHA 2.0, a pioneering initiative aimed at fostering innovation and self-reliance among the spouses of GAIL employees. This one-year hybrid program, set to begin shortly, seeks to understand the entrepreneurial orientation of these women and identify effective ways to enhance and support their aspirations.

Research & Innovation Park

IIT Delhi Research and Innovation Park is a managed facility with a focus on innovation and product development where IIT Delhi, industry, entrepreneurs, and government agencies interact and enable the creation of advanced technological solutions.

- To accelerate research translation
- Provide avenues for IIT Delhi students and faculty to interact more closely with industry and bring to market technological breakthroughs through incubation
- Amplify technological and societal impact of R&D at IIT Delhi
- Galvanize entrepreneurial aspirations

Facilities in Research & Innovation Park

For those who aren't a part of the research community yet, R&I Park , IIT Delhi extends opportunities to take advantage of its state-of-art facilities by booking them for events, conferences, workshops, etc.

- Auditorium (Capacity up to 110 People)
- Board Room (Capacity up to 35 People)
- Mini Board Room (Capacity up to 14 People)
- Conference Halls (Capacity up to 10 People)
- Meeting Rooms (Capacity up to 5 People)
- Training Room (Capacity up to 26 People)
- Cafeteria
- Suite Rooms (Single & double occupancy)
- Electronic Laboratory
- Mechanical Lab Laboratory
- Bio-Nest Lab Laboratory

Research & Innovation Park

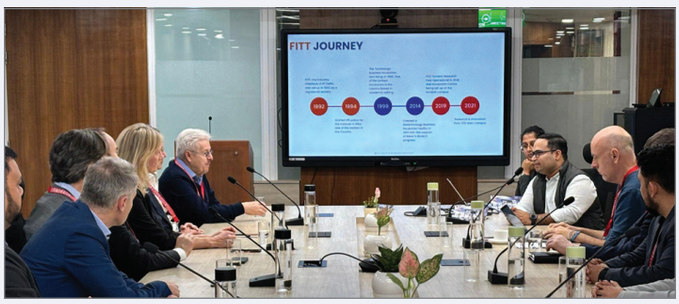
EVENTS @ R&I

International Delegations Connect:

Several international delegations visited the R&I Park to understand the innovation ecosystem and explore cross-border partnerships. During October to December 2024, FITT hosted delegations from Japan, Austria, South Africa, and Korea.

A. Japanese Delegation Visit – 19th Oct'2024

B. Austrian Delegation Visit – 20th Nov'2024



C. Southern African Delegation Visit – 18th Dec 2024

D. Korean Delegation Visit – 19th Dec 2024

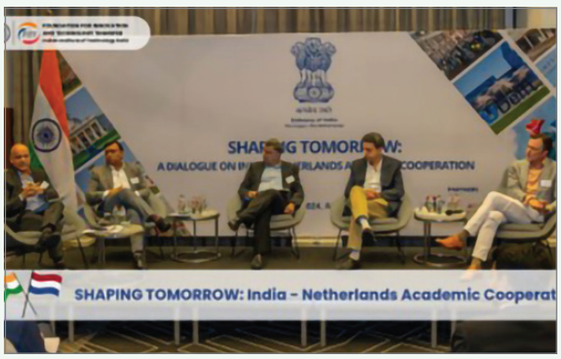
List of Current Corporate Partners

National Center for Assistive Health Technology	Novo Nordisk Foundation India
CoE Process Safety & Risk Management - Nayara Energy	DS Centre for Entrepreneurship
INRM Consultants Pvt Ltd	Foundation for Innovation and Social Entrepreneurship
DV2JS Innovation LLP	BotLab Dynamics Pvt Ltd
Aftershoot Pvt Ltd	Tata Consultancy Services
Mitsui Kinzoku Components India Pvt Ltd	

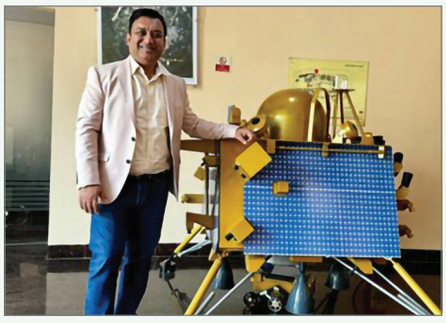
FITT: A key player in the ecosystem

PANIIT Global Conference 2024 (4th – 5th October 2024)

Dr. Nikhil Agarwal represented FITT-IIT Delhi at the PANIIT Global Conference 2024 in the Netherlands on October 4-5. The event featured discussions on academic cooperation, the India-Netherlands business corridor, the role of industry in driving innovation as well as cross-border startup incubation and funding support.



Exploring Potential Collaborations between ISRO and IIT Delhi



Dr. Nikhil Agarwal, MD, FITT, visited ISRO's New Delhi office and discussed opportunities for collaboration on advanced space technologies.

Strategic Meeting Between IIT Delhi, IIT Madras, and IIT Bombay (Oct 2024)

Dr. Nikhil Agarwal, MD, FITT, Prof. Mahesh Panchagnula, IIT Madras and Mr. Shaji Varghese, CEO, SINE IIT Bombay, explored initiatives aimed at positioning India as a global innovation leader. The discussion emphasized driving innovation, boosting manufacturing capabilities, and expanding India's reach in global markets.

Collaboration with the Department of Space (Nov 2024)

Dr. Nikhil Agarwal, MD, FITT, held discussions with the Department of Space and explored partnership opportunities with IIT Delhi to establish a space accelerator program, fostering advancements in space technology and promoting entrepreneurial growth.

World Business Angels Investment Forum (WBAF) (19-20 November 2024)

Dr. Nikhil Agarwal, MD, FITT, was invited as a speaker at the World Business Angels Investment Forum (WBAF) 2024 held in Bahrain. The forum focused on promoting global entrepreneurship, where Dr. Agarwal shared insights on India's thriving innovation landscape.

Interaction with the Hon'ble Vice President of India (22nd December 2024)

Dr. Nikhil Agarwal, MD, FITT and Trustee of the Kisan Trust, participated in an interaction with the Hon'ble Vice President of India for the launch of the first-ever Chaudhary Charan Singh Awards in 2024, aimed at recognizing outstanding contributions in various fields.

Noida Startup Group (NSG) (December 2024)

Dr. Nikhil Agarwal, MD, FITT is actively involved in the Noida Startup Group (NSG), a vibrant platform for high-growth founders, where entrepreneurs can share ideas, support each other, and work towards making Noida a prominent startup hub.

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