



IARE

Institute of Aeronautical Engineering

An **Autonomous** Institute
NAAC Accreditation with 'A' Grade
Accredited by **NBA**
Permanent Affiliation Status from **JNTUH**

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IARE STSP

TRANSFORM ENGINEERING
IDEAS INTO AN AMAZING START-UP



ABOUT IARE

Institute of Aeronautical Engineering (IARE), Hyderabad was established in the year 2000 by a devoted group of eminent professionals and industrialists having a long and outstanding experience in educational system with a mission 'Education for Liberation'. It is the first institute to start the B.Tech program in Aeronautical Engineering in the state of Telangana and has gradually transformed itself into a premier integrated multi disciplinary technological institute.

The institute has been consistently maintaining excellent results and is a gateway to success providing quality education, while nurturing students to gain competitive edge over others. IARE believes in setting audacious goals and infusing fresh ideas to achieve the same. The institute intends to promote collaborative industry relevant projects, R & D consultancy and Entrepreneurship to raise the overall academic standards while building stronger Industry-Institute relations. The institute strives to translate its vision into reality and achieve the desired goals.

To promote incubation centres, start-ups and entrepreneurship, IARE signed an MOU with

National Research Development Corporation (NRDC) to cooperate for the development of technologies and their successful transfer to industry for commercial and socio economic benefits. The students are provided with avenues to showcase their talents and innovative skills. They also participate in various national level engineering competitions like Baja SAEINDIA, Supra SAEINDIA, Go-kart, ADC championships to name a few and have made their mark by winning prizes and ranks. They participate in national and state level project competitions as well as conferences to share their research findings. Students have represented the institute at international level as well.

With its belief in holistic approach to excellence, the institute offers distinct Teaching-Learning Process to push the boundaries of human knowledge. The Institute excels in supporting "Research initiatives among students and faculty members" and "Entrepreneurship drive among students" which makes IARE as one of the best institutions to enhance the performance of the students.



START-UP INCUBATION CENTRE & BUSINESS INNOVATION PARK

STSP 01	STSP 02	STSP 03	STSP 04
"Success is not just about getting a degree, but developing the critical thinking and leadership skills to support a successful career".	"It's about learning skills for your chosen life, not just a job".	"Transform engineering ideas into an amazing start-up"	"Succeed in College Succeed in Life"

ABOUT IARE-STSP

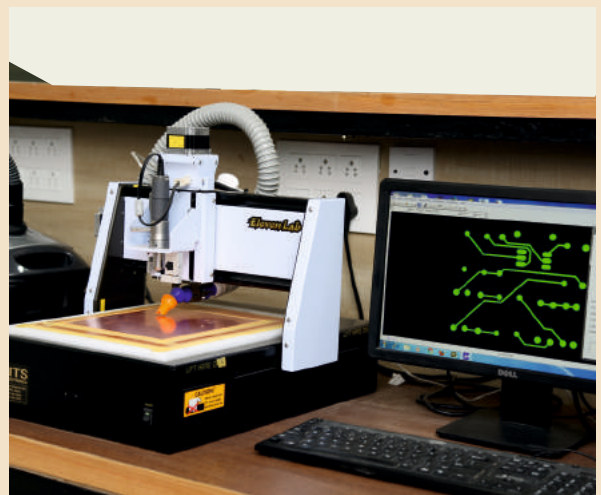
The Institute of Aeronautical Engineering, Hyderabad runs a Science & Technology Start-Up Park (STSP), a technology business incubator facility to support start-ups in the areas of Information Technology, Electronics and Mechanical engineering enabling "Smart Manufacturing via the Make in India Initiative". It aims at offering students with innovative ideas and an opportunity to become entrepreneurs. Promising candidates, who have exciting ideas, can start right from the first year.

IARE-STSP provides a suite of services for the benefit of start-ups. The wide range of services include infrastructure to incubation support, technology support to mentoring, seed fund support to marketing are provide by IARE-STSP.

A dedicated body STSP encourages the students to develop sustainable business ideas and power through the initial stages for a profitable business venture.

The entire process, from inception to incubation and finally execution is monitored under the able guidance of industry experts and faculty members. Having express expertise in engineering and management to its advantage, the institute has been able to rise to the occasion and afford students with the necessary inputs to carry forward their innovative ideas into a reality.

This centre provides physical infrastructure and support system necessary for business incubation activities for networking them with seed funders, angel investors and venture capitalists.



START-UP INITIATIVES

- To prepare students gain benefits from Gol's 'Start-Up India' programme.
- To encourage Science and Technology students to choose entrepreneurship as their careers.
- To motivate students to convert their Detailed Project Reports (DPRs) and projects into viable B-plans.
- To create a common virtual platform and ask institutions to submit students' projects on this platform to make the project nationwide.
- To inculcate social responsive behaviours among students aspiring to launch Start-Ups.
- To offer students, from rural regions of India, training in business opportunity identification in their local areas.
- To orient students as to how they can conceptualize social business StartUps that will address social issues.
- To provide handholding support to students for launching their Start-Ups during the entire course of their study.
- To equip students with the necessary skills for managing their business enterprise.

IARE offers a number of ways for students to get involved in enterprise. Our Student Entrepreneurship Support Service is a one stop shop for advice about starting up a business and keeping it going – this is available to students before and after graduating. We also organise enterprise internships, giving students the chance to get involved in the workings of a small start-up.

The job at the Entrepreneurial Cell entails assisting students with:

- Developing business plans
- Testing their viability
- Entering inter collegiate competitions
- Guidance through the process of perfection to the execution of the business plans
- Preparation of project reports and presentations for venture capitalists and evaluators
- Lending a hand with feasibility studies, market research, market and trend analyses, industry analysis, assessing economic viability, product/idea design, overcoming developmental impediments and other related activities
- Sourcing Funds



NURTURING START-UPS, FOSTERING GROWTH...



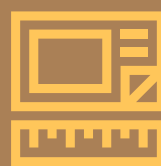
**INCUBATION
SUPPORT**



**INNOVATION
SUPPORT**



**FUNDING
SUPPORT**



**PROTOTYPE
DEVELOPMENT**



**MENTORING
SUPPORT**



**START-UP
BOOTCAMPS**



INCUBATION SUPPORT

IARE-STSP facilitates entrepreneurs in converting the idea into a prototype and takes it the proof of concept stage.

Once the prototype is proven/ the proof of concept is established, small volume production

can be carried out within IARE-STSP premises. Support extended to start-ups

- ❖ Innovation fund support
- ❖ Product development
- ❖ Infrastructure support

- ❖ Seed fund support
- ❖ Hardware & Software support
- ❖ Connectivity
- ❖ Testing
- ❖ Trial and Test Marketing
- ❖ Filing of Patents

IARE-STSP had created the incubation facility in the areas of Mechanical | Information Technology | Electronics

IT Incubation Centre

It has been established to nurture the new ventures in the area of Information Technology. The incubation centre focuses on supporting the start-ups in the areas of IOT and Applications Cloud Computing, Cyber Security & Networking, Big Data & Hadoop, Machine Learning and Artificial Intelligence.

The facilities include:

Equipments- High end Dell Computers and Rack Servers with i5, i7 Processors, Cisco networking switches.



SOFTWARE Eclipse | IBM Watson Analytics | Rational Rose | Rational Functional Tester | NETBEANS 7.X with JAVA 7
Oracle | Informatica | Clementine | Amazon and Aneka Cloud | Python, Node.JS | Angularjs

Mechanical Incubation Centre



IARE-STSP has created the advanced machining facilities such as CNC Vertical Machining Centres CNC Turning Centre, High Power Vertical Universal Milling and Planar Milling Machines, Trinocular Microscope for undertaking industrial consultancy and help new start-ups.

The facilities include

Equipments: Advanced Metrology Equipment like Tally Surf –Surface Roughness Measurement, Micro Hole Surface Finish Tester for Injection Nozzle, Grade Surface Plate, Computerised Universal Testing Machine, 3D Printing Machine, 6 Axis Robotic Arm, Industry Standard Planning and Milling Machine, Low Speed Subsonic Wind Tunnel, Micro Gas Turbine, 6 Axis Robotic Arm.

SOFTWARE Catia | Ansys | Solid works | Uni-Graphics
Autodesk-Fusion 360 | Iron CAD | CADEM | Robo Aristo Sim
MATLAB MSc Nastran | MSc Adams | LabVIEW

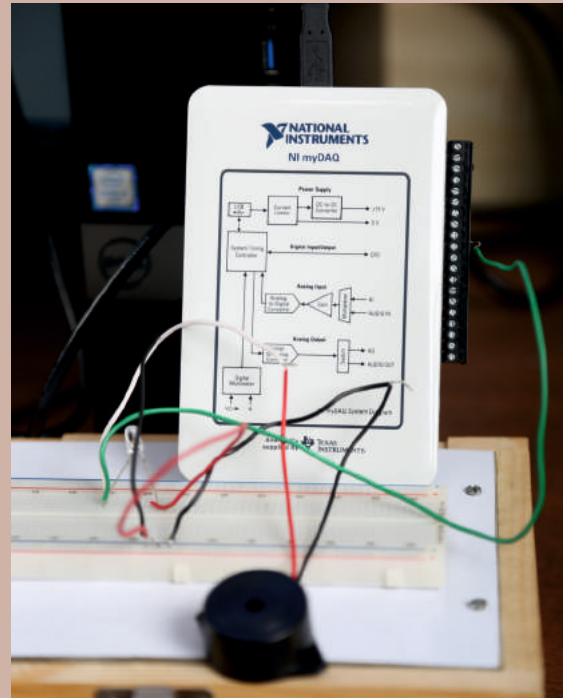
Electronics Incubation Centre

It has been established to nurture the new ventures in the area of Electrical and Electronics. The incubation centre focuses on supporting the start-ups in the areas of Embedded Systems and Microsystems and VLSI.

The facilities include:

Equipments- PCB Design and Fabrication, Digital System Design, NI Instrumentation, Embedded Systems, Digital Signal Processing, VLSI Design.

SOFTWARE NI LabVIEW | Xilinx | Keil | Cadence | Multisim
| Software Defined Radio | Matlab | Mi-Power | PSCAD
IoT | Raspberry Pi | Arduino | Siemen



**IARE
STSP**



PROGRAMMES

Supported by NSTEDB, DST, and Govt. of India.

NIDHI- Promoting & Accelerating Young & Aspiring Innovators & Startups

Funding for innovations upto Rs. 20 lakhs per innovation
Hardware innovations / startups

NIDHI- Entrepreneur In Residence [EIR]

Fellowship of Rs. 20,000 per month or one year sector agnostic

Seed Fund Support Scheme

Debt option: upto Rs. 50 lakhs, 5.0% interest rate repayment period 5 years
Equity option available

STARTUP 360 -A BOOTCAMP FOR STARTUP FOUNDERS

What: 25 day intensive mentorship oriented bootcamp
When: Flexible time schedule everyday
For whom: Innovators - startups - aspiring entrepreneurs

Technopreneur Promotion Programme [TePP]

Technopreneur Promotion Programme [TePP] is India's largest network program supporting independent innovators. TePP provides Grants, Technical guidance and Mentoring support to independent innovators. The purpose of this support is to enable innovators emerge as entrepreneurs by inculcating their ideas and enterprise.

Phase I

Micro Technopreneurship Support
(Max. Rs. 75,000/-)
TePP Project Fund
(Max. Rs. 15.00 lakhs)

Phase II

(After successful completion of phase-1)
Supplementary TePP Fund
(Max. Rs. 7.50 lakhs)
Seamless scale up support
(Max. Rs. 45.00 lakhs)

Networking

IARE-STSP believes in the power of networking to promote entrepreneurship and has established strong relationship with agencies promoting entrepreneurship. These include **DST, DSIR, MSME, NRDC, National Entrepreneurship Network, NAL, MCEME**



Entrepreneurship Promotion

IARE-STSP actively involves in promoting the culture of entrepreneurship & innovation to various stakeholders in the region. The initiatives include

- [Entrepreneurship Week-Annual event in association with NEN](#)
- [My Idea Programme- The idea competition](#)
- [Support to student projects](#)
- [Entrepreneurship Awareness Camps](#)
- [Faculty Development Programmes.](#)

Projects and Consultancy

IARE-STSP undertakes Projects/ Consultancy assignments in the areas mentioned below:

- Development of new technologies / products with focus on futuristic ideas
- Technology studies
- Market research
- Techno economic feasibility report
- Industry-oriented analysis / studies





It's our time to give
life to earth

Help Earth.
Save yourself



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