



Institution's Innovation Council (IIC) Indian Institute of Technology Hyderabad (IITH)

ANNUAL REPORT

(SEP 01, 2023, TO AUG 31, 2024)

2023-24



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)



भारतीय नो००केंटिक विज्ञन संस्था० प्रौदराखाद
भारतीय प्रौद्योगिकी संरथान हैदराबाद
Indian Institute of Technology Hyderabad



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About IIC Institute

Vision / Mission of IIC established at the Institute

- Identification of the best ideas and providing them with a ‘womb’ to incubate eventually to transform into a Startup or entrepreneur endeavor.
- Soliciting an entrepreneur through the application of knowledge and expertise, academic as well as industrial.
- Empowering an idea with all important ingredients and resources aiding its conversion into a successful product or service.
- Helping entrepreneurs to grow holistically with business acumen.
- Bring socio-economic change in the country by finding innovative solutions to daily met problems.
- Meet once a quarter to formalize the discussion and keep action points for activities in the coming quarter and regularly update it.

The journey of IIC established at the Institute

Institute Innovation Council at IIT Hyderabad was initially established in February 2018 with Innovation, IPR, and Entrepreneurship as its 3 pillars. Later, in February 2021, the council was reconstituted with 22 Representatives, as per the IIC norms, with an appropriate framework designed for its Objectives, Functions, Roles, and Responsibilities. Since then, all the innovation and entrepreneurship-related activities of IIC have been strictly implemented by the Council. The IIC meetings were conducted timely with all the representatives of the Council. IIC at IIT Hyderabad has 32 active members to inculcate the culture of Innovation & Entrepreneurship on campus.

Institute Innovation Council at IIT Hyderabad has a robust Innovation and Entrepreneurship culture with 16 IIC Calendar Activities, 18 Celebrations, 7 MIC-driven Activities, and 25+ Self-driven Activities. IIC at IITH enjoyed Top rating of 4-star for two consecutive years, and hopefully, it will continue to lead in the field. Innovation and Entrepreneurship Quotient reflects with 3rd Rank in NIRF (Innovation) 2023, 240+ Patents, 130+ Startups, 1,100+ PhD Graduates and 2,200+ R & D Projects.

Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units, etc

Startup / Alumni Entrepreneur: Prathyusha Thammineni, President, IITH Alumni Association

The expert from nearby Industry / Industry association/ Ecosystem Enabler: Mr Vinay Chilakapati (CEO, Innomet Advanced Materials Pvt. Ltd.)

FI/ Bank Investor/ Angel Investor/ VC: Mr Reehan Shaik, Bank Manager, Canara Bank, IITH Branch, Ex-officio

Incubation Centre: Dr Siva Rama Krishna Vanjari, Faculty-in-Charge, FabCI

Patent Expert: Mr Anna Eswara Reddy, Patent Analyst

Brief mention of key functionaries at the IIC Institute

- **President:** Prof B S Murty, Director, IITH
- **Vice President:** Prof Chandra Shekhar Sharma, Dean (SRC), IITH
- **Convenor:** Dr Jayshree Patnaik, Assistant Professor, Department of EM, IITH
- **Innovation Activity Coordinator:** Prof Surya Kumar S, Dean (ITS), IITH
- **Startup Activity Coordinator:** Dr Aravind Rengan, FIC-Itic, IITH
- **Internship Coordinator:** Dr Abhinav Kumar, FIC-Office of Career Services, IITH
- **IPR coordinator:** Dr Pradeep Kumar Yemula, FIC-IP Cell, IITH
- **Ranking coordinator:** Dr Sai Santosh Kumar Raavi, Ranking Committee, IITH
- **Incubation Center Representative:** Prof Siva Rama Krishna, Vanjari, FIC-FabCI, IITH
- **Public Relations Coordinator:** Dr Shiva Ji FIC-PR, IITH
- **Innovation Ambassador:** Prof Deepak John Mathew, Head, Dept of Design, IITH
- **Innovation Ambassador:** Dr Mudrika Khandelwal, Associate Professor, Dept of MSME,
- **Innovation Ambassador:** Dr Sandipan Ray, Assistant Professor, Dept of Biotechnology
- **Innovation Ambassador:** Dr Sayak Banerjee, Assistant Professor, Dept of MAE
- **Innovation Ambassador:** Dr Suhanya Duraiswamy, Assistant Professor, Chemical Engg
- **General Member:** Prof Mohan Sangeneni, Advisor-Innovation & Translational Research
- **General Member:** Dr Prasad Onkar, FIC – Unnat Bharat Abhiyan (UBA), IITH
- **General Member:** Prof Satish Regonda, Chair -Rural Development Centre, IITH
- **General Member:** Prof B Venkatesham, FIC - TTO, IITH
- **General Member:** Dr Prakhar Gupta, FIC - Students Affairs, IITH
- **General Member:** Dr Nakul Parameswar, HoD, Dept of EM, IITH
- **Patent Expert:** Mr Anna Eswara Reddy, IPFC, Patent Analyst, IITH
- **Startup /Alumni Entrepreneur:** Ms Prathyusha T, President, IITH Alumni Association
- **Expert from nearby Industry:** Mr Vinay Chilakapati (CEO, Innomet Advanced Materials Pvt. Ltd)
- **FI/ Bank Investor/ Angel Investor/ VC:** Mr Reehan Shaik, Bank Manager, Canara Bank, IITH Branch, Ex-officio
- **IIC Portal Coordinator:** Ms Meena Kumari, Public Relations Officer, IITH

Student Representation

- **Startup Activity Coordinator:** Aditya Gupta, Head, E Cell, IITH
- **Innovation Activity Coordinator:** Armaan, Science & Technology Secretary, Student Gymkhana, IITH
- **Internship Coordinator:** Dr Abhinav Kumar, Faculty-in-Charge, Office of Career Services
- **IPR Coordinator:** Arsh Arora, Head, Tinkerer's Lab, IITH
- **Social Media Coordinator:** Nenavath Arjun, Media Secretary, Student Gymkhana, IITH

Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC Institution

- Total No. of IIC Members: 32
- Total No. of IAs: 8
- Total No. of faculty Mentors from Portal: 21
- Pre-Incubation Units: 10
- Incubation Units: 4
- IP Facilitation Unit: 1

Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind, and Student bodies/clubs engaged in the promotion of Innovation and Entrepreneurship on the campus.

Incubators

i-TIC foundation:

i-TIC Foundation is the Technology Business Incubator (TBI) at IIT Hyderabad. The focus is on creating a supportive and nourishing environment for entrepreneurs. The thrust areas at the Incubator are Artificial Intelligence, Aerospace, Telecommunication, Digital Manufacturing, Chip Design, Sensors, IT, Bio-Medical, Automotive, Advanced Materials, Energy, Flexible Electronics, and Other Emerging Technologies. A few companies that are incubated, related to ICT are SKIoT (IoT), Acausal (Robotics), SenseHealth (Bio-Medical), Osure (Healthcare), and Skelregen (Bio Material). i-TIC provides the necessary facilities to these startup companies, along with guidance and mentoring by the faculty members of IITH and experts from the industry, to develop a robust ecosystem for entrepreneurship.

Center for Healthcare Entrepreneurship:

The Foundation for the Center for Healthcare Entrepreneurship is sponsored by two IIT Bombay alumni and is focused on making universal healthcare a reality. The CfHE program is dedicated to achieving universal healthcare by igniting the spark of entrepreneurship in our youth and providing them with focused training and top-notch mentorship. The Center's objective is to catalyze healthcare innovation to bring about affordable solutions to address the healthcare needs of India. The Center hopes to foster entrepreneurs to deliver a pipeline of cost-efficient, increasingly 'commercialized'. NemoCare, BeAble, KvayatMedical, Heamac healthcare, Aerobiosys, VaccineOnWheels.com, and chemioptic Healthcare have incubated to start up their dream idea. They become incubated companies at CfHE and continue to attract support both in terms of mentorship, access to funding opportunities, and physical space in our state-of-the-art IIT Hyderabad location dedicated to the CfHE Incubator.

Fabless Chip Design Incubator:

The Fabless Chip Design Incubator (FabCI) is a flagship program being executed with the support of the Ministry of Electronics and Information Technology (MEITY) and focuses on creating an ecosystem wherein these primary activities get executed for any startup in the area of chip design.

The primary motivation for this unique incubator program is to provide a one-stop solution for start-ups focusing on the area of chip design. We want to help incubate multiple "Make-in- India' chip design companies. We aspire to build an ecosystem wherein the incubates are not only provided with the relevant infrastructure hardware and software but also are handheld through the path of success with the help of mentors who are pioneers in this field. The grand vision is to leverage the design expertise that exists in India to create Indian IP and to make a mark in chip design internationally.

TiHAN

Technology Innovation Hub on Autonomous Navigation (TiHAN) is a multi-departmental initiative, including researchers from Electrical Engineering, Computer Science & Engineering, Mechanical, and Aerospace Engineering, Civil Engineering, Mathematics, Design, and Entrepreneurship at IITH with collaboration and support from reputed institutions and industry.

TiHAN is recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research. The vision of this hub is to become a global destination for next-generation smart mobility technologies that utilize reliable and efficient autonomous navigation and data acquisition systems in the next five years. The mission of this hub is to accelerate the adoption of autonomous navigation and next-generation smart mobility technologies for use in intelligent transportation and agricultural applications, not only in India but also in a global context.

Technology Research Park

"IITH Technology Research Park" is an independent Section 8 Company founded, promoted, and hosted by IIT Hyderabad, governed by a Board of distinguished academicians, faculty of IIT Hyderabad, and industry professionals to inoculate the idea of innovative Entrepreneurship in collaboration with Research Development. IIT Hyd Research Park is a self-reliant team endorsed by IIT Hyd and its alumni.

The IIT Hyderabad Research Park promotes the betterment of research and development by the institute through friendship with industry, helping in the advancement of modern ventures, and build-up economic development. The IIT Hyd Research Park assists organizations with a research target to set up an infrastructure in the park and take advantage of the expertise available at IIT Hyd.

Student Clubs

Scitech Council:

A Science Technology club to provide a platform for technocrats to explore their ideas and bring in new innovations Clubs under Scitech Council. The Sci-Tech Council is headed by the Science and Technology Secretary. It encompasses nine societies:

AeroClub (Aeronautics & Drone Design Club),

Cepheid (Astronomy Club),

Elektronica (Electronics & Signal Processing Club),

Kludge (Information Security & Networking Club),

Infero (Programming & Algorithms Club),

Lambda (Development Club),

Prakriti (Nature Club),

Robotix (Robotics & Automation Club).

Torque (Automobile Engineering & Design Club)

which covers the diverse nature of science and technology. Various events are organised from time to time, starting from the orientation of all these clubs.

The Scitech Council has participated in the following competitions:

1. InterIIT TechMeets

Participated in contingents every year and last year there were a team of 70 that actually went to IITM offline where as almost a 100 people contributed online and behind the scenes as well.

2. EYRC IITB

Last year they had 3 teams of size 4 each and the year before that had 2 teams of size 4 each who participated in Eyantra hosted by IITB.

One of the IITH teams won the competition and were offered an internship in the summer of 2023 in IITB as well.

3. ICPC

Every year about 15 teams participate in ICPC.

In 2023, 2 teams went to 4 regionals in total.

In 2022, 1 team made it to Asia-West Continent Finals as well.

Entrepreneurship Cell:

The Workshop Series hosted by E-Cell IITH provides an environment for students from various colleges to network, and learn together about the latest developments in different fields of technology.

Megathon is one of the biggest student entrepreneurship hackathons in Hyderabad co-hosted by E-Cell IITH and IIITH which aims to provide a common platform for student entrepreneurs to network, work on innovative solutions and build startups.

Highlight Achievements (Narrative/Graphical/tabular representation)

No. of IPs generated, published, and granted:

- No. of Copyrights Filed: 14 Registered: 13
- No. of Industrial Designs Filed: 8 Registered: 11
- No. of Patents Filed : 90 Published : 84 Granted: 49
- No. of Technology Transfer and Commercialisation Happened: 2
- Number of Patents Supported: IPFC = 84
- IP Funding = 40 Lakhs (Approximately).

No. of student's & faculty ideas generated:

Student: 110

Faculty: 1526

No. of Student & Faculty Start-ups/Ventures established:

Number of Startup ideas from BUILD Project: 75

Number of Students Enrolled in CIP

PG: 168

PhD: 74

Amount spent on promotion and awareness generation on Innovation Entrepreneurship on the campus: Rs 75 Lakhs

Amount grant or fund supported to student & Faculty lead Innovations, start-ups, and IPR:
Rs. 75,00,000/- (It may be noted that while the overall Innovation & Entrepreneurship ecosystem is synchronized through the IIC of the Institute, from an accounting and book-keeping perspective, the Startup grants are supported through the DST approved society registered as I-TIC Foundation IIT Hyderabad.)

Number and Different types of I&E and IPR activities Conducted:

I&E Non Acad Courses AY 23-24:

Title of the Short-term Certificate Program/MDP/EDP/FDP	Type of Certificate Program	Offering Department/ Centre/ Unit Name	Total Numbers of Beneficiaries/Participants
Workshop on Artificial Intelligence & Information Security in IOT and Smart Vehicles	Management Development Program	Dept. of EM, IITH through CCE	15
Workshop on Embracing ESG through Responsible Leadership	Short-term Certificate Program	Dept. of EM, IITH through CCE	20
Certificate course on Advanced DNN innovation (ADI)	Short-term Certificate Program	TiHAN, IITH	29

**I&E Acad Courses AY 23-24 offered by the department of
Entrepreneurship and Management:**

Title of the Credit Course	Credit
Operational Entrepreneurship	3
Strategic Management	3
Industry Lecture	1
Business Finance	3
Advanced Topics in Entrepreneurship Research	3
Advanced Topics in Logistics and Supply Chain Management	3
International Business	1
Responsible Leadership and its Role in Business	1
Introduction to Entrepreneurship	1
HR and Leadership	1
Marketing Research	1
Start-up Financing	1
Entrepreneurial Risk Management	1
Introduction to Intellectual Property Rights	1
Foundations of Design Thinking for Entrepreneurship	1
Advanced Theories and Models in Consumer Behavior	3
Advanced Topics in Strategy and Competition	3
Accounting and Finance for Entrepreneurs	3
Foundations of Techno-Entrepreneurship	3
Advanced Topics in Strategy and Competition	3
Advanced Topics in Logistics and Supply Chain Management	3
Entrepreneurial Marketing	3
Advanced Theories and Models in Consumer Behavior	3
Game Theory for Startups	1
Finance for Engineers	1
Innovation Management	1
Economics for Technocrats	1
Decision Modelling	1
Competitive Strategy for Startup	1
Introduction to Sales and Marketing	1

Highlight various events or collaborations engaged in the promotion of Innovation and Entrepreneurship on the campus.

IInvenTiv 2024

The Indian Institute of Technology Hyderabad (IITH) hosted the second edition of the Ministry of Education's flagship event, IInvenTiv 2024, on the 19th and 20th of January 2024. Under the guidance of Hon'ble Education Minister of India, Shri Dharmendra Pradhan, the 2nd edition of this mega Research and Development (R&D) fair promised to be a celebration of ingenuity and technological advancements.

IInvenTiv-2024 is a platform to highlight the holistic impact of the research and innovation carried out by the top Higher Education Institutes in our country. It seeks collaborative avenues among state universities, institutes, and industry to enhance the development and reach of innovations at the grassroots level. This year, the event focused on five pivotal domains, reflecting the diverse landscape of innovation and also in line with the thrust areas for Atmanirbhar and Viksit Bharat. These include:

- Affordable Healthcare
- Agriculture & Food Processing
- Sustainable Technologies, including Climate change
- E-mobility, Clean Energy
- Defence and Space
- Industry 4.0



Inauguration ceremony of IInvenTiv 2024

IInvenTiv-2024 presented a diverse array of innovative projects, showcasing a total of 120 groundbreaking initiatives from 53 esteemed institutes. The featured project spanned an impressive range, encompassing advancements from Orthopaedic Implants to the Development of a Lean Burn micro-gas turbine engine and from 3D-printed Sustainable Building & Structure to the creation of an Indigenous Anti-Hail Gun, among others.

These remarkable innovations stem from a broad and collaborative spectrum of participating institutions, including prestigious names such as IITs, NITs, IISERs, IIITs, IISc Bangalore, and the top 50 NIRF-ranked engineering institutions in the country.

Among the industries, top stakeholders, including Cyient, Honeywell, Applied Materials, Bharat Forge Ltd, ICICI, Synergy, Sun Pharma, Suzuki Motors, Bosch, Schneider Electric, and NTPC, among others, were present at the IInvenTiv-2024 inaugural event.



Exhibiting the innovative projects at IIInvenTiv 2024

IIInvenTiv-2024 emerges as a beacon of innovation, uniting top institutes in a collaborative showcase of transformative projects across diverse domains. The event's impact extends beyond academia, drawing participation from leading industries and stakeholders, affirming its status as a pivotal platform aligning with the nation's vision for self-reliance and development.

The concluding ceremony of IIInvenTiv-2024 marked a significant milestone with the formalization of a **Technology Transfer agreement between IIT Hyderabad and E-Spin Nanotech**, aiming to pilot the commercial application of Cellulose-based Nanofiber Feminine Hygiene Products. This patented technology, recognized in the United Kingdom, India, and China, effectively addresses two critical challenges: biodegradation and health hazards. By substituting the non-biodegradable super absorbent polymer layer with eco-friendly nanofibers in conventional feminine hygiene products, the technology stands poised for commercialization.

DIA-CoE

The journey of DRDO collaboration with IITH started in 2020 with a DRDO Research cell which has been transformed into a DRDO Industry Academia Centre of Excellence (DIA-CoE). It became operational on 01-04-2023 at the 3rd Floor, TRP building, IITH. In addition to 11 legacy projects, new projects were identified for various verticals in 2023-2024. One legacy project, Large Area Additive Manufacturing (LAAM), for realizing large-sized engines under AMP vertical, was inaugurated on 16th April 2023.

Sanction of Six New Projects to the tune of 45 Crores under Additive Manufacturing vertical is obtained.

Further new projects were identified under UHTM, Nano-Ornithopter and Seeker & Homing technologies vertical. TEC & RAB were conducted for 5 UHTM, 4 Nano-Ornithopter, and 3 Seeker & Homing Technologies proposals. Regular interactions and technology review meetings were held to identify new research areas under AI, Adaptive imaging and Image processing. Space systems for DRDO Labs.



Among legacy projects, 1 project is successful & closed, 3 projects have shown progressive results and are near closure, and 7 projects are under progress. 20 Papers were published, and 2 patents were filed.

"Future Inventors Fair 2024"

IIT Hyderabad inspired the next generation of innovators with the second edition of the "Future Inventors Fair 2024." The event brought together some of the brightest young minds from Class 8 and 9 across various schools in Telangana. Aiming to cultivate a spirit of innovation and creativity, the event provided a platform for these young innovators to showcase their projects and ideas on a prestigious stage. The most outstanding projects will be recognized and rewarded. The Director of IIT Hyderabad, a leading figure in academic and research excellence, will personally present the awards. The top three projects will receive cash prizes: Rs 20,000 for the first prize, Rs 10,000 for the second prize, and Rs 5,000 for the third prize. These awards not only serve as a recognition of the student's hard work and ingenuity but also as an encouragement for them to continue pursuing their passion for science and technology.

The Future Inventors Fair 2024 is more than just a competition; it is a celebration of creativity, innovation, and the endless possibilities of young minds. By hosting this event, IIT Hyderabad reaffirms its commitment to nurturing talent from a young age and promoting a culture of curiosity and exploration in science and technology.



Urban Flood Information System (UFIS) for the city of Hyderabad

Researchers at the Indian Institute of Technology Hyderabad (IITH) are embarking on an innovative journey to address the longstanding challenge of urban flooding in Hyderabad. The team, led by Dr Satish Kumar Regonda, is developing an Urban Flood Information System (UFIS) to minimize the effects of floods in the city of Hyderabad. The focus in setting up UFIS is the collection of flood-relevant data, understanding of the collected data, employing modeling techniques to simulate as well as forecast rainfall amounts, flood depths and its extent, and development of products as per the needs of policymakers and stakeholders. The absence of key input data, for example, rainfall at finer intervals, flood flow measurements, etc., hinders flood modelling efforts. Therefore, one of the preliminary tasks for setting a reliable UFIS is to have a medium through which flood-related data can be collected. In this regard, SnapFlood TM was envisioned to provide a platform for the citizens to provide flood-relevant information data, which may become an integral part of the UFIS data in the future. Efforts are also directed to social media platforms such as Twitter to yield flood information. In fact, one of the first works for the city of Hyderabad, which used the Twitter platform to identify flood hotspots, was presented at the American Geophysical Union (AGU) conference in the year 2021.



Automatic Weather Stations Installed at IIT Hyderabad Campus

Research scholars from Dr Satish's research group, Rainfall-runoff Analysis modeling and Forecasting Tools (RAFT) have worked in multiple dimensions to address the aspect of urban floods in Hyderabad. Mohammed Azharuddin focused on climatological aspects of rainfall and understanding of weather patterns that bring rain to Hyderabad. Ponukumati Padmini examined alternate rainfall products for their utility in flood-relevant applications for the city of Hyderabad. Many works are in the pipeline, including weather, hydrology and hydraulic modeling at an urban scale, as well as real-time flood information dissemination through social media platforms. Further, as the UFIS project gains momentum, efforts are extended to developing different components of the UFIS. Thus, the research efforts are dedicated to improving the city's resilience to floods and ensuring the safety and well-being of its residents. This research exemplifies the institution's commitment to innovation and societal impact.

List of any breakthrough Innovations / Technology Developed

India's first Pedestrian Bridge using Indigenous 3D Printing Technology

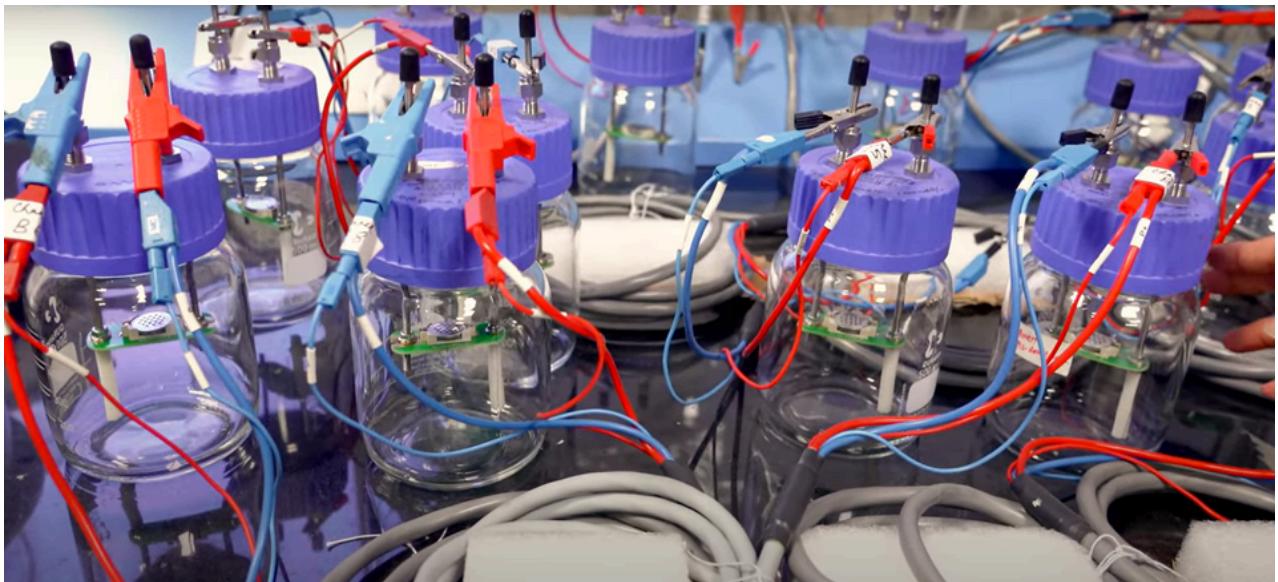
A 3D printed bridge has been deployed on the campus of IIT Hyderabad (IITH). The concept and design were developed and evaluated by Prof. K.V.L. Subramaniam and his research group, Department of Civil Engineering, IIT Hyderabad. The bridge was off-site printed by Simpliforge Creations, a startup company specializing in providing 3D concrete printing solutions. Designed as a pedestrian bridge, a full-scale 7.50 m bridge was field deployed after load testing a smaller prototype bridge. The bridge has been designed broadly following form optimization to minimize the use of concrete and reinforcement. The concept of the bridge was developed broadly following 'Material follows Force' and the reinforcement/shape have been determined from stress analysis. Several advances in material processing, and design methodology are highlighted in the bridge design. The material developed by Simpliforge Creations was tested and validated for the required rheological performance. 3D concrete printing is an emerging technology that offers the potential for rapid and efficient construction. The technology for digital construction promises added flexibility in printed forms and efficient structural systems. The prototype bridge serves as a technology demonstrator for 3D concrete printing in developing light-weight, rapidly deployable bridges and structures that are form optimized for specific applications.



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Metal-Co₂ Battery: A Step Towards Green Earth & Terraforming Mars by Carbon Lab

Imagine a world where energy storage is not only efficient but also environmentally friendly. Prof Chandra Shekhar Sharma and his team from Carbon Lab, IIT Hyderabad are taking one step closer to a green Earth and even paving the way for terraforming Mars! It is a Swaranjayanti Fellowship aided Research. This innovation could revolutionize energy storage and contribute to a sustainable future for our planet and beyond.



Prof Suriya Prakash & Mr Ganapati M Patil, PhD Scholar, Department of Civil Engineering, IITH presented the Use of GFRP Rebar and Discrete Fiber-Based Reinforcing System in Concrete Constructions for Improved Durability

A recent report from the International Zinc Association (IZA) reveals that India incurs a loss of 5-7% of its GDP yearly due to steel corrosion. India, with its vast 7,500 km coastline and big metropolitan centres in the coastal regions, faces substantial hurdles in protecting steel reinforcement of concrete buildings and bridges from corrosion. Glass Fiber-Reinforced Polymer (GFRP) rebar is increasingly being used as an alternative to steel reinforcement because it doesn't corrode, is lightweight and is non-conductive. These characteristics make GFRP rebars durable in corrosive environments, easy to transport and install, and beneficial for applications in electrical environments such as MRI Rooms, Rail Structures and Foundations of Transformers and Thyristors. Promoting sustainable infrastructure is essential as part of the 17 Sustainable Development Goals (SDGs) of the United Nations (UN). One such solution is using GFRP rebars in concrete construction, which can result in reduced maintenance, extended lifespan, and lower replacement costs.



The optimum design of concrete elements with GFRP rebars is essential for its effective utilization and for improving the safety of concrete members under different loading scenarios. Prof S Suriya Prakash's CASTCON Lab at the IITH has developed hybrid GFRP bars and discrete fibre-based reinforcing solutions to improve the performance of concrete members under different loading conditions. Discrete fibre addition improves the capacity and ductility of GFRP-reinforced concrete elements. Understanding the effect of fibres in reducing the brittleness of GFRP-reinforced concrete elements is essential to developing cost-effective solutions. The present research focuses on understanding the effectiveness of different types of macro fibres in concrete with varying dosages.

TiHAN, IIT Hyderabad wheels out driverless ferries & pedals way towards on-call e-bike.



Highlight a few best IIC Faculty/Student members and their achievements/Rewards for their innovations at different forum

- Dr Kiran Kumar Kuchi, Professor Department of Electrical Engineering, has been honored with the prestigious national award, the "Pandit Deendayal Upadhyaya Telecom Excellence Award 2024." This award is granted based on outstanding achievements and significant contributions to the telecommunications sector. This award underscores the national importance of their work and their impact on advancing telecommunications technology in India. His recognition among this elite group highlights his exceptional expertise and dedicated contributions in this field. His contributions to 5G and 6G wireless communication Technology are remarkable.
- Dr Nagarajan Ganapathy, Department of Biomedical Engineering and Dr.Ganesh Sambhaji Ghalme, Department of Artificial Intelligence, received a Bill & Melinda Gate Foundation Grant for the proposal titled "Sankalp": Strengthening Program Implementation and Monitoring to Achieve Single-digit Neonatal Mortality", funded in Collaboration with AIIMS Bibinagar as PIs. The total budget for the funding is 750,000 USD (Approximately 6.2 Crore).
- Prof Narasimha Mangadoddy received the prestigious National Geoscience Award - 2023 for his contributions to Mineral Benefaction and Sustainable Mineral Development.

- Dr Shiva Ji, Department of Design, has been chosen by the Japan Science and Technology Agency (JST) to join an invitation program carried out under the framework of the Japan-Asia Youth Exchange Program in Science (Sakura Science Exchange Program). The focus is on International Research-Educational Program of Historical Environmental Design to develop experts who are involved in areas such as the conservation of architectural heritage, historical landscape and natural environment in the context of Asian cities.
- Dr Shuhita Bhattacharjee, Department of Liberal Arts, has received the prestigious British UKRI Arts and Humanities Research Council (AHRC) along with her British collaborator(Kingston University (Eadaoin Agnew). This grant consists of GBP45,000 for the establishment of global nineteenth-century research networks over two years. She will be spearheading the process of setting up a virtual Nineteenth-Century Research Network, South Asia Chapter, from IIT Hyderabad. This will be inaugurated through a major hybrid international conference at IITH in 2025. This will establish IIT Hyderabad and the Indian scholarly community as a crucial player on the global map of Nineteenth-Century and Postcolonial Studies Research.
- CfHE, a Center for Health Care Entrepreneurship, has been honoured with the prestigious "Best Bioincubation Centre Exhibit" award at the Global Bio-India 2023 event held at Pragati Maidan, New Delhi. Out of the 75 Bio-NEST participants, CfHE has been recognized as the Best Bio-Incubation Centre for its contributions to healthcare innovation, entrepreneurship and incubation.
- Mr Narnepati Krishna Chaitanya(ce19resch11001), Ms Jesna Fathima(ce20resch11008), Ms Debasmita Behera (id21resch11016) & Mr Ayushman Bhattacharya, working under the supervision of Dr Pritha Chatterjee, Department of Civil Engineering, have received the Mitacs Globalink Research Award. This award will give provision to do research in Canada for a period of six months.
- Mr Sandal Kotawala, the first Batch of MTech Ophthalmic Engineering student's (op22mtech14002) start-up "Alfaleus" has won the 12th CavinKare-MMA ChinniKrishnan Award 2023 for the product Intelligent Vision Analyser (iVA). This is a prestigious award offered to the most innovative products across the country, judged at multiple rounds by distinguished members of the Madras Management Association. The award includes a Cash prize of Rs. 1 lac.
- Mr D Sreenivasan, an ICME student, under the guidance of Dr Ashok Kamraj, Department of MSME, has won the World Championship title in the 18th version of the Steel Challenge organized by the World Steel Association, where competitors from academia and industries across the world were tasked with simulating the most cost-effective production of wire rods —a crucial component in steel cords for car tires—by leveraging Steel University's electric arc furnace and secondary steelmaking simulators.
- Mr Vineet Gairola, working under the supervision of Dr Shubha Ranganathan, has received the Division 36 Social Justice Task Force Research Grant from the American Psychological Association, the top-most psychology association in the world. This award has been given to his PhD research proposal, rating its impact, scholarly merit, and scientific rigour to be "excellent" with a "high capacity for success/excellence."

Alfaleus Technology, Making Eyecare Accessible



Alfaleus Tech, a start-up of IIT-H MTech student Mr Sandal Kotawala, based at IIT Hyderabad Research Park, has won the prestigious ChinniKrishnan award by CavinKare and Madras Management Association (MMA) for its innovation Intelligent Vision Analyser (iVA). Award being received by its founder Mr Sandal Kotawala, and Technical Director - Dr P ArulmozhiVarman, at a grand event at IIT Madras Research Park, Chennai, Tamil Nadu, India.

ChinniKrishnan Award is an annual award to pay tribute to entrepreneurs who exemplify the visionary, innovative, and ideation-driven qualities embodied by the late Shri. R. Chinnikrishnan, the father of C.K Ranganathan, Chairman & Managing Director of CavinKare Pvt Ltd. These awards acknowledge pioneering entrepreneurs based on the originality of their innovations, their positive impact on society, and their potential for scalability and sustainability. This is the 12th edition of the ChinniKrishnan Award, for which more than 200 applications were received from Pan India. 3 winners are chosen after a month-long evaluation by an esteemed jury.

Alfaleus Tech was chosen among the top 3 winners, and a Rupees 1 lac cash prize along with mentoring support was presented by Mr Suresh Narayanan, Chairman & Managing Director, Nestle India Limited and Mr C K Ranganathan, the Chairman & Managing Director of CavinKare Pvt Ltd.

Alfaleus has been supported by Aravind Eye Hospital, Pondicherry, from its very inception in terms of idea validation, prototyping, clinical feedback and validation. It has developed a virtual reality (VR) based portable visual field perimeter, called Intelligent Vision Analyser that can be used for conducting visual field testing at one-tenth the cost of conventional equipment. Moreover, the solution is portable and easy to use, can be taken to the field for eye camps and is more inclusive for immobile patients.

'Alfaleus' is also being selected for the 2024 MedTech Innovator APAC accelerator.

MedTech Innovator (MTI) is the world's largest life sciences startup accelerator based in Los Angeles. Notably, only 20 start-ups have been selected from the Asia Pacific Region and only 4 from our country. This accelerator program helps startups to scale up with support and mentorship from global giants like J&J, Siemens and others.



Participation of IIC-institute in various programs of Central and State Govt. Highlighting specially for the schemes or programs

- ARIIA/ NIRF (Innovation) 2023 - Ranked 3rd
- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation
- Policy formulated & circulated in the institute.
- Smart India Hackathon/ Innovation Challenges in the country: Yes

Details of social media & Connections of IIC institute

S. No	Social Media Site	No. of Followers
1	<u>X</u>	47,300
2	<u>Facebook</u>	15000
3	<u>Linkedin</u>	67,766
4	<u>Instagram</u>	9155
5	<u>Youtube</u>	7830

Institute Collaborations

SNO	Company/Award Name	Area of Collaboration
1	AMD	Fellowship Program
2	Sri K C Narayan Research Excellence Award	Scholarship
3	Sumedha Annapureddy Gold Medal for Innovation Award	Scholarship for outstanding innovation accomplishments
4	Om Vimla for Innovation in Materials for Society	Innovation Excellence Award
5	Astra Microwave Products Limited	Hybrid Classroom
6	Fischer Building Materials Private Limited	CSR Research Project
7	Umicore India Private Limited	Scholarship to EWRM MTech Student
8	West Way Reality	CSR Research Project
9	Infovision Lab India Private Limited	AR/VR lab
10	Loginsoft Private Limited	Digital connectivity of the rural classrooms
11	Innomet Advance Materials Private Limited	Rural Development
12	Intel	AI/ML enabled in network security and power performance
13	Mazagon Dock Shipbuilders Limited	Research Project
14	Nordic Excellence Award in Semiconductor Research	Excellence award in wireless and semiconductor research
15	Mc Kinley Rice	Placements/Internship
16	Regal Rexnord	Testing
17	Signode India	Research Project
18	ZF India	CSR for 2 research projects
19	BMS	Hybrid Classroom
20	Qualcomm	QIDK Kit
21	MA Consulting	Structural Engineering Lab setup
22	NCC	UHPFRC Solutions for Bridges & Other Infrastructure Applications
23	Rocktech Infra and Mining Private Limited	Rural and Skill Development Centres
24	Sai Deepa Rock Drills Private Limited	Rural and Skill Development Centres

Institute Collaborations

Prof B S Murty, the director of IITH, visited the US to various universities/industries/incubation centres, and MOUs were signed for International collaborations. In addition to this, in the years 2023-24, IITH has a large number of industry-sponsored projects (especially the ones from AMAT, Medtronics, LTTS, etc. Details of a few MoUs are listed below:

AMAT - Applied Materials Private Limited is a Manufacturing Company that supplies equipment, services and software for the manufacture of semiconductor chips for electronics, flat panel displays for computers, smartphones, televisions and solar products. A NDA was signed on 18th March 2024. As a part of the collaboration, a Crash course on Quantum Technologies and Vacuum Technology has been conducted.

Medtronics:

Director R&D of Medtronics visited IITH twice and had interaction with faculty. An R&D project worth \$60,000 has already been sanctioned to Prof Subhanarayana Rath and Dr Narendra who are regularly monitoring this project. Medtronics has an interest in AI and is ready to offer projects to the AI faculty.

LTTS (Larsen & Toubro Technology Services Limited):

Dr Keshab Panda, former CEO of LTTS, was instrumental in connecting LTTS to IITH. He met the Director and made donations. LTTS sanctioned a project to TiHAN (worth more than a crore of rupees).



iCET - An initiative by the Ministry of Education (MoE), GoI

Indo-US Initiative for Critical Emerging Technologies (iCET) is a collaborative framework established by the United States and India for enhanced cooperation and collaboration in high-technology developing areas. The iCET was announced by our honourable prime minister Shri. Narendra Modi and United States President Mr. Joe Biden in 2022, and was officially launched in 2023. It is led by the National Security Council (NSC) of both countries and enables closer linkages across sectors, departments, agencies, research organizations, academia and industry, which work together to facilitate joint efforts and partnerships.

The MoE formed a task force with Directors of 7 IITs (IIT Bombay, IIT Delhi, IIT Madras, IIT Bhubaneswar, IIT Hyderabad, IIT Ropar, IIT Tirupati), IISc Bangalore and Chairman of AICTE as its members with the Director, IIT Hyderabad Prof. BS Murty as the Co-chair, to take the iCET initiative forward jointly with the Association of American Universities (AAU), the agency identified by the US Government for iCET coordination. Both countries have identified 5 themes or thrust areas for the Indo-US collaborations to focus on possible research collaborations and partnerships. IIT Hyderabad is the leading institute for the themes of semiconductors Advanced Materials & Critical Minerals.

Institute Collaborations

IIT Hyderabad, under the iCET initiative, connects and collaborates with various US universities and industries like Purdue, Penn State University, George Mason University, University of Southern California Viterbi, UIUC, Toronto Metropolitan University etc., based on the identified themes.

The emphasis is given to creating joint modules on research/academics/innovation/skilling & training and sharing its core technologies with each other to provide cutting-edge technologies to the rest of the world. Joint PhD supervision between IITH and global universities has been given a large focus for future collaborations.

Director and Dean- ACR of IIT Hyderabad visited the USA to enhance our collaboration with the US Universities, industries and PAN IIT Alumni. As a part of this initiative, visited Stanford, Caltech, UC Berkeley, UC Davis, UC San Diego, Univ. Southern California, department chairs, Deans and other officials also visited Intel, Ericsson, HP, Ansys, SIMA, Confluent Medical, FalconX and met CTOs and other officials.

iCET team (India) visited NSF (National Science Foundation), AAU(Association of American Universities), Association of American Universities at Washington DC on 09th-11th Jan 2024.



Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

S. No	Member	Testimony
1		<p><i>IIC at IITH has redefined the approach towards motivating IITH fraternity towards innovation and engagement in entrepreneurship activity. This council brought subject experts together under an umbrella and will facilitate the seamless transformation of idea into implementation.</i></p> <p style="text-align: right;">Prof B S Murty, Director, IITH President, IIC-IITH</p>
2		<p><i>IIC has unified the various stakeholders, such as our tech incubator, research park, patent cell, R&D section, and academics under one roof with a single aim of synchronizing all activities related to innovation and research</i></p> <p style="text-align: right;">Prof Chandrashekhar Sharma Dean (SRC)/Vice President</p>
3		<p><i>IIC at IIT Hyderabad provides a fertile ground to foster an Innovation and Entrepreneurship culture</i></p> <p style="text-align: right;">Dr Jayshree Patnaik, Assistant Professor, Dept. of EM, Convenor, IIC-IITH</p>
4		<p><i>Setting the goals and synchronization of various sections of the institute towards that goal is a crucial step in fostering an active innovation ecosystem at an Institute. We look forward to IIC for playing that role.</i></p> <p style="text-align: right;">Prof S Surya Kumar Dean ITS Innovation Activity Coordinator, IIC-IITH</p>
5		<p><i>IIC IITH plays a crucial role in fueling our entire innovation ecosystem. Every stakeholder has made significant contributions to ensure the success of IIC's mission and vision. It is worth noting that IIT Hyderabad has consistently ranked in the top 3 of the national institutional ranking framework (NIRF- Innovation Category), which reflects its strong focus on innovation. I hope IIC IITH continues to achieve even greater success in the future.</i></p> <p style="text-align: right;">Dr Aravind Kumar Rengan Associate Professor, Dean ITS, FIC, iTIC, IITH Startup Activity Coordinator, IIC-IITH</p>
6		<p><i>IIT Hyderabad, has led innovation and entrepreneurship in engineering and technology. IIC is a great step in this direction, bringing multiple stakeholders together to facilitate the process further.</i></p> <p style="text-align: right;">Dr Abhinav Kumar Faculty-in-Charge, Office of Career Services Internship Coordinator, IIC-IITH</p>

S. No	Member	Testimony
7		<i>IIC @ IITH, is the perfect platform to facilitate the vision of IITH of inventing and innovating technologies for humanity.</i>
		Dr Pradeep Kumar Yemula Faculty-in-Charge, IP Cell IPR Coordinator, IIC-IITH
8		<i>As the Faculty In-Charge of Public Relations, I am proud to highlight the dynamic initiatives led by our Institute Innovation Council (IIC) at IIT Hyderabad. The IIC fosters a vibrant ecosystem that nurtures creativity, entrepreneurship, and problem-solving skills for real-life challenges. IIC has played a pivotal role in facilitating our students and faculty collaborate on groundbreaking projects, driving innovation that aligns with national priorities and contributes to societal progress.</i>
		Dr Shiva Ji , Assistant Professor, Dept of Design, FIC, PR, IITH, Public Relations Coordinator
9		<i>IITH, has improved this overall ranking in both QS and NIRF in 2022 largely due to excellent graduate outcomes as well as to the research advances made by the faculty. IIC plays a crucial role in sensitizing the IITH fraternity to innovate and take the lab-scale research to higher technology readiness levels, as is evident by a strong 75% jump in terms of patents filed by faculty during the year 2021 compared to 2020. Also, the BUILD project initiative that enables the students to work on innovative ideas creates a vibrant entrepreneurial and start-up culture in IITH.</i>
		Dr Sai Santosh Kumar Raavi , Dept of Physics, Ranking Coordinator, IIC-IITH
10		<i>IIC is the right step at the right time to provide the impetus required for researchers putting sincere effort in the pursuit of Atmanirbhar Bharat. Collective success is the mantra</i>
		Dr Siva Rama Krishna Vanjari Faculty-in-Charge, FabCI Incubation Centre, IIC-IITH, Incubation Centre Representative
11		<i>Key to innovation is an open mind and willingness to experiment and explore. The one who doesn't fear failure will taste the nectar of success.</i>
		Prof Deepak John Mathew , Head, Department of Design Innovation Ambassador, IIC-IITH
12		<i>A comprehensive and well-rounded outlook is important for sustainable and useful innovation that IIC provides.</i>
		Dr Mudrika Khandelwal Associate Professor, Department of MSME Innovation Ambassador, IIC-IITH

S. No	Member	Testimony
13		<p>IIC at IIT Hyderabad is playing a crucial role in maintaining the imperative cross-talk among research, invention, and innovation. IIC would facilitate cultivating innovative opportunities at IITH for discovery beyond boundaries."</p> <p style="text-align: right;">Dr Sandipan Ray, Assistant Professor, Department of Biotechnology, Innovation Ambassador, IIC-IITH</p>
14		<p>IIC@IITH, will act as a springboard for breakthrough made-in-India technology development and commercialization in Hyderabad in the coming years.</p> <p style="text-align: right;">Dr Sayak Banerjee Department of Mechanical and Aerospace Eng Innovation Ambassador, IIC-IITH</p>
15		<p>Knowledge and creativity give birth to a fledgling called an idea which needs determination and drives to take flight into an innovative venture.</p> <p style="text-align: right;">Dr Suhanya Duraiswamy Department of Chemical Engineering Innovation Ambassador, IIC-IITH</p>
16		<p>IIC@IITH has been successful in providing an ideal Eco system in its campus to mentor enthusiastic entrepreneurs among the faculty and students of IIT Hyderabad as well as outsiders through its various innovation and entrepreneurship activities such as interactions with Entrepreneurs, investors, Professionals and alumni with like minded mindset thereby creating a huge mentor pool . The advantage of having access to a large number of Professors in Practise, Distinguished and Adjunct Professors from within India as well as abroad is a great strength to this activity and results are clearly visible</p> <p style="text-align: right;">Prof Mohan Sangeneni, Advisor-Innovation & Translational Research General Member</p>
17		<p>The Institute Innovation Council (IIC) at IIT Hyderabad, with its wide range of members from different disciplines and its awareness programs on innovation, acts as a platform for innovation to translate something real and beneficial so that one will have cherishable moments that they worked on their idea.".</p> <p style="text-align: right;">Prof Satish Regonda Chair, Rural Development Centre, IITH General Member</p>

S. No	Member	Testimony
18		<p><i>Creative human spirit to overcome contextual challenges is an essential nature of design and innovation. IIC gives an opportunity to systematically explore and agglomerate such endeavours for the betterment of the society.</i></p> <p style="text-align: right;">Dr Prasad S Onkar FIC - Unnat Bharat Abhiyan(UBA), IITH General Member</p>
19		<p><i>To support the vision of Atmanirbhar Bharat, the Institute Innovation Council of IITH aims to create a vibrant innovation ecosystem for students, faculty, and staff. IIC offers a valuable platform to showcase and develop entrepreneurial skills"</i></p> <p style="text-align: right;">Dr Prakhar Gupta FIC - Students Affairs, IITH General Member</p>
20		<p><i>The Institution's Innovation Council (IIC) at IIT Hyderabad fosters a vibrant ecosystem for innovation and technology development. By engaging all stakeholders, it promotes knowledge sharing, expert guidance, and coordinated efforts, positioning IIT Hyderabad as a leader in innovation and technological advancement."</i></p> <p style="text-align: right;">Prof B Venkatesham FIC - TTO, General Member</p>
21		<p><i>IIC@IITH provides a platform to nurture an entrepreneurial mindset amongst the members of IITH Fraternity and society at large. The various activities undertaken focuses on covering all the facets of Innovation & Entrepreneurship thereby providing a platform for thought, dialogue and action in the pursuit of creating an enabling ecosystem.</i></p> <p style="text-align: right;">Dr Nakul Parameswar HoD, Dept. of EM General Member</p>
24		<p><i>As IIC @ IITH gains momentum, we wish all the stakeholders to engage in a spirit of national development through Innovation.</i></p> <p style="text-align: right;">Mr Vinay Chilakapati (CEO, Innomet Advanced Materials PYt. Ltd. Expert from nearby Industry /Industry association / EcosystemEnablers)</p>

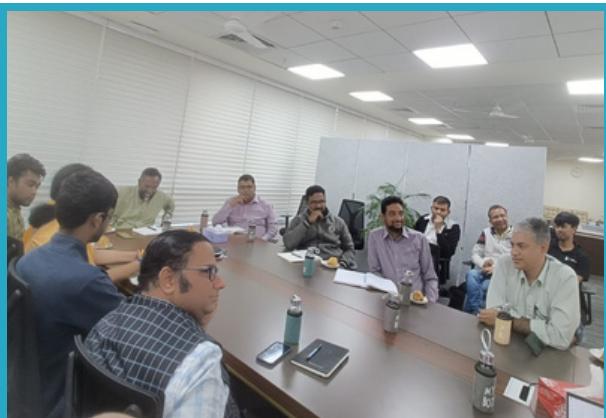
S. No	Member	Testimony
25		<p><i>The IIC at IITH is committed to fostering entrepreneurship by providing guidance and mentorship to aspiring entrepreneurs. Additionally, The IIC is inspiring young entrepreneurs by offering unique workshops, programs, etc., and actively delivering updates on social media</i></p> <p style="text-align: right;">Public Relations Officer IIC Portal Coordinator</p>
27		<p><i>Spearheading student innovation activities as the Entrepreneurship Cell Head under the guidance of the Institute Innovation Council has allowed me to make an impact and witness the transformative change of the entrepreneurial landscape at IIT Hyderabad. IIC and E-Cell's constant efforts have significantly enriched the entrepreneurial spirit on campus. With enhanced support and a greater risk appetite, students are now motivated to explore innovative ideas, fostering a vibrant startup culture at IIT Hyderabad.</i></p> <p style="text-align: right;">Aditya Gupta, Head, E Cell, IITH Startup Activity Coordinator</p>
28		<p><i>Working with IIC was one of the best experiences of my student life. Seeing discussions of innovation happen at an institute level, was enlightening, and being given a stake in these discussions at an equal level with faculties made the process much more democratic for us. IIC is the best thing to develop the innovation culture in a campus.</i></p> <p style="text-align: right;">Arsh Arora, Head, Tinkerer's Lab, IITH IPR Coordinator</p>
29		<p><i>It is inspiring to see innovation discussions happening at the institute level and even more rewarding to have an equal say alongside faculty. IIC efforts have truly boosted the entrepreneurial spirit on campus, motivating students to explore innovative ideas and develop a strong startup culture.</i></p> <p style="text-align: right;">Nenavath Arjun, Media Secretary, Student Gymkhana, IITH, Social Media Coordinator</p>
26		<p><i>The Sci-Tech Council greatly appreciates the efforts of the Institute Innovation Council (IIC) in fostering a culture of innovation and creativity. The workshops and sessions organised by the IIC were well-planned and genuinely engaging, offering practical insights and skills that our members truly benefited from.</i></p> <p style="text-align: right;">Armaan, Science & Technology Secretary, Student Gymkhana, IITH, Innovation Activity Coordinator</p>

Images of various IIC activities conducted

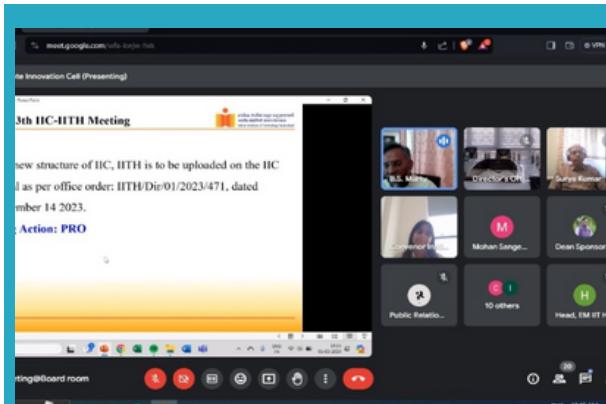
IIC Meetings' Screenshots



Quarter-1, AY 2023-24



Quarter-2, AY 2023-24



Quarter-3, AY 2023-24



Quarter-4, AY 2023-24

Snapshots of few Entrepreneurship & Innovation sessions at IITH



Workshop titled “IP Strategy Leader”
on the occasion of World Intellectual
Property Day



Session on “Operational Excellence in
Entrepreneurship”



A Session on National Technology Day



Workshop on IPRs and IP Management for Startup



One Day Workshop on Innovation to Commercialization (I2C)



Workshop on Self Discovery: The Way to build teams at workplace



A Talk on “Balancing Skepticism & Innovation: The Intersection of Entrepreneurship and AI”



BIRAC – Promoting Biotech Startup Innovation Ecosystem

Contact

Dr Jayshree Patnaik
Convenor, IIC-IITH
Mail ID: convenor.iic@iith.ac.in

INSTITUTE INNOVATION COUNCIL (IIC)

IIT HYDERABAD



2023-24

(SEP 01, 2023, TO AUG 31, 2024)

ANNUAL REPORT

<https://innovationcouncil.iith.ac.in/>



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)



ભારતીય સૌંકેટિક વિજ્ઞાન સંસ્કૃત પ્રોદર્શાલા
ભારતીય પ્રૌદ્યોગિકી સંસ્થાન હૈદરાબાદ
Indian Institute of Technology Hyderabad