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IIT Hyderabad

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IIT HYDERABAD
TECHNOLOGY INCUBATION CENTER

I TIC FOUNDATION
IIT HYDERABAD

Annual Report
2022-23

Index

1. Preface

It is with great pleasure that we present to you the annual report of iTIC Incubator at IIT Hyderabad. This report showcases the progress and achievements of our incubator, as well as the vision and goals we have set for ourselves to foster a thriving entrepreneurial ecosystem within and beyond the institute.

In this report, we provide updates on the various initiatives and activities undertaken by iTIC to support startups and entrepreneurs. We also measure our progress through meaningful indicators and share the milestones achieved, as well as the challenges faced along the way.

We recognize that the success of iTIC is due to the tireless efforts of our team, composed of professionals from different backgrounds, as well as the guidance and support of our board members and mentors. We are also grateful to our incubatees, whose progress defines the success of the incubator.

We have designed this report to be easily understood by external readers, providing a comprehensive overview of the operations and initiatives of iTIC Incubator. We hope you find this report informative and engaging, and we look forward to your continued support as we strive towards our mission of fostering innovation and entrepreneurship.

2. Message from President

Prof B S Murty
President, I TIC Foundation IIT Hyderabad
Director, IIT Hyderabad

The Indian Institute of Technology Hyderabad (IITH) has made innovation a central component of its ethos. We have developed a vibrant ecosystem at the institute to support entrepreneurship and moving forward to excel as a global leader through a number of entrepreneurship avenues such as eCell, Department of Entrepreneurship & Management, SCIENT (BVR Mohan Reddy School of Innovation and Entrepreneurship), Intellectual Property Facilitation Center (IPFC), Technology Transfer Office (TTO), Technology Innovation Park (TIP), Technology Research Park (TIP), and incubators such as iTIC, Center for Healthcare Entrepreneurship (CfHE), TiHAN and FabCI. To coordinate these efforts, we also have the position of Dean (Innovation, Translation and Startups).

The aforementioned academic, research, technology development and startup initiatives of the Institute bring IITH closer to meeting societal demands and assisting the Nation in building the Atmanirbhar Bharat and moving towards a global leader. The flexible course structures of IITH in line with the NEP-2020 allow the students to tailor the pace and phases of their study progression. Several academic programes in the field of entrepreneurship, such as Minor in Entrepreneurship, Double Major in Entrepreneurship, Dual degree (BTech+MTech) in Techno-Entrepreneurship and an MTech in Techno-Entrepreneurship have been introduced at IITH. A student working on innovative projects through BUILD (Bold and Unique Ideas Leading to Development) projects can not only get funding from IITH, mentorship from its faculty but also can take a semester break with 6 credits to focus on his/her project. The industry oriented interdisciplinary and online academic programs allow more and more practicing professionals to upgrade and update their skills and knowledge.

Thanks to this ecosystem and these activities, IIT Hyderabad was ranked third in the NIRF ranking for Innovation this year. The innovation category assigns grades to institutions based on factors like the number of startups, the accessibility of prototype facilities for startups, the funding they received, the volume of technologies created and shared, the TRLs of technologies, the filing of IP and patents, etc. I have no doubt that IITH will accomplish many more significant goals in the future.

3. Message from General Secretary

Prof Suryakumar S
General Secretary, I TIC Foundation IIT Hyderabad
Dean - Innovation, Translation and Startups
Professor - MAE, IIT Hyderabad

One common question we keep getting is: what is innovation and how exactly is it different from say research or invention. The short answer to it would be: market. The emphasis of innovation is not merely to do something novel, but to commercialize it too. So the contemporary meaning of innovation emphasizes taking the technological advancement from lab to market.

With this vision in mind, IIT Hyderabad has been striving to create a holistic atmosphere for innovation, supporting the entrepreneur through all these stages. These initiatives can be categorized into three interrelated set of activities, characterized in the form of the triple helix model, with each set interacting and furthering the other: (1) Academic Initiatives (2) Industry Needs and (3) Startups.

The incubation centers of IITH (and iTIC incubator playing a significant role) help handhold the student or faculty in embarking on their entrepreneurial journey and give them the necessary support for prototyping, market understanding, testing and certifications etc. These have been aided further with the formulation of “Institute Innovation and Startup Policy”, synchronizing the various innovation activities at IITH and giving them the necessary policy framework. The Startup activities are not just limited to IITH, but are open to all entrepreneurs at an pan-India level. With the inclusion of Jai Anusandhan, to the Jai Jawan, Jai Kisan, Jai Vigyan bandwidth, the Startup ecosystem of India is a happening space and IITH is keeping pace at it.

The 3rd rank in innovation category of NIRF has been pleasant news. While these rankings and indicators give us the occasional boost of confidence to move ahead, in a manner typical of academicians, let us remember that the long-term goal is to create a nurturing and facilitating ecosystem and culture. Seeking the support and participation of all in that journey.

4. About iTIC Incubator

4.1 Overview

iTIC Incubator at IIT Hyderabad is a non-profit organization established by the Indian Institute of Technology Hyderabad to foster and promote innovation and entrepreneurship not only within the institute but also in the wider community. Over the past seven years, iTIC Incubator has emerged as the premier incubator in India for deep tech startups. It has played a pivotal role in supporting startups that develop cutting-edge products and services in areas such as AI/ML, Quantum Computing, AR/VR/XR, Cybersecurity, Robotics, Industry 4.0, Blockchain, Digital Communication, Advance Materials, Drones, Biotechnology, and many others.

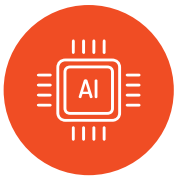
Since its inception in 2015, iTIC has provided a comprehensive platform for startups and entrepreneurs to create sustainable and scalable profit-making business ventures. iTIC offers a range of resources, including access to a strong mentor pool, financial aid, co-working space, software tools, IITH technological infrastructure, and a state-of-the-art prototyping lab. iTIC also provides guidance on intellectual property matters and networking opportunities with other ecosystems, industries, and venture capitalists.

Over the past seven years, iTIC has supported more than 130 startups through various programs which includes pre-incubation, incubation, advanced incubation, and acceleration programs, and has sanctioned more than INR 8 crores to startups. The startups incubated by iTIC have generated over INR 1200 crores of revenues and created more than 1000 jobs. The annual report of the iTIC Foundation IIT Hyderabad provides a comprehensive overview of the incubator's achievements, milestones, and challenges in the past year.

4.1.1 Focus Areas

Advanced Materials

Agritech



AI/ML

AR/VR

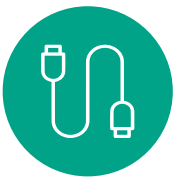
Biotechnology

Blockchain

Cleantech

Cybersecurity

Drones



Electronics

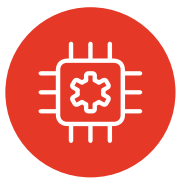
HealthTech

Industry 4.0

IOT

Mobility

Robotics



3D Printing

4.1.2 iTIC in Numbers

20
Startups Onboarded in 2022 - 23

22
Startups Graduated in 2022 - 23

48
Active Startups in 2022 - 23

INR 2.7 Crore
Fund sanctioned to startups in 2022 - 23

4000+
Prototypes made in 2022 - 23

90+
Office hours conducted in 2022 - 23

INR 1200 Cr+
Cumulative revenues by startups

160+
Mentors associated

INR 12.7 lakhs
Commercial revenues

1000+
Total jobs created by all startups till date

4.1.3 Startup Journey at iTIC

A startup can approach iTIC at multiple stages during their journey. We have categorized the support in 4 basic stages:

Pre-Incubation

A startup approaches with proof-of-concept of the technology and is provided support for 12 months to build a working prototype that demonstrates form, function and interaction.

Incubation

A startup with a working prototype (capable of showing form, functionality and interaction of the product) is supported for 24 months to build a Minimum Viable Product and gain early feedback from the market.

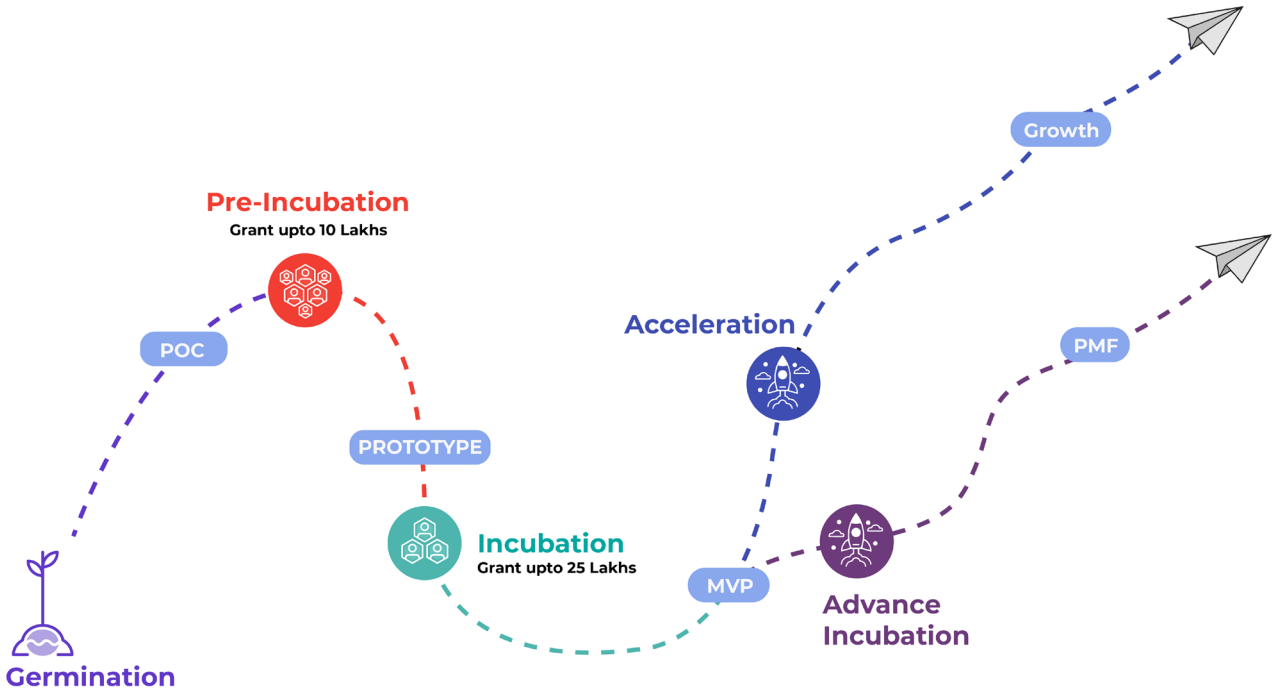
Advance Incubation

Startups with Minimum Viable Product and early traction are supported for 12 months to make finer refinements in the product to achieve a Product-Market Fit.

Acceleration

Startups with Minimum Viable Product and/or early traction are supported for cohort based 4 month programs with a single goal and are accelerated to reach the goal.

*Currently iTIC does not run an accelerator program.

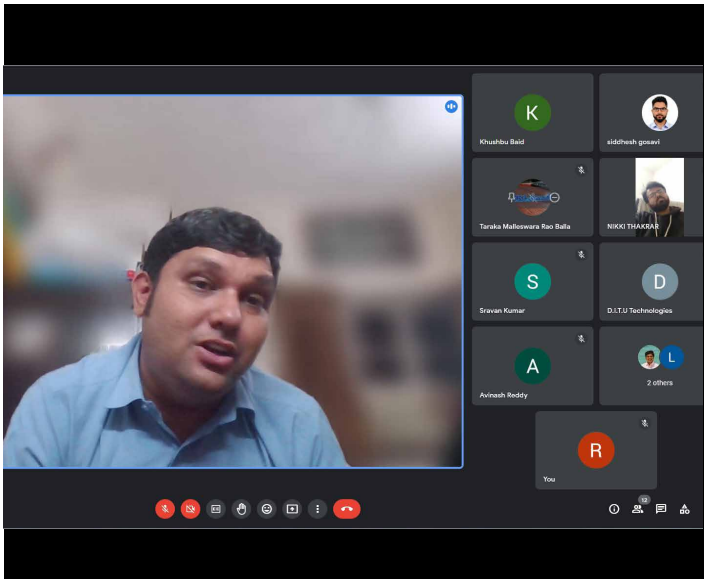


4.1.4 Startup Support

Structured Mentorship and Guidance

iTiC engages with a diverse set of global mentors who bring in expertise, knowledge, and experience from various domains and geographies. These global mentors offer valuable insights into different markets, technologies, and industries, providing startups with a broader perspective and enabling them to navigate the challenges of scaling their businesses. The network of mentors includes successful entrepreneurs, industry experts, investors, and academics, who are committed to supporting the growth of deep tech startups. Their contributions to iTIC's programs have been instrumental in the success of many of the startups that have been incubated and accelerated through iTiC.

iTIC offers structured mentoring support to associated startups, organizing relevant expert mentor sessions, case studies, seminars, and workshops. In the year 2022-23, we organized more than **15** such sessions where startups learnt from industry experts. Additionally, we arranged for one-to-one mentoring sessions, with over **20** mentor meetings conducted during the same period.



Office Hours

To ensure continuous handholding and support, we conduct Office Hours where core iTIC team members interact with startup founders to do course corrections, and help them overcome challenges and hurdles. In 2022-23, we conducted more than **90** Office Hours with the startups, guiding them towards their goals.

Access to IITH Ecosystem

Partnering with iTIC opens a plethora of opportunities for startups, including access to the extensive resources of IITH. Our incubation support includes access to IITH laboratories, workshops, libraries, auditoriums, as well as opportunities to engage with our experienced faculties who serve as advisors and mentors. Our talented students are also available to be hired as interns, freelancers, or team members.

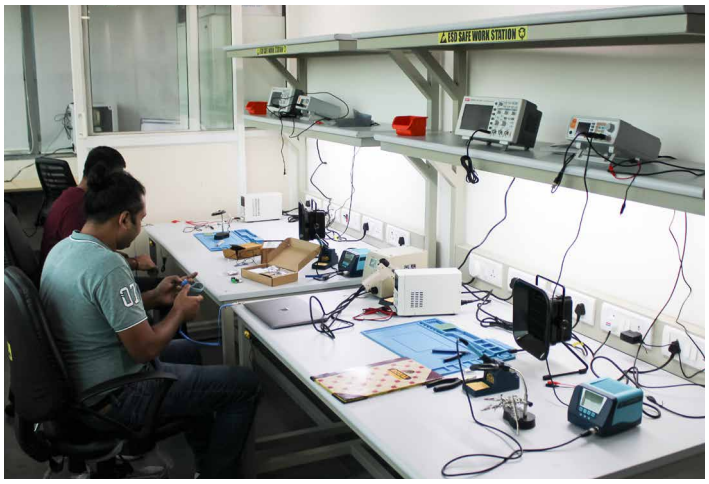
Investor Connects

Preparing startups for investments is a crucial part of our incubation support at iTIC. We share our tools and learnings, including the Fundenable toolkit by IAVC, guidance to prepare financial plans, and other necessary resources to make startups investment-ready. Once the startup is investment ready, we facilitate interactions with investors and provide opportunities for startups to participate in Demo Days. In this financial year, we established connections with 15+ Venture Capital firms and made 30+ startup introductions.

Networking Opportunities

We believe that networking is a crucial aspect of startup success, and that's why we provide numerous opportunities for our founders to connect with industry experts, government officials, and other entrepreneurs. Our networking opportunities include entrepreneurs' meets, startup showcases, physical workshops, and many more. Through iTIC, startups can unlock new avenues for growth and build meaningful connections.

4.1.5 iLAB



iLAB is designed to cater to the needs of early-stage startups by providing them with the maximum support they require. The upgraded iLAB is equipped with advanced amenities to create prototypes and facilitate batch production, making it a one-stop-shop for all the necessary services.

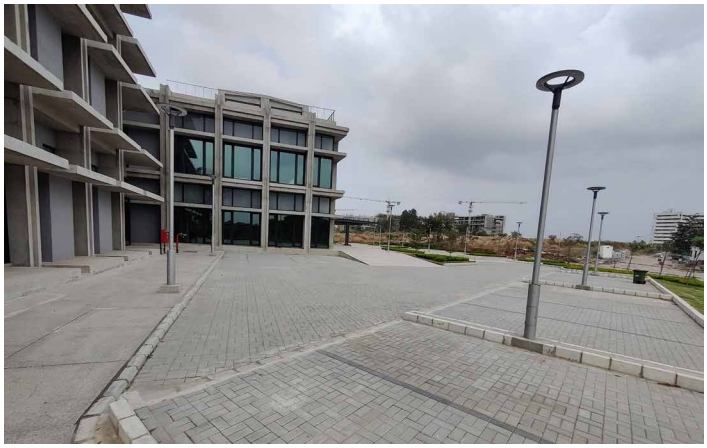
iLAB boasts over 80 different materials, including plastics, soft metals, foams, wood, and composites, making it a versatile lab that can handle a wide variety of mechanical jobs. It also offers top-of-the-line facilities for electronic, communication, and high-end computing development and testing. With these advanced facilities, iLAB can help startups create products that meet their specific requirements and specifications.

While most of the iLAB's facilities are accessible round the clock, some equipment and machines require trained personnel to operate them. This ensures that safety is maintained and the equipment is used efficiently. The lab offers different rates for incubated startups, IITH affiliates, and external organizations. The charges for accessing the maker lab amenities and tools are subject to the user's affiliation status.

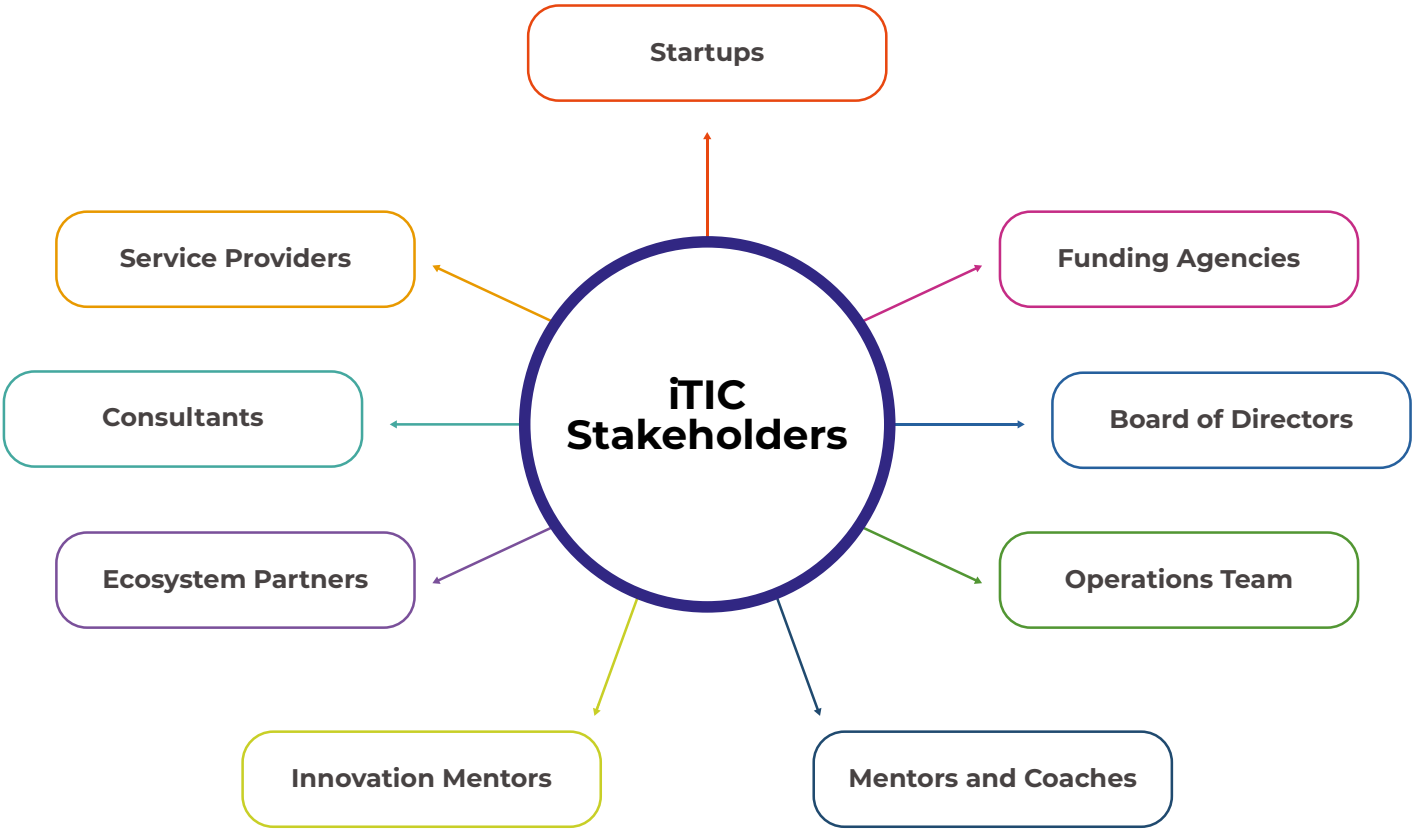
In conclusion, iLAB provides startups with a perfect environment to create and produce prototypes and products, thanks to its advanced amenities and top-of-the-line facilities. The lab's charges are flexible and affordable, making it accessible to a wide range of users.

4.1.6 Infrastructure

iTIC provides facilities to startups that includes office space, shared workspaces, meeting rooms, research labs and testbeds. By providing startups with these facilities, incubators can help them reduce their overhead costs and access resources that they might not have been able to afford otherwise. In addition to physical space, incubators also often provide startups with access to administrative services such as accounting and legal support, as well as mentoring and coaching from experienced entrepreneurs and business leaders. By providing these facilities and resources, incubators can help startups focus on their core business operations and accelerate their growth and success.



4-2. iTIC Stakeholders



4.2.1 Board Members

iTIC has a dedicated and experienced Board that provides strategic guidance and support to the incubator. Their diverse backgrounds and expertise have been instrumental in the success of iTIC. The board members bring in their experience and insights from different domains like academia, industry, finance and entrepreneurship to create an effective ecosystem for startups. Their constant support and guidance have helped iTIC in achieving its mission of fostering innovation and entrepreneurship. Their continued involvement and support are essential for iTIC to continue creating a thriving entrepreneurial ecosystem.

Prof. Murty B. S.
President
Director, IIT Hyderabad

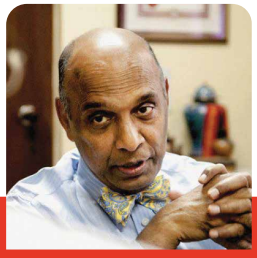
Prof. Subrahmanyam Ch.
Vice President
Professor, Chemistry, IIT Hyderabad

Prof. Suryakumar S
General Secretary
Professor, Mechanical, IIT Hyderabad

Prof. Siva Rama Krishna Vanjari
Joint Secretary and Treasurer
Professor, Electrical, IIT Hyderabad

Ms. Anita Gupta
Invited Member
Scientist G, DST-NSTEDB

Mr. Pradeep Mittal
Member
CEO, GreatFour Systems Inc



Dr. G. Nageswara Rao
Member
Founder, L. V. Prasad Eye Institute

Ms.Deepanwita Chattopadhyay
Member
Chairman & CEO, IKP Knowledge Park

Ms. Anuradha Acharya
Member
CEO, Mapmygenome and Ocimum Bio Solutions

4.2.1 Board Members

Prof. Ramesh Loganathan
Member
Professor, IIIT Hyderabad

Prof. C Krishna Mohan
Member (ex-officio)
Dean PCR, IIT Hyderabad

Prof. Tarun Kanti Panda
Member (ex-officio)
Dean IR, IIT Hyderabad

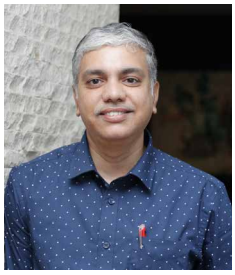
Prof. Ramesh G
Member (ex-officio)
Chair, Rural Development Center

Prof. Chandrashekhar Sharma
Member (ex-officio)
Dean SRC, IIT Hyderabad

Dr. Mudrika Khandelwal
Member (ex-officio)
Dean ACR, IIT Hyderabad

4.2.2 Team

iTIC team is a group of professionals from diverse backgrounds who work tirelessly to support startups at various stages of their development. Their expertise and dedication have been instrumental in the success of iTIC and the startups they support. Teamwork is highly valued at iTIC, and their collaboration has led to impactful interventions and initiatives that have benefited the startup ecosystem.



Prof. Suryakumar S

Faculty-in-charge

Prof. Surya is an IITian with a BTech, MTech, and PhD from IIT Madras and IIT Bombay. He is a faculty member at IIT Hyderabad and passionate about Additive Manufacturing and the manufacturing sector's success for India's economic growth.

Dhruv Gupta

Chief Operating Officer

Dhruv Gupta is a computer scientist and a design thinker. He has founded and consulted multiple tech startups, excelling in machine intelligence, user experience, and revenue models. Dhruv was awarded the Gandhian Young Technology Innovator Award 2016 by Dr R. A. Mashelkar at Rashtrapati Bhavan and is dedicated to helping organizations grow through his concept of CoRise.

Keyur Punjani

Manager - Programs

Keyur Punjani is a Mechanical Engineer who founded Stardust, a 3D printing company. After his entrepreneurial journey, he moved on the other side of the table to help startups and has worked with accelerators and incubators. He is also a Rajeev Circle Fellow which is run by Motwani Jadeja Family Foundation.

Sagar Panchal

Manager- Operations

Sagar is an experienced business and marketing professional with expertise in managing operations, programs, and communication at Incubators, Accelerators, Startups & Student-focused programs. He is trained in Incubator Management under the nexus innovation hub at the IC2 Institute and has worked with a-IDEA, an emerging Agritech incubator/accelerator. Sagar also has entrepreneurial experience and holds a Postgraduate Diploma in International Business Management.

4.2.2 Team

Mohd Sajjad Ali

Assistant Manager - Operations

Sajjad has more than 9 years of professional experience in multiple domains. Before joining the iTIC, he served in various positions under Technical (R & D), Administration, and Project Management domains with teams associated with both Private and Government aided organizations.

Ritu Chaturmutha

Executive - Programs

Ritu Chaturmutha is a multi-talented professional who excels in event management and set design. She possesses a unique ability to conceptualize ideas, visualize every detail and convey them with a creative edge. With over 7 years of entrepreneurial experience, she has successfully built two businesses specializing in event management and program design for toddlers.

Divya Bansal

Executive - Media

Divya bansal is an artist by passion and designer by profession. Her expertise lies in printmaking, including old conventional printing methods such as linocut, woodcut, and etching. She has completed her Bachelor's from the College of Art, Delhi University. She explores new ways and methods to broaden her creative field.

Naveen Kumar

Executive - Programs

Naveen Kumar has 7 years of experience in hospitality administration and facilities management in both government and private organizations. He has worked in various positions, including guest house management, project administration, and facility executive. Naveen is a Hotel Management Graduate from Osmania University with excellent team-working skills and enjoys collaborating with others.

4.2.2 Team

M.Mallaeshm

Executive - Accounts

M Mallesham, a JNTUH University graduate, has 7 years of experience working in various roles in stores & purchase and R&D projects in the government sector, as well as administrative operations in the private sector. He is known for being punctual, hardworking, and having excellent team-working skills.

Vamshi Chidhurappa

Maker Lab Technical Assistant

Vamshi is a Mechanical Engineer by profession, and is very enthusiastic about learning new things and technologies. He always tries to experiment with 3D printing and other fabrication technologies which results in some amazing products. He is the go-to guy for startups for helping them in their prototyping needs.

Vishnu Gomaskar

Maker Lab Technical Assistant

Gomaskar Vishnu has 20 years of experience as an Electronics and Electrical Technician. He is a Graduate and ITI Diploma holder in Electrician Trade. He is self-motivated, adaptable and enjoys learning new things to keep up with market changes.

Shiva Ramulu

Office Attendant

Shiva Ramulu B has 12+ years of experience in the position of service attendant. He is a multi-tasker and enjoys juggling between tasks and completing them with utmost dedication and focus. He loves interacting with people around him and takes care of arrangements and maintenance whenever required.

4.2.3 Innovation Mentors

The Innovation Mentors representing each department at IITH, serve as a primary resource for students seeking advice on entrepreneurship matters. Furthermore, they offer guidance and support in technical aspects to the startups.

Dr. Mohan Sangeneni
Advisor - Innovation & Translational Research, IIT Hyderabad

Ankita Roy
Design

Dr. Abhinav Kumar
Artificial Intelligence

Dr. Ambika S
Civil Engineering

Dr. Arabinda Haldar
Physics

Dr. Gunjan Mehta
Biotechnology

Dr. Mahati Chittem
Liberal Arts

Dr. Meduri Praveen
Engineering Science

Dr. Mohd Suhail Rizvi
Biomedical Engineering

Dr. Mudrika Khandelwal
Materials Science and Metallurgical Engineering

Dr. Narasimha Kumar
Mathematics

Dr. Satish Kumar Regonda
Climate Change

Dr. Saurabh Kumar Singh
Chemistry

Dr. Sayak Banerjee
Mechanical & Aerospace Engineering

Dr. Siva Vanjari
Electrical Engineering

Dr. Sobhan Babu
Computer Science

Dr. Suhanya Duraiswamy
Electrical Engineering

4.2.4 Grant Agencies and Program Partners

We appreciate the commitment of our partners and funders in building an innovation ecosystem at IITH. These collaborations have also boosted the quality and quantity of startups in our incubators. We look forward to continuing our partnerships to drive entrepreneurship and innovation in the country.

Action For India

Astra Microwave Products Ltd

Bharat Electronics Limited

Department of Science and Technology

HDFC Bank

Hindustan Shipyard Limited

4.2.4 Grant Agencies and Program Partners

iDEX - DIO

Mazgaon Dock Shipbuilders Limited

MeitY Startup Hub

National Mineral Development Corporation (NMDC)

NIDHI PRAYAS

NXP Semiconductors

TiHAN

4.2.5 Ecosystem Partners

iTIC Incubator has established partnerships with various ecosystem partners in diverse domains, including industry, government agencies, investors, service providers, and other incubators. These partners provide iTIC startups with access to various services, funding, mentorship, and networking opportunities, helping them to build and grow their businesses.

AIC-CCMB	AIC-GTU	AIC-Banasthali Vidyapith
Border Security Force (BSF)	BRTSIF	Canva
CIIE	Derbi Foundation	Eagle10 Ventures

4.2.5 Ecosystem Partners

E-Cell IIT Hyderabad	Engro	EnKash
FabCI	FICCI Flo	FIST, IIT Patna
Fundenable	Grammarly	Indian Academy of Venture Capital
Innocity	ISBA	iStart

4.2.5 Ecosystem Partners

IWIL

K & S Partners

Legalwiz

Manipal University Jaipur

Ministry of Social Justice

NSRCEL

Propel Incubator, BMU

Ramoji Group

RICH

SERS

SFS Advisors

ShAIp

4.2.5 Ecosystem Partners

Slack	Startup Oasis	T-hub
TSIC	VDC - Venture Development Centre, Gitam University, Vizag	VJ Hub , VNR VJIET, Hyd
WIN Foundation	MBCIE	

4.3 Startup Success Stories at iTIC

The impact of iTIC on startups goes beyond just financial aid. iTIC has been actively providing startups with technical and business handholding to ensure they have access to the resources and expertise needed to succeed. A glimpse of a few startup support is provided below:

Persist Energy

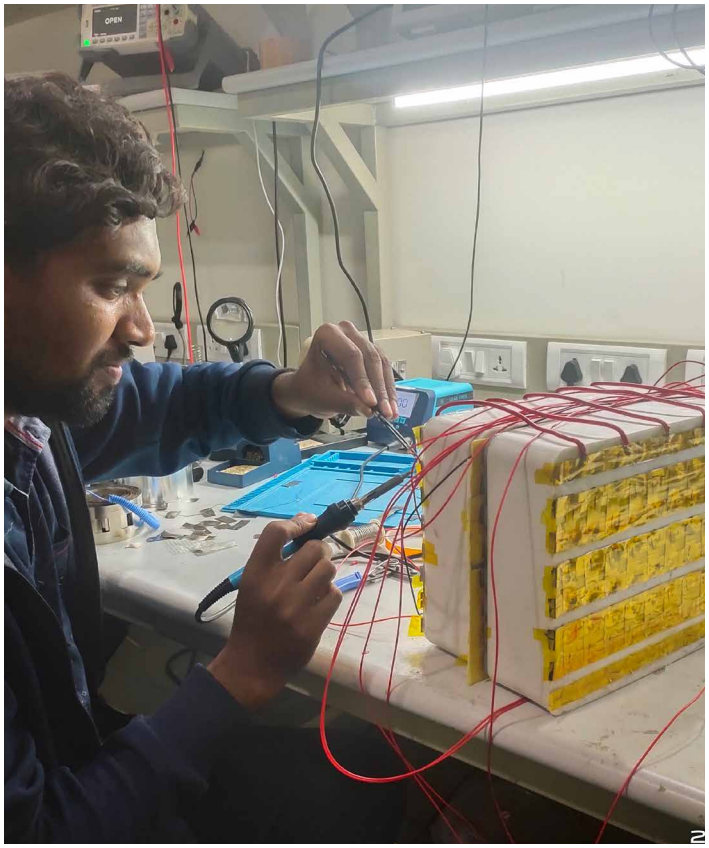
Persist Energy is building 2 wheeler EV for microentrepreneurs that can carry loads upto 350 kgs. They provide EV with a battery swapping innovative business model which brings recurring revenues. They are part of the Advance Incubation program.

Persist has been using iTIC facilities for their R & D and Product Development. Major fabrications of their latest MVP were built at iLAB. They also received promotional support for various exhibitions in E-Motor Show Hyderabad, Innovation Day, and many more. Other than this, Persist received a Purchase Order for their very first vehicles from Suzuki Innovation Centre at IITH, mentor connects, investor connects, etc.

Adiabatic

Adiabatic is working on building Passive Cooling Systems and Battery Management Systems for 2 wheeler EVs. They are part of the TiHAN EiR program.

Adiabatic has used iLAB extensively for their electronic development, fabrication and testing purposes. They have received focused mentoring, access to ICAT for testing & certifications, industry connects, investor connects and many more. Adiabatic has received the first few orders from iTIC ecosystem startups which validates their technology and use cases.



Vableu Mobility

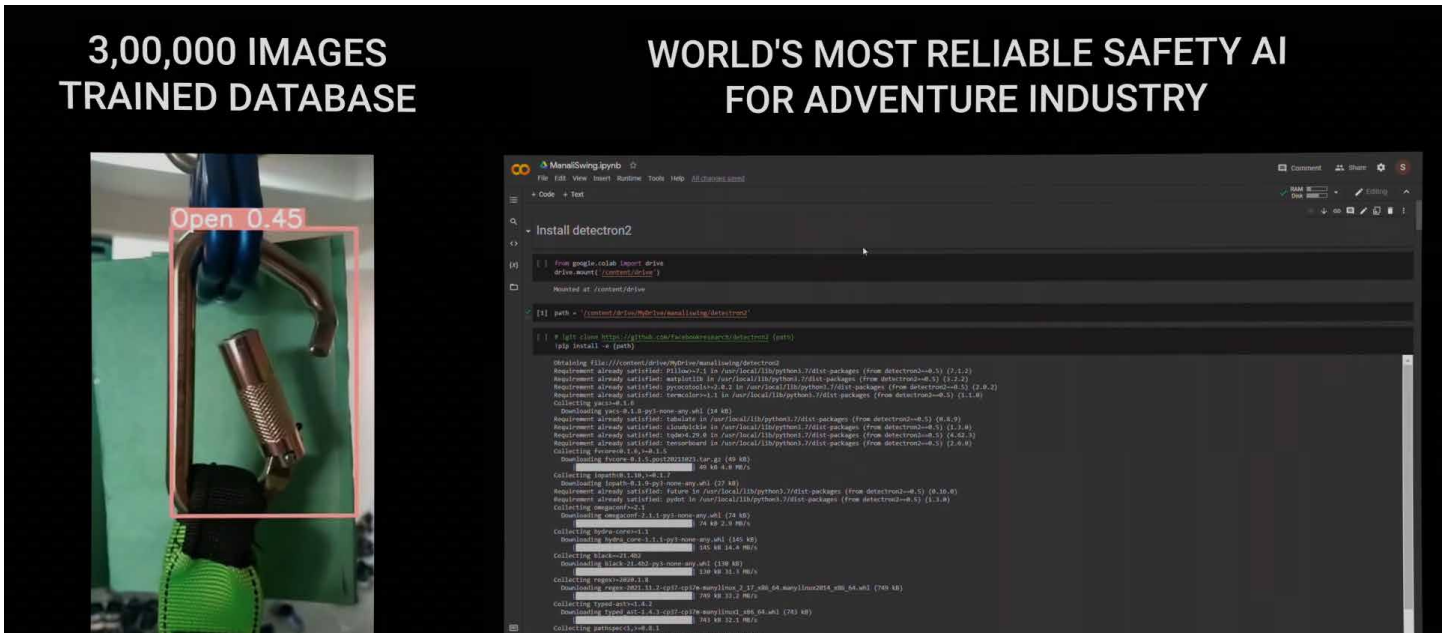
Vableu Mobility is building a motorized wheelchair attachment for differently abled people to make them independent. The attachment can be used by them at airports, malls, and other public places which reduces their dependencies to move freely. Vableu is currently part of TiHAN Incubation program and was part of Nidhi Prayas.

With iTIC's assistance, Vable underwent a significant transformation in their prototype. They received handholding and guidance in various areas such as hiring a design intern, exhibition participation, brand strategy, and technical feedback. This overhaul was made possible through the efforts of iTIC team, which provided valuable support and advice.

Manali Swing

Manali Swing offers one of the world's most creative & safe Giant Swing with 100+ Jump styles allowing one to experience the adrenaline of 70m free fall with safety backed by AI, promising impeccable safety like never before.

They have build their first prototypes using IIT Hyderabad infrastructure, labs and guidance. Last year, they completed its successful human trials at IIT Hyderabad under the presence of IRATA experts after 1,000 dummy jumps. The crew is currently stationed in Manali, working on the last few legal permissions before the official commercial launch. With plans to begin the on-site testing soon, they already have crucial NOCs from the Grampanchayat, the Forest Rights Committee, and the Primary clearances from SDM, DC, and the Tourism Department.



LiqSure

LiqSure has developed a system for the treatment of industrial wastewater. This system can treat any kind of industrial effluent at an affordable cost. It is energy efficient and cost effective in terms of Capex & Opex as compared to existing technologies in the same area.

They have developed 25 KLD commercial-scale plant and few smaller ones for the pre-treatment of industrial wastewater. It is validated with septage, and STP wastewater from GHMC, Hyderabad. They recently sold two of their systems to a customer. Currently, various onsite trials are going on at places as Solapur textile CETP, Chincholi MIDC area and Sircilla, Telangana. A textile industry has also shown interest to install a 10 KLD unit at Chincholi. Liqsure team have also treated biogas slurry wastewater and paneer whey waste water. The team has won various grants, awards and accolades from central and state government.

Scichip Robotics Private Limited

Scichip develops surgical assistant robotic systems at affordable prices, with ease of use, modular design and lesser training time requirements. Each subsystem of these products can become a product by itself with minor tweaks. Scichip with its unique model of business brings in advanced technologies for better patient outcomes.

The startup has extensively used iLAB for prototyping and have received mentorship support on multiple fronts like product development, Go-to-market strategies, fundraising, Intellectual Property, etc. The startup is currently receiving product feedback from doctors and exploring potential leads for sales.

5. Programs at iTIC

5.1 iTIC Incubation Program

About

iTIC Incubation program is designed to provide incubation support for up to 3 years to IITH students, faculties, and staff who are interested in converting their research into a startup. The program provides startups with all the necessary guidance and resources to convert research into technology and eventually into a commercial product. The program focus is on enabling deep-tech organizations, and it is sector agnostic.

Benefit to startups

iTIC Incubation program offers a comprehensive range of resources and support to assist entrepreneurs and startups in their endeavors. This includes organized mentorship, financial assistance, access to co-working spaces and IITH infrastructure, as well as the Makerlab, networking prospects, investor connections, and participation in iTIC seminars and events.

Eligibility criteria

- At least one founder should be an Indian citizen.
- The startup should have a Pvt. Ltd. company.
- The founder(s) should be current faculty, student, or staff of IITH.

Startups under Incubation program

Pranahita Biotronics

Pranahita Biotronics is developing AI-powered low-cost testing kits for Covid-19 and other viruses.

Sector: Health-Tech

Crystal Ball

CrystalBall is a UAV manufacturing company working on solving real-life problems in the fields of Survey, Surveillance, Agriculture, and Healthcare. They blend the solutions with UAV and AI to provide the maximum value to the customer.

Sector: UAVs, Mapping

Skelregen

SkelRegen is a life technology start-up with unique therapeutic technology for society in the field of bone tissue engineering. Currently developing biological maxillofacial bone implants which can completely reconstruct the commuted bone defects.

Sector: 3D Printing, Health-Tech

Eaffocare

EaffoCare is bringing innovative biomaterials and devices as an effective and affordable healthcare solution to society for treatment of various diseases and conditions. Major objective of EaffoCare Innovation is that the health care product/solution should be accessible and affordable to the common population having little access to healthcare.

Sector: Health-Tech

5.2 iTIC Advance Incubation Program

About

iTIC Advance Incubation program is tailored for accomplished startups and entrepreneurs who have progressed beyond the incubation stage but haven't yet attained operational breakeven. The main objective of this sector-agnostic program is to facilitate rapid discovery of Product-Market fit and bolster the Go To Market strategy of deep-tech companies.

Benefit to startups

iTIC Advance Incubation program offers structured mentorship support, financial aid, co-working space, access to IITH infrastructure, Makerlab, networking opportunities, investor connections, and access to iTIC seminars and events. These benefits help guide entrepreneurs and startups towards success.

Eligibility Criteria

To be eligible for the iTIC Advance Incubation program, the following criteria must be met:

- The startup must be a Private Limited company adhering to the definition of Startups given by DPIIT, Government of India.
- The startup must be working at the MVP stage with early traction and at least one paying client.
- Preference will be given to second-time entrepreneurs.
- Preference will be given to startups that have raised an initial funding round from external investors.

Startup/s under Advance Incubation program

Deusexvolt Electric Pvt. Ltd.

PERSIST™

Persist is making transportation affordable to the micro entrepreneurs of India by making EV technology affordable and suitable for the infrastructure of India through localization, indigenous platform development, fostering supporting ecosystem and flexible battery ownership.

Sector:EV, Mobility

5.3 NICE

About

NICE, or the NMDC Innovation and Incubation Centre, is a cutting-edge incubation center for deep tech startups that provides fellowship and incubation support through the iTIC Incubator in partnership with NMDC Limited. The program is sector agnostic, but has a deep tech focus, including areas such as AI/ML, Quantum Computing, AR/VR/MR, Cybersecurity, Robotics, IoT, Industry 4.0, Blockchain, Advance Materials, Drones, and Biotechnology.

Benefit to startups

NICE offers entrepreneurs and startups structured pre-incubation/incubation support, including financial aid, mentorship, co-working space, access to IITH infrastructure and Makerlab, networking opportunities, investor connections, and access to iTIC seminars and events.

- NICE Fellowship is a funded fellowship program that supports entrepreneurs at the idea/PoC stage in domains of interest to NICE with INR 9.6 Lakhs for 12 months.
- NICE Incubation is a grant program that supports prototype stage startups in areas of interest to NICE, providing financial aid of up to INR 25 Lakhs (in exchange for up to 3% equity).

Eligibility Criteria

To apply for the NICE Incubation and Fellowship program, the founder/s should be Indian citizens and working on a deep tech venture.

NICE Fellowship Eligibility Criteria

To apply for the NICE Incubation and Fellowship program, the founder/s should be Indian citizens and working on a deep tech venture.

- Founder should be between the age of 18 to 35 years
- Must be willing to work full-time with no predictable source of income

NICE Incubation Eligibility Criteria

- The startup should be at the prototype/MVP stage
- The startup should have technology with a possible IP
- The startup should be a Private Limited company adhering to the definition of Startups given by DPIIT, Government of India.

Startups under NICE program

NICE Fellowship

Greenpod Labs Pvt. Ltd.

GreenPod Labs is an Agri biotech company committed to minimize the post harvest losses by activating the defense mechanism in fruits and vegetables through their proprietary, easy to deploy, and affordable solutions.

Sector: Agri-Tech, Materials

Humus Biosystems LLP

Wastewater treatment plants in the market are highly intensive and use technologies of the past. Humus Biosystems provides smart and adaptive wastewater treatment systems that cut energy bills by 95% using cutting edge biotechnology, ML and IoT platforms.

Sector: Water Treatment

Genflow AI Pvt. Ltd.

Digitizing Livestock Care through tele-medicine

Sector: Live-stock, Tele-Medicine

PlebC Innovations Pvt. Ltd.

Tele-Operated Robotic Ultrasound System, technology that allows medical professionals to remotely operate ultrasound machines and perform examinations on patients remotely.

Sector: MedTech, Robotics

ManaliSwing Adventures Pvt. Ltd.

For all the Nature Lovers, extreme adventures seekers & travelers, who are dissatisfied with limited, uninteresting, & unsafe adventure options, Manali Swing offers one of the world's most creative & safe Giant Swing with 100+ Jump styles allowing one to experience the adrenaline of 70m free fall with safety backed by AI, promising impeccable safety like never before.

Sector: Travel & Tourism, AI

Octarange Technology Pvt. Ltd.

Octarange specializes in providing advanced battery pack technology for Electric vehicles and Grid Storage Applications. Their tech stack comprises liquid based thermal management system, battery management systems and battery analytics framework.

Sector: EV, Energy Storage

LiqSure Systems Pvt. Ltd.

LiqSure has developed a system for the treatment of industrial wastewater. This system can treat any kind of industrial effluent at an affordable cost. It is energy efficient and cost effective in terms of Capex & Opex as compared to existing technologies in the same area.

Sector: Water Treatment

Learn and Empower Pvt. Ltd.

Learn and Empower Pvt. Ltd is creating Resonate Learning - India's first games + Augmented Reality based teaching-learning & assessment platform that helps the deaf & hard of hearing kids to practice & understand concepts 4-6 times faster & enables the educators to use it as a teaching & assessment tool.

Sector: AR, Ed Tech

Milatronics Pvt. Ltd.

Milatronics is a company extensively focused on solving the problems of aqua farmers by introducing an automatic feeder and pond automation devices. It aims to create an ecosystem where the traditional practices are made effective with the support of technological advances.

Sector: IoT, Aquaculture

Naxatra Labs Pvt. Ltd.

Naxatra Labs is a technology company involved in development of drive systems for electric 2 and 3W applications.

Sector: Engineering, EV

Elkemie Materials and Solutions Pvt. Ltd.

Elkmie is working on synthesizing five-element nanowires and customizing five-element alloys with different compositions and morphologies for Magnetic memory devices, Biomedical, Sensors, Energy, and Automobile sectors.

Sector: Nanotech, Materials

MediG Inventions Pvt. Ltd.

MediG inventions is developing advanced and early care for the cardiac arrest medical condition with smart integration of technology to increase the survival rate.

Sector: Health-Tech, Robotics

5.4 TiHAN

About

TiHAN is a Technology Innovation Hub sanctioned by the Department of Science and Technology in India, focused on autonomous navigation and data acquisition systems. It collaborates with iTIC Incubator to offer startup support programs at the pre-incubation and incubation level.

Areas of Interest

- AI/ML frameworks for autonomous navigation and multi-sensory data aggregation using UAVs, ROVs, etc.
- IoT and CPS architectures for efficient use of UAVs, ROVs, etc.
- Remote Sensing and Geographical Information Systems
- Edge computing architectures for multi-sensory information processing
- Control Engineering
- Aerodynamics and Mechanical Design for efficient UAVs, ROVs, etc.
- Robotics for autonomous systems
- Design for Smart Mobility (aerial/ terrestrial)
- Efficient image processing techniques
- Autonomous vehicle swarms and their applications
- Drone Components (Make in India)

Benefit to startups

- Funding support of up to INR 10 Lakhs under TiHAN EiR/PRAYAS program
- Funding support of up to INR 25 Lakhs (in exchange of 3% equity) under TiHAN Incubation program.

Other than benefits provided by iTIC, special support for startups working under TiHAN, includes access to:

- Test Tracks
- Emulation of Real-World Scenarios
- State of the Art Simulation Technologies
- Road Infrastructure
- V2X Communication
- Drone Runways and Landing Area
- Mechanical Integration Facility
- Centralized Control Room/Ground Control Station
- Hangars and many more

Eligibility Criteria

- Idea should be in the areas of interest for TiHAN
- Founder of the startup should be an Indian citizen
- For TiHAN PRAYAS/EiR program, entrepreneurs should have an idea or a Proof of Concept (POC)
- For the TiHAN Incubation program, entrepreneurs or startups should have a prototype.

Startups under TiHAN program

TiHAN EiR/PRAYAS

Qoptars Pvt. Ltd.

Qoptars is an AI based drone startup that makes payload swappable drones for Aerial videography, Mapping & Surveillance.

Sector: UAVs, Video Analytics

Rovonize Systems Pvt. Ltd.

Manufacture and Sales of State of the art surveillance aircrafts and copters with a wide range of civilian and Military application.

Sector: UAVs

Adiabatic

Current thermal management systems are quite inefficient and expensive. Adiabatic uses innovative phase changing materials to create an efficient, cost effective heat management solution that would significantly improve battery health.

Sector: BMS, Batteries

AVIAC Technologies Pvt. Ltd.

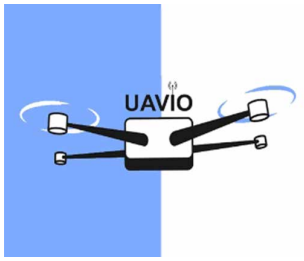
Aviac Technologies is working towards building a carbon-neutral infrastructure and prioritizing sustainable practices by simplifying Spectrometry for Ecological monitoring.

Sector: AI/ML, UAVs

Autonomous Logistics Technologies Pvt. Ltd.

ALOG® is a deep tech startup developing autonomous systems to improve productivity in logistics, retail and manufacturing industries.

Sector: AI, Robotics



UAVIO Labs Pvt. Ltd.

Create sentient machines capable of making smart decisions while performing tasks in the real world autonomously.

Sector: AI, UAVs

Qoptars Pvt. Ltd.

Qoptars is an AI based drone startup that makes payload swappable drones for Aerial videography, Mapping & Surveillance.

Sector: UAVs, Video Analytics

Vableu Mobility Pvt. Ltd.

Vableu is a Technology Driven startup solving SPECIAL PEOPLE MOBILITY problems.

Sector:Mobility

Heavity Automation Pvt. Ltd.

Automatic weight balancing stair climber with 500 kg payload capacity that can easily climb stairs and travel across different terrains.

Sector:Mobility

5.5 iDEX

About

iDEX is a program initiated by the Ministry of Defense, Government of India, with the aim of fostering innovation and technology development in the Defence and Aerospace sectors. It engages various industries, including MSMEs, start-ups, individual innovators, R&D institutes, and academia. Through grants/funding and other forms of support, iDEX enables these innovators to carry out R&D activities that have the potential for future adoption in Indian defense and aerospace needs. As a Partner Incubator (PI) for iDEX, IIT Hyderabad, with the help of iTIC as the implementation body, plays a crucial role in supporting innovators and startups in this sector.

Area of Interest

iDEX focuses on identifying and supporting startups that can contribute to the defense sector by developing innovative solutions in areas such as robotics, drones, autonomous systems, artificial intelligence, cybersecurity, and other emerging technologies. The program aims to promote entrepreneurship and innovation in the defense sector and encourage startups to develop products that can enhance the capabilities of the Indian Armed Forces.

Benefit to startups

Startups, MSMEs, individual innovators, R&D institutes, and academia are engaged through Open Challenges, DISC challenges, and PRIME challenges. These engagement opportunities offer financial aid, product co-development with the military, certification, facilitation of pilots, and integration of technologies and products into military applications. The program also includes mentorship support, access to workshops and seminars, and infrastructure access by iTIC/IITH, which helps innovators develop their ideas without any fear of failure and bring ready products to the market.
Funding benefits include:

- Startups selected under iDEX Open Challenge gets financial aid of upto INR 1.50 Crores
- Startups selected under iDEX DISC Challenges gets financial aid of upto INR 1.50 Crores
- Startups selected under iDEX PRIME Challenge get financial aid of upto INR 10 Crores.

Eligibility Criteria

- Start-ups, as defined and recognized by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.
- Any Indian company incorporated under the Companies Act 1956/2013, primarily a Micro, Small and Medium Enterprises (MSME) as defined in the MSME Act, 2006.
- Individual innovators are also encouraged to apply (research & academic institutions can use this category to apply).

Organizations under iDEX program

Company Name	Problem Statement
Aditya Precitech	4-Axis Stabilised Antenna for C & Ku Band
Aditya Precitech	Indegenous Loitering Munitions
Aeromobix System Pvt. Ltd.	Portable Hydraulic Metal Cutter
Anaware Varuni Systems and Solutions LLP	Long Range Communication Technology for locating Torpedoes
Anaware Varuni Systems and Solutions LLP	Noise Augmentation Unit for submarine
Anvation Labs Pvt. Ltd.	Secure Hardware Encryption Device
ApexPlus Technolgies	FMCW Real time RADALT Tester
Arbudamba Consultancy Pvt. Ltd.	Long Range Communication Technology for locating Torpedoes
CoreIOT Technologies	Helmet Mount Conformable Antenna
CoreIOT Technologies	Development to achieve uniform circular polarization in designing a Cavity Backed Spiral Antenna (1-18 GHz)
Elmot Alternators	Implementation of Inertial Energy Storage System (IESS)

Company Name	Problem Statement
Guardinger Technologies (OPC) Pvt. Ltd.	AI Based Remote Monitoring System to access wear down of Outboard Shaft Bearing (A & P Bracket, outer and inner stern tube bearing)
Jisnu Communications Pvt. Ltd.	ASIC Based Space Communication using Software Defined Antenna
Raphe mPhibr Pvt. Ltd.	AI-enabled Floatation Device dispersal drone
Saif Automations Services LLP	Autonomous Beach Check Survey Device
Saira IoT Solutions Pvt. Ltd.	Underwater Photography Noise Cancellation using Artificial Intelligence and Deep Learning
SPM India Limited	Development of equipment capable of automatic weighing and filling of powder like substance explosives within 2mg tolerance (i.e 28-30 Mg.)
SPM India Limited	Design of Active Hydro Pneumatic Supressions with Variable dampening characteristics to meet different road profiles
Symtronics Automation Pvt. Ltd.	AI Based Remote Monitoring System to access wear down of Outboard Shaft Bearing (A & P Bracket, outer and inner stern tube bearing)
Tardid Technologies Pvt. Ltd.	AI based multi-Radar signal conversion, distribution and multi-target tracking for IN ships based on particle filtering
Veera Tacticals Dynamics LLP	Moisture Wicking Hydrophobic Weapon Cover
Varuni Systems Pvt. Ltd.	AI based Adaptive Noise Cancellation for SONARs of Autonomous Underwater Vehicles (AUVs) and Shipborne SONARs
Vimal Fire Controls Pvt. Ltd	Aerogel based fire proximity suit for better efficiency in fire-fighting.
Vimal Fire Controls Pvt. Ltd.	Fire Suppressant material that can suppress fire in the initial stages only

5.6 NIDHI PRAYAS

About

NIDHI PRAYAS is a pre-incubation initiative under the Department of Science & Technology (DST), Government of India's NIDHI program, which aims to nurture ideas and innovations into successful startups. Specifically, NIDHI PRAYAS supports young innovators in the hardware domain by providing them with resources and guidance to turn their ideas into working prototypes. This initiative is part of DST's broader efforts to promote science and technology in the country and foster the development of cutting-edge technologies that can benefit society.

Area of Interest

The areas of interest for NIDHI PRAYAS include manufacturing, agriculture, healthcare, education, infrastructure and transportation, environment and cleantech, energy solutions, biotechnology, water, and emerging technologies such as IoT, AI/ML, and others.

Benefits

Prototyping grants of up to INR 10 lakhs to entrepreneurs with hardware ideas that have the potential to create deep tech startups. In addition, startups associated with NIDHI PRAYAS at iTIC can benefit from co-working space, mentorship, IP support, prototyping support, and financial aid.

Eligibility Criteria

- Founder/s should be Indian citizens
- Demonstrate the potential to establish a deep tech startup
- Possess technology with potential for intellectual property (IP) development.

Startups under Nidhi Prayas program

VR Smart Dental

VR Smart Dental Implant is a manufacturer of Dental Devices with effective design and functionality.

Sector: Health Tech

Versanova

Pulsexcel develops a portable, versatile device to accelerate tooth movement during orthodontic treatment, which will reduce the treatment duration, iatrogenic effects and enhance patient's comfort and compliance.

Sector: Health Tech

Affocuris

Developing a low cost and user friendly healthcare product which detects CRP levels in blood.

Sector: Healthcare, IoT

Healer Hoodie

The organization develops wearable technology that likes to explore new technologies and create quality products to solve interesting problems in the world.

Sector: Clothing, Health-Tech

Electra

Electra is building a smart BMS using advanced estimation algorithms and predictive analytics for EVs.

Sector : BMS

Tekra Solutions Pvt Ltd

myUDAAN is a Technology Driven startup solving SPECIAL PEOPLE MOBILITY problems for Independent Living. The Product has been designed for PwDs and has been Leveraged through the Elderly.

Sector: Health Tech

Illenium AI

ILLENIUM AI strives to create products and illuminate lives and lifestyles with a positive impact. Their major focus is to create affordable and quality tech solutions in the areas of Healthcare and Retailtech.

Sector : IoT, AI/ML

Blupower

Blupower is in scaling of distributed & decentralized hydropower solutions that produce reliable renewable energy, which is climate-resilient and balances the competing demands on water through a combination of innovative hardware design and AI.

Sector: Renewable Energy

CrystalBall

CrystalBall is a UAV manufacturing company working on solving real-life problems in the fields of Survey, Surveillance, Agriculture, and Healthcare. They blend the solutions with UAV and AI to provide the maximum value to the customer.

Sector: UAVs, Mapping

Uyirie Logics

Uyirie Logics provides personalized, precision cancer therapeutics simplified in a microfluidic device.

Sector: Health-Tech

FRP Kavach

Most of the existing buildings and bridges require immediate repair or structural strengthening for various reasons. In India, more than 20,000 bridges are at the end of their life. The proposed FRP Kavach system is very effective solution for strengthening the existing bridges and buildings.

Sector: Materials, Construction

Seanavix

Seanavix is an Indian bootstrapped startup that provides VR and AIOT based autonomous robotic solutions mainly to the offshore oil and gas industries and local water governing bodies for subsea environment and appliances, which are incorporated into subsea inspections, maintenance, and repair operations in oil and gas stations.

Sector: Robotics, Maintenance

Once is not enough

Spreading 3D printing technology to more and more people and to enable people to use recycled plastics for 3D printing to ensure a circular economy.

Sector: Recycling, 3D Printing

D.I.T.U Technologies Pvt. Ltd.

A wearable device that can track hand movements and detect gestures. The device will convert sign language into speech to help deaf people to communicate freely.

Sector:AI/ML, Sensors

E - Prognosis

Building a system for EV vehicle to monitor motors and eventually making EV safe and reliable.

Sector: IOT, EV

Farmx Innovations

Farmx Innovations is a company that makes smart devices to solve livestock sector problems with Al & Data Analytics. They work towards farm automation and maintaining sustainable environmental in a farm which results in increased production and prevents the farmer from unexpected hazardous conditions.

Sector: IOT, Agri-Tech

Cane Man

Developing low cost and farmer friendly harvester for sugarcane

Sector: Agri-Tech

Pavakah Energy Pvt. Ltd.

Pavakah Energy is a clean energy start-up that has developed a nano-colloidal photovoltaic paint, which can turn any surface into a solar panel. This technology has the potential to greatly increase the accessibility of solar energy, while promoting sustainable energy practices and minimizing the need for new infrastructure.

Sector: Cleantech & Advanced Sustainable Materials

5.7 MeitY TIDE 2.0

About

MeitY TIDE 2.0 is a program initiated by the Ministry of Electronics & Information Technology (MeitY) that aims to provide financial and technical support to ICT startups focused on emerging technologies such as IoT, AI, Blockchain, Robotics, etc.

Area of Interest

The areas of interest for MeitY TIDE 2.0 program are Education, Agriculture, Financial inclusion, Infrastructure and transportation, Environment and cleantech, Clean energy, and other emerging technologies such as IoT, AI, Blockchain, Robotics, etc. with a focus on supporting ICT startups.

Benefit to startups

- Startups at the Idea/PoC stage can receive an EiR stipend of up to INR 4 Lakhs and pre-incubation support for one year to validate and develop their idea.
- Prototype stage startups can avail grant support of up to INR 7 Lakhs and pre-incubation support for one year.

Eligibility criteria

- To be eligible for the EiR stipend, the applicant must be an Indian citizen with an idea or PoC, and have at least one co-founder committed to pursuing the idea full-time.
- For the grant position, the applicant must be an Indian citizen with a Proof of Concept (POC) or Prototype.

Startups under ‘MeitY TIDE 2.0 program

iHeal HealthTech Pvt Ltd

A smartphone-based anthropometry technology that will allow frontline workers to effectively measure and monitor the height of infants and children.

Sector:AI/ML, Healthtech

Zigyaasa

A technology company with video enablement at the epicentre. Focusing on simplifying the needs of video industry and having security at the backbone.

Sector: MultiMedia, AI/ML

My Collectibles

A platform for buying, selling, and trading non-fungible tokens, which are digital assets that are unique and cannot be replicated or replaced. The platform provides a diverse selection of practical payment methods that simplify the process of buying and selling NFTs. The most significant advantage is that it is exceptionally user-friendly and suitable for beginners.

Sector: Blockchain, NFTs

5.8 ABCD

About

Acclimatization BootCamp for Defence startups (ABCD) is a 12-week program launched by iTIC Incubator at IIT Hyderabad in collaboration with iDEX DIO this year which aims to scout startups with technological innovations built for civilian applications and realign them for defence use cases.

Launch of ABCD at DefExpo 2022

During DefExpo 2022, Honorable Defence Monister of India, Shri Rajnath Singh launched the Acclimatization BootCamp for Defence startups (ABCD). The ABCD program provides startups access to the defence market, feedback from the defence ecosystem, and access to iTIC and IITH infrastructure.

Program Structure

After the startup are selected under ABCD program, they go through a structured bootcamp consisting of 4 modules as under:

- In the first module, startups submit technical and product documentation.
- The documentation is shared with knowledge partners including institutions from our armed forces and veterans in the second module. iTIC also assigns mentors for one-to-one mentoring for each ABCD cohort startup.
- In the third module, startups work on modifying their product for defence applications with access to prototyping labs and other IITH labs.
- In the last module, startups are supported in writing proposals for various grants and direct procurements.

Benefits to Startups

- Access to the defense market
- Feedback from the defense ecosystem
- Access to iTIC and IITH infrastructure
- Support in writing proposals for grants and direct procurements

Eligibility

- A working prototype
- An Indian entity with majority stakeholder of Indian citizen/s
- A team with technical expertise.

Startups under ABCD program

Rovonize

Rovonize is working on detecting small scale drones and destroying them in mid-air without making any damage on the ground.

Vajra-CRETE

Vajra-CRETE is high-performance concrete that has 3-time higher compressive and tensile strength than regular concrete. It has potential applications in army bunkers construction and nuclear weapons storage structures. This is possible by designing the bunkers as multi-layered UHPFRC concrete.

Vacus

Vacus is a technology start-up providing accurate wireless indoor positioning & tracking for people and assets across different verticals (Datacenter, Manufacturing & Healthcare).

Prayogik

Prayogik is building a Modular Integrated Hybrid Power System, which is rugged, modular, portable, plug & play power generator without any moving part and having intelligent autonomous, self-diagnose, remotely controlled BMS with operating range from -40 to +60 deg. C.

Enord

India's First AI on Edge Drone Tech Startup

Arka Aerospace

Elasticopter is a novel shape-changing drone concept that can carry different sized payloads without compromising flight stability. This unlocks new possibilities in logistics, facility management and military markets.

Qoptars

Building disposable drones for defence applications

Alog Tech

ALOG® is a deep tech startup developing autonomous systems to improve productivity in logistics, retail and manufacturing industries.

Binford Labs

Binford Labs is working to build drones with automatic firing machine gun mechanism.

Ewigway

Evigway Technologies Pvt Ltd is an Indian company working in the Defense sector under the Military Intelligence & Advance IT solutions domain.

Aiotize

Bespoke automation & business intelligence solutions for enterprises using deeptech stack.

6. Events and Activities

6.1 Skill Development Activities

6.1.1 Fabrication Factory Series (FFS)

Overview

iTIC Incubator and IIT Hyderabad identified a gap between basic hardware and electronic skill set required for startup founders. To bridge this gap, a 3-module (independent) course was launched with the aim of helping founders learn basic prototyping skillsets and hands on experience. The course also motivated students and entrepreneurs to see themselves as inventors, builders, and creators.

The course was designed for a physical format, with a commitment of 6 hours per day for 5 days and was divided into 3 modules of one week each. The course was conducted from June 6, 2022 to June 24, 2022.

Module 1: Internet of Things(IoT) in Practice

Dr. G V V Sharma from Electrical engineering department at IITH, shared his expertise on data acquisition from sensors, microcontroller programming, and communication between microcontrollers. He also covered embedded C, which is used to develop microcontroller-based applications.

Module 2: Workshop Practice

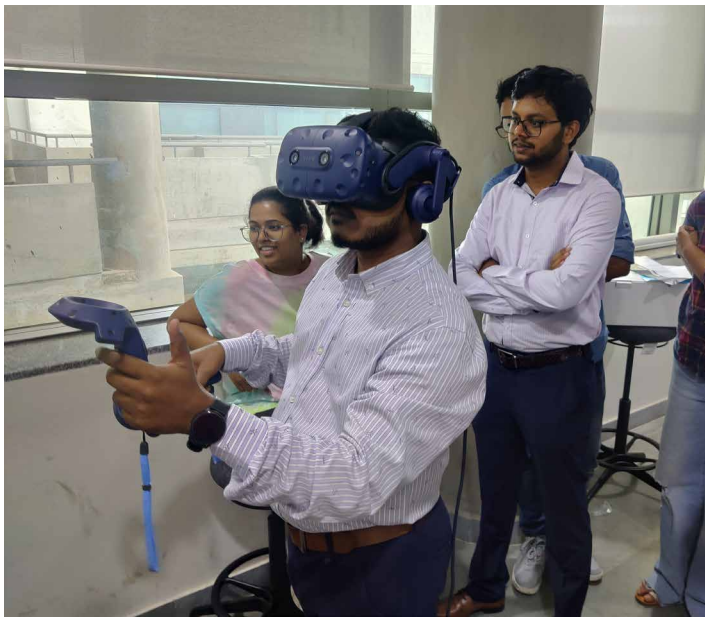
Dr. Suryakumar from the Department of Mechanical and Aerospace at IITH, covered 2D and 3D cutting by laser and CNC machines, software tools for tool path planning. He also incorporated basic safety protocols, welding - robotics and manual, etc to make the workshop more interesting.

Module 3: Digital Fabrication

Dr. Prasad Onkar, from the Department of Design at IITH, covered CAD designing, laser cutting, 3D printing, silicone rubber & composite molding. He also covered lithophanes, Vector vs Rastor methods and much more.

Course Attendee

The course was attended by 70+ people, including university students, tech-led startups, startup enthusiasts, and entrepreneurs. Each module had 20+ participants who committed to a 6-hour session every day.



6.1.2 OTTONOMO'22 Challenge

Overview

TiHAN and iTIC Incubator at IIT Hyderabad joined forces to foster innovation and support entrepreneurs in the field of Autonomous Navigation. Their collaborative efforts aimed to provide teams from around the world with access to a platform, institutions, and resources to address industry challenges. By engaging with industry problems, the organizations sought to facilitate solution identification and promote technological advancements in the Autonomous Navigation domains.

Problem Statements

1. Eye gaze detection solution for driver monitoring systems
2. Vision-based ADAS solutions for Indian use cases
3. Automation of forklift for material handling
4. Smart Surveillance & Patrolling using Autonomous Ground Vehicles
5. Security of Connected Vehicles
6. Open Challenge in areas of interest to TiHAN

Call For Applications

An open call for application for OTTONOMO'22 challenge was launched on February 1, 2022, with March 25, 2022, as the deadline to apply. A total of 45 applications were received during this time.

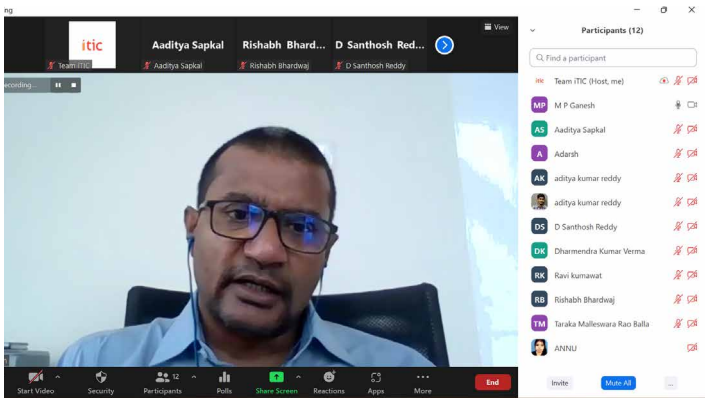
Outcome

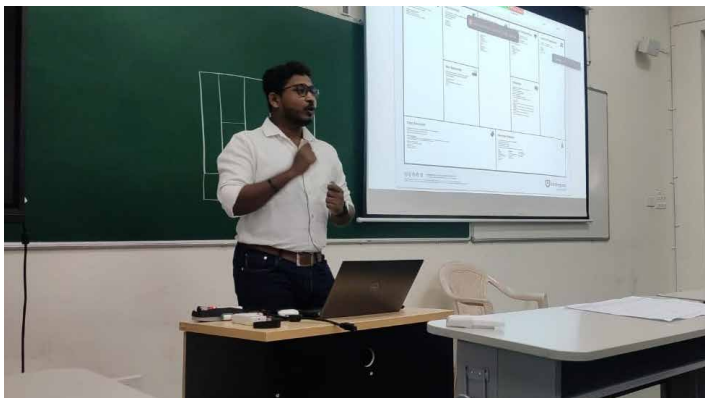
With 45 applications received, 9 teams were selected for a virtual bootcamp. The finale showcased 6 performing teams, with Rahul Dilare's team as the winner and Jerin Peter's team as the runner-up. The event focused on developing proof of concepts, providing cash prizes, AWS credits, and pre-incubation opportunities. OTTONOMO'22 exemplified the commitment to advancing the field and promoting collaboration between academia, industry, and startups.

6.1.3 Innovation Accelerator - TiHAN

Overview

The Technology Innovation Hub on Autonomous Navigation (TIHAN) and iTIC Incubator conducted a four-day hybrid program, “Innovation Accelerator”. Designed for researchers, academicians, and aspiring entrepreneurs, the program aimed to enable them to convert their research into commercially viable products.





Program Structure and Registration

Held from May 17 to May 20, 2022, the program saw over 50 registrations, with more than 30 attendees. The event was promoted on TiHAN’s and iTIC Incubator’s social media platforms, and registration was carried out via a Google form link.

Course Content and Activities

The course consisted of eight sessions spread over four days, taught by various mentors. The sessions covered key aspects of entrepreneurship:

1. LifeCycle of a Solution & Prototyping: Dhruv Gupta (Physical)
2. Types of Business Models: Keyur Punjani (Hybrid)
3. Branding and Storytelling in a Digital Era: Paritosh Sharma (Virtual)
4. Design Thinking: Anay Mashruwala (Virtual)
5. Business Model Canvas: Sagar Panchal (Hybrid)
6. Legal and Compliances: Prateek Tosniwal (Virtual)
7. How to Lead a Startup: Prof Ganesh (Virtual)
8. IPR for Startups: Anna Eswara Kumar (Virtual)

Outcome

Over four days, the participants immersed themselves in important entrepreneurship topics, each session marked by robust discussions and active participation. The diversity of the attendees added value to the conversations, leading to richer exchanges of ideas and perspectives.

Overall, the program achieved its intended goal of empowering attendees with a well-rounded understanding of the entrepreneurial journey. The success of the initiative signals a positive trend towards fostering an inclusive, innovation-driven environment.

6.2 Showcase Events

6.2.1 Innovation Day 2023

Overview

The Innovation Day event, held on January 7th 2023, provided a unique opportunity for innovators to showcase their work and be recognized for their ideas and innovations. The event aimed to foster collaboration, networking opportunities, and serve as a catalyst for new ideas and inspiration for future innovation. Additionally, it aimed to inspire the next generation by providing them with a learning experience and motivation to become an innovator.

At the start of the event, a ceremony was held in the auditorium in presence of guest of honours Dr. Srivari Chandrasekhar, the Secretary, Department of Science & Technology, Govt. of India, and Sri. Srikanth Velamakanni, the Co-founder, Chief Executive and Vice-Chairman of Fractal Analytics. Following the ceremony, book launch by Shri BVR Mohan Reddy took place in the auditorium. Innovation Day also presented the opportunity for startups and technology transfer ready innovations from the institute for exhibition. Attendees had the opportunity to view a variety of innovative displays on the TIP Lawns throughout the day. Additionally, registrants, invitees, and participants were treated to a lunch in the TIP Lounge.

Exhibition

The exhibition had 15 stalls for innovators, 15 stalls for startups, and 7 facilitators, that includes CFHE, TIHAN, TRP, ITIC, FABCI, E-CELL, and SRC. This provided a platform for exhibitors to showcase their innovations, products, and services to potential partners, investors, and customers.

Outreach and Promotions

The team utilized a multi-channel approach to reach their target audience and promote the event. Social media was one of the platforms used to reach a large number of startups and students. In addition, the team also reached out to industries by sending emails and making personal calls to the heads of companies. Team also reached out to colleges by sending emails and inviting faculty and students to attend the event.

Attendees

The team utilized a multi-channel approach to reach their target audience and promote the event. Social media was one of the platforms used to reach a large number of startups and students. In addition, the team also reached out to industries by sending emails and making personal calls to the heads of companies. Team also reached out to colleges by sending emails and inviting faculty and students to attend the event.

6.2.2 Nidhi Prayas Cohort 1 Demo Day

Every year iTIC selects around 10 startups under the Nidhi Prayas scheme at pre-incubation level. Startups under this scheme are onboarded at idea/PoC stage and are expected to build working prototypes at the end of 12 month program.

On August 17, 2022, iTIC organized Nidhi Prayas Cohort 1 Demo Day where the graduating startups showcased their prototypes in an open house format to IITH fraternity. The jury members also judged the startups' progress under Nidhi Prayas program. The Demo Day saw the participation of 50+ IITH guests including faculties, staff and students.

Startups showcased at Demo Day

- VR Smart Dental Implant
- Pulsexcel
- Affocuris
- Healer Hoodie
- Electra
- myUDAAN
- Ilenium AI
- BluPower
- Crystalball
- Uyirie Logics

6.3 Exhibitions

DefExpo 2022

DefExpo 2022, the largest-ever defence exhibition, highlighted the potential of India's defence industry as a sunrise sector for global investment. The event was held at Gandhinagar, Gujarat from October 18 to October 22, 2022, and witnessed unprecedented participation from over 1340 exhibitors, investors, start-ups, MSMEs, Armed Forces and delegates from various countries. The exhibition pavilion was dedicated to showcasing indigenous marquee products and featured various zones exhibiting cutting-edge technology.

Startups Exhibited

- Rovonize
- CoreIoT Technologies
- SPM India Ltd
- Wising Networks Pvt Ltd
- Veera Dynamics Dynamics LLP

E-Motorshow 2023

The E-Motorshow 2023 was held at the HITEX exhibition Centre in Hyderabad from February 8-10, 2023. This three-day event brought together startups, investors, designers, and entrepreneurs from various domains to showcase the latest developments in the electric vehicle (EV) industry.

Startups Exhibited

The E-Motorshow 2023 provided a platform for startups to showcase their products and services to potential investors and customers. A total of four iTIC associated startups were given an opportunity to exhibit in the same.

- Octarange Technology Pvt. Ltd.
- MyUdaan
- Deusexvolt Electric Pvt. Ltd.
- Adiabatic

Aero India Expo 2023

The Aero India Expo 2023 was held from February 13-17, 2023 at the Air Force Station, Yelahanka, Bengaluru. The event was a platform for innovators, startups, MSMEs, and coglomorates from the defence and aerospace industry to come together and showcase innovations.

Startups Exhibited

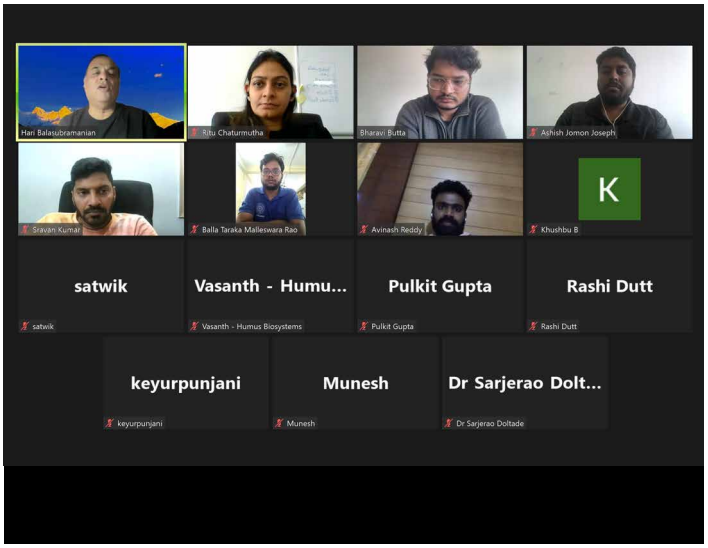
The event showcased six exceptional startups from defence domain. The participating startups were:

- Raphe mPhibr Pvt. Ltd.
- Veera Tacticals Dynamics LLP
- Qoptars Pvt. Ltd.
- CoreIOT Technologies
- SPM India Limited
- Uavio Labs Pvt. Ltd.

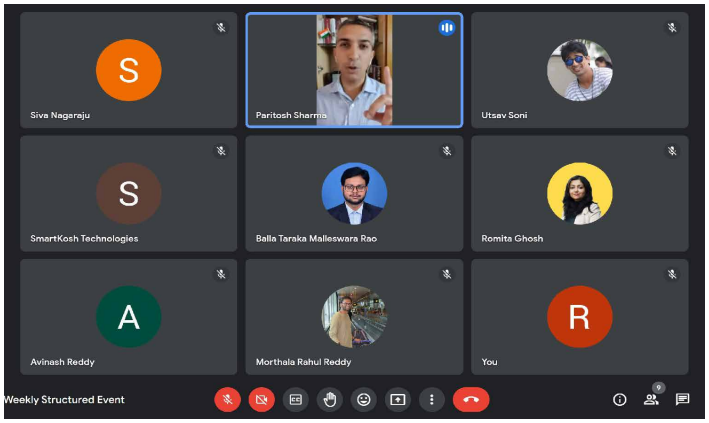
6.4 Mentorship Activities

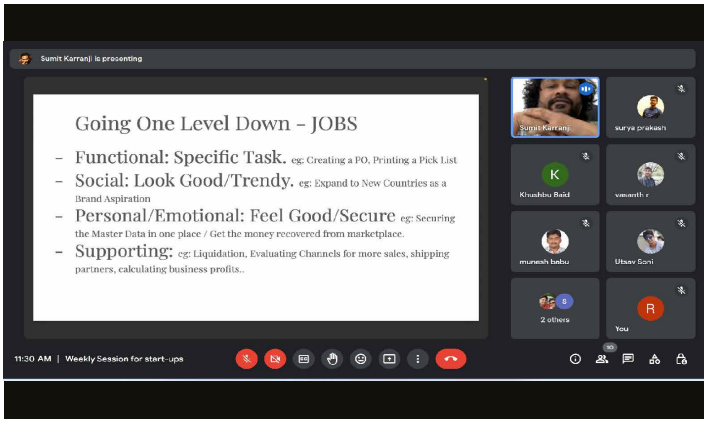
6.4.1 Mentoring Sessions

iTIC regularly hosts technical as well as business oriented mentorship sessions for the startups. A total of 35+ expert mentor sessions were arranged this year for startups. Few mentorship sessions are on a one-to-one basis whereas others are group mentoring. The mentor pool involves serial entrepreneurs, venture capitalists, angels, bureaucrats, thought leaders, CXOs, policy designers, and scientists from across the globe. Some of the mentoring sessions conducted by iTIC are mentioned below.



- Business Model Canvas by Anay Mashruwala
- Storytelling for Business by Paritosh Sharma
- Customer Acquisition Strategies by Sumit Karranji
- Investments and Fundraising by Hari Balasubramanian
- Case studies by Dhruv Gupta
- One to one sessions for Brand Strategy with Imran
- One to one sessions with Prof Mohan Sangeneni
- One to one sessions with CDM experts



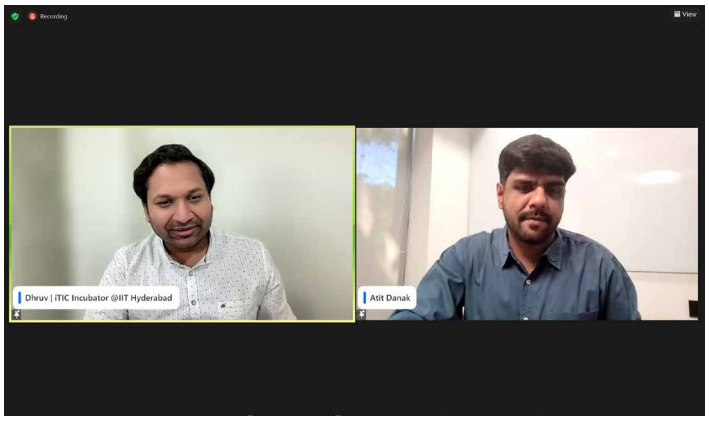


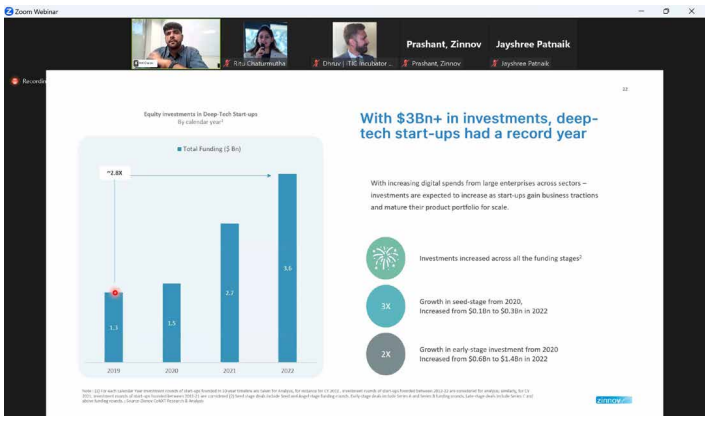
6.4.2 India Tech Startup Landscape Report | 2022 Edition

The Indian Tech Startup Landscape Report, created by Nasscom Zinnov, offers an in-depth analysis of the Indian Tech Startup Ecosystem, covering emerging trends and challenges. A debriefing session was hosted on March 23, 2023 by the iTIC Incubator at IIT Hyderabad and the Department of Entrepreneurship at IIT Hyderabad, featuring Mr. Atit Danak, Partner and Practice Head at CoNXT, Zinnov, as the keynote speaker and Mr. Dhruv Gupta, COO at ITIC, as the moderator. The virtual event attracted over 400 attendees from diverse domains, such as corporates, students, researchers, incubators, and other interested parties.

The report and debriefing session aimed to provide a comprehensive understanding of the Indian tech startup ecosystem, including its investment scenario, eminent deals and IPO listings, future growth prospects, and the role of academic institutions in contributing to the overall growth. The report highlights the need for policymakers and investors to address the challenges faced by startups to create a thriving ecosystem. The debriefing session provided attendees with valuable insights and an opportunity to engage in an insightful discussion on the Indian tech startup landscape.

Overall, the report and debriefing session will be helpful for startups, policymakers, investors, and other stakeholders interested in the Indian tech startup ecosystem.





6.5 Miscellaneous Events and Activities

6.5.1 SEMICON Roadshows 22-23

Overview

The Semicon Roadshow series is an initiative to sensitize engineering students and faculties towards the opportunities in the electronics and semiconductor industry in India. These events aim to raise awareness, provide insights, and facilitate networking and collaboration opportunities for attendees.

Semicon Roadshow initiative is a collaboration between iTIC and FabCI incubators sponsored by NXP semiconductors

Objectives

The aim of Semicon Roadshows is to achieve the following objectives:

- Raise awareness about the potential career opportunities available to engineering students and faculty members in the electronics and semiconductor industry in India.
- Provide attendees with insights into the latest technological advancements, emerging trends, and market demand in the industry.
- Facilitate networking and collaboration opportunities between students, faculty members, and industry professionals to foster partnerships, joint projects, and collaborations that can lead to new research opportunities and innovations.

Roadshow Details

A total of six Semicon Roadshow events were conducted at various educational institutions across India. These events provided a platform for attendees to listen to inspiring speaker talks, engage in informative panel discussions, and enjoy a high-tea. The events saw a massive turnout of over 1000+ students and 80+ faculties, with the panelists comprising industry professionals and college principals. Below mentioned are the collaborators partners and hosts for these six roadshows.

- VNR VJIET, Hyderabad
- IIT Patna, Patna
- Banasthali University, Jaipur
- MBCIE, Ludhiana
- BML Munjal University, Gurgaon
- GITAM University, Vizag

6.5.2 iDEX Roadshows 22-23

Overview

The IDEX Roadshows serve as a catalyst for promoting innovation and entrepreneurship in defence and aerospace domains. Organized by iTIC Incubator and iDEX, these roadshows offer a prominent platform for MSME industries and startups to converge and engage in insightful discussions. The event sets the stage for addressing problem statements within the Indian armed forces by DISC and Open challenges, ultimately contributing to the indigenisation of Indian defence.

Objective

The primary objective of the iDEX Roadshows is to sensitize the startups and MSMEs working in defence and allied sectors towards the challenges/problem statements launched by iDEX. The roadshow also facilitates meaningful interactions with personnel from Indian armed forces, iDEX leadership team and other defence stakeholders.

Roadshow Details

A total of four roadshows were conducted this year.

- Roadshow for DISC 6 and PRIME challenges in collaboration with T-Hub
- Roadshow for DISC 7 and SPRINT challenges at TIP, IIT Hyderabad
- Roadshow for DISC 9 challenges at TIP, IIT Hyderabad
- Roadshow for DISC 9 challenges in collaboration with GITAM Vizag

6.5.3 Entrepreneurs' Meet

iTIC regularly organizes informal Entrepreneurs' meet where founders from iTIC associated startups network, share their learnings, make new connections, and have some fun. This year iTIC organized 2 such meets.

The first meet for this year was planned in a boat at Lumbini Park, Hyderabad on April 30, 2022. The event saw presence of startup founders, delegates and other stakeholders of iTIC. A total of 60+ guests were present in this meet. The meet for startups included an introduction from each startup and a brief talk by Prof. Suryakumar S. iTIC team also launched the first version of Coffee Table Book which showcases startups supported till now in a summarized manner.

The second Entrepreneurs' Meet took place on January 22, 2023 at the Countryside Resort in Hyderabad. The event attracted over 50 guests and featured 30+ startups. iTIC team had the opportunity to get to know the startup teams more closely and each startup had the chance to interact with others, building relationships and sharing knowledge. The meet for startups included an introduction from each participant and a brief talk by Prof. Suryakumar S. After lunch, iTIC had organized fun and entertaining games for attendees to enjoy. The location also provided opportunities for attendees to explore and play various indoor and outdoor games.

6.5.4 Deep Engagement Program

iTIC in collaboration with SINE IIT Bombay under MeitY Startup Hub, organized Deep Engagement Program on March 15, 2023 that brought together 20 incubator representatives from G2 and G3 MeitY centers for a day-long event focused on establishing and sustaining successful incubator programs. The program comprised four sessions covering critical topics such as startup selection, due diligence, and incubation structures.

The event provided a platform for valuable insights and discussions among the incubator community, with speakers sharing best practices and policy interventions in academic institutions to build a startup ecosystem. Participants had the opportunity to exchange ideas on building startup pipelines, assessing startups, and supporting provisions for startups, including mentoring, labs, and fund disbursement.

6.5.5 Inauguration of Technology Innovation Park (TIP)

On 2nd July 2022, the Indian Institute of Technology (IIT) Hyderabad witnessed a momentous event, as the Hon'ble Minister of Education, Shri. Dharmendra Pradhan, inaugurated the Technology Innovation Park (TIP) facility. The inauguration ceremony was graced by the presence of Dr BVR Mohan Reddy, Chairman, BoG, IITH, and Prof B S Murty, Director, IITH. The TIP facility, which spans across a vast expanse of 1.5 lakh sq. ft., is going to host incubators at IIT Hyderabad, creating a supportive and nourishing environment for budding entrepreneurs in the field of technology. The TIP is conceptualised by University of Tokyo and built using fund support from JICA.

The event started at 10 am and continued till noon, during which couple of startups from iTIC and CfHE exhibited their work. The guests had the opportunity to interact with the startups and learn more about their innovative ideas.

In his address, Shri. Dharmendra Pradhan emphasized the significance of fostering a culture of innovation and entrepreneurship in the country. He lauded the efforts of IIT Hyderabad in setting up the TIP facility and providing a platform for the young and dynamic minds to realize their potential and contribute to the country's progress. Dr BVR Mohan Reddy, Chairman, BoG, IITH, expressed his delight and satisfaction at the completion of the TIP facility, which he believes will help in shaping the future of the Indian startup ecosystem. Prof B S Murty, Director, IITH, highlighted the various initiatives undertaken by IIT Hyderabad to support and encourage entrepreneurship and innovation among its students and faculty members. He expressed his hope that the TIP facility would serve as a catalyst in the growth of the startup ecosystem in the region and contribute to the nation's development.

6.5.6 iTIC Foundation Day Celebrations

As the iTIC family marked its 7th year of foundation on October 31, 2022, we celebrated this milestone with great joy and enthusiasm. The annual celebration took place at the TIP Building lawns, providing a platform for our startup founders, board members, and mentors to come together and network.

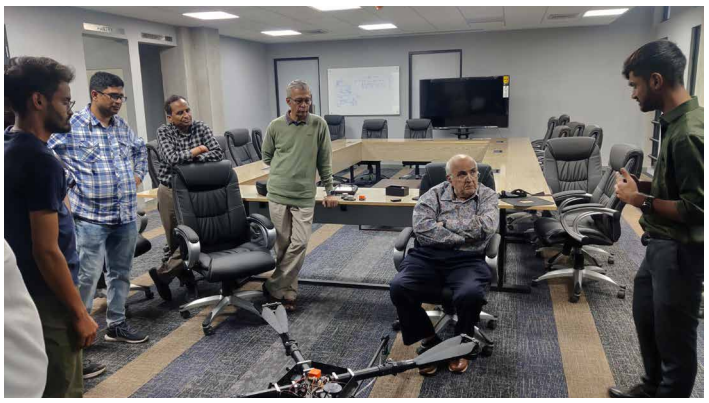
During the celebration, iTIC founding member Prof Venkatesham, previous Faculty-in-charge shared how iTIC was conceptualised and helped it grow in initial days. Prof Suryakumar then shared his vision for iTIC in coming years. Co-founders then shared their startup journey, highlighting the challenges they faced and the successes they achieved. This enabled everyone present to gain valuable insights into the startup ecosystem and learn from each other's experiences.

A speed dating game was organized between invited mentors and startups. It helped startup and mentor connect in a quick way, post which they carried the discussions over dinner. The celebration of our foundation day ended by lighting lanterns in the sky.

6.5.7 Delegation Visits at iTIC

iTIC regularly hosts people from varied domains to exchange the learnings as well as creative collaborative opportunities. Some of the delegates hosted by iTIC this year are captured here.

- Daikin team visiting iTIC to understand innovation activities and collaboration opportunities
- Tata Steel delegate visit for their Material Next 4.0 program outreach
- Visit by Mr Kanwal Rekhi and Raju Reddy from silicon valley startup ecosystem
- Rockwell Industries Ltd team interacting with startups for collaborative opportunities.
- Hexagon Capabilities Centre India for collaborative opportunities



7. Outcomes of 2022-23

Outcomes

During the period from April 2022 to March 2023, iTIC achieved numerous notable milestones. These include:

- The successful launch of the ABCD program, the celebration of Innovation Day, and participation in several exhibitions that led to increased exposure and visibility for our startups.
- Collaboration for Semicon Roadshows facilitated networking opportunities with other institutes and incubators on a national level.
- We successfully shifted our preferred areas from medtech to mobility, defense, and assistive technology, resulting in significant benefits.
- Social media presence experienced notable growth, enabling us to engage with a wider audience.

Events and Outreach

iTIC has built a wide follower base by implementing outreach strategies on multiple fronts.

- **Social Media:** Increased 2000+ followers on LinkedIn making a total of 4000+ followers till date.
- **Newspaper:** iTIC occasionally publishes advertisements in newspapers for inviting startup applications.
- **Emails:** Reached out to 10000+ unique stakeholders via email outreach
  Branding: After revamping the brand identity last year, iTIC launched Coffee Table Book for various stakeholders.
- **Sensitization:** Under Semicon and iDEX roadshows, iTIC reached out to 1500+ students/ aspiring entrepreneurs and 100+ faculties.
- **Exhibitions:** iTIC took part in 3 exhibits this year which saw a footfall of 5000+ people.

Startup Numbers

iTIC Incubator received a total of 250+ applications for multiple programs and accepted a total of **20** startups for the year 2022-23.

Below is the breakdown of active startups for the year 22-23 under each program:

- Incubation: 04
- Advance Incubation: 01
- NICE: 12
- TiHAN: 08
- NIDHI PRAYAS: 20
- MeitY TIDE 2.0: 03
- iDEX: 24

Fund Sanctioned

The funding sanctioned directly and indirectly (iDEX) for each program for this year is mentioned below.

- NICE - INR 1,19,20,000
- TiHAN - INR 50,00,000
- Nidhi Prayas - INR 90,00,000
- MeitY- INR 8,00,000
- iDEX- INR 41,00,00,000

A total of **INR 2.67 Crore** of financial aid was sanctioned directly to the iTIC startups via various programs like NICE, TiHAN, MeitY, and NIDHI PRAYAS.

Status on goals set for the year 2022-2023

Establish National and Global footprint

- **WIP:** iTIC Incubator at IIT Hyderabad has made significant strides in establishing both a national and global footprint. Recognized as one of the top 10 incubators in the country by independent media sources, iTIC is gaining recognition on a national scale.

Create an investment fund of iTIC

- **WIP:** In its quest for growth and sustainability, iTIC is actively pursuing the creation of an investment fund. Efforts are underway to secure support from government seed funds such as Startup India Seed Fund and Nidhi SSS, among others, to bolster its financial resources.

Implement future ready data management systems

- **WIP:** The organization is also focused on implementing future-ready data management systems. Currently, iTIC's team leverages G-Suite products for seamless collaboration and relies on Slack for internal communication, as well as Trello for workflow management. Future plans include the development of a custom ERP system to further enhance operational efficiency.

Improve the iTIC knowledge repository

- **WIP:** iTIC is committed to enhancing its knowledge repository, regularly adding new and relevant books for entrepreneurs, creating essential templates, and curating extensive databases of investors and vendors.

Improve the startup pipeline

- **WIP:** To strengthen the startup pipeline, iTIC has conducted numerous events across different regions of the country, aiming to sensitize startups and foster a robust ecosystem. The organization's active presence on social media continues to attract increasing attention and engagement.

Prepare the SOPs for the proper utilization of the upcoming infrastructure

- **WIP:** In preparation for the optimal utilization of upcoming infrastructure, iTIC is in the process of drafting SOPs, ensuring that the space is utilized efficiently in line with the incubator's requirements.

Create methods of long term sustainability for iTIC

- **WIP:** In pursuit of long-term sustainability, iTIC has initiated the process to establish an Endowment fund.

Strengthen the network of vendors, suppliers, and testing and validation service providers

- **WIP:** iTIC is actively working to strengthen its network of vendors, suppliers, and testing and validation service providers. New partnerships have been formed, and rate contracts have been initiated with some of these key collaborators, reinforcing iTIC's commitment to providing valuable resources and support to its startups.

8. Roadmap 2023-24

iTIC is gearing up for the future by working closely on the development of new infrastructure facilities. With plans to expand its physical capacity to accommodate over 100 startups, iTIC is committed to enhancing its capabilities and is making strategic investments this year to prepare for upcoming challenges. Simultaneously, iTIC is dedicated to upgrading itself to offer cutting-edge amenities and support the entrepreneurial ecosystem at IITH.

Goals

- Roll out pan India BUILD project for student entrepreneurs.
- Organise international programs for market access and soft landing for startups.
- Enhance knowledge repository and add international resources.
- Initiate Acclimatization BootCamp for Defence Cohort 2 with better support systems and more knowledge partners.
- Form an investment fund.
- Building a robust investment support system
- Development of new infrastructure and lab facilities.

9. Conclusion

In the fiscal year 2022-2023, iTIC has demonstrated substantial growth in its operational and internal structural maturity, prioritizing quality over quantity. iTIC extended financial support totaling INR 2.7 Crores to startups across various schemes. This year, the number of startups benefiting from iTIC's support has surpassed 125. The startups in return, have generated a collective revenue of more than INR 1200 Crores.

These accomplishments are a testament to iTIC's robust mentorship network and its dedicated support ecosystem designed to nurture these startups. Furthermore, iTIC has actively engaged with over 2000 aspiring entrepreneurs on a national scale through various events and activities.

In the upcoming year, 2022-23, iTIC is committed to enhance the quality of its services for startups while simultaneously working towards increasing the number of beneficiaries. It remains steadfast in pursuing additional goals it has set for itself.

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Annual Report 2022-23