



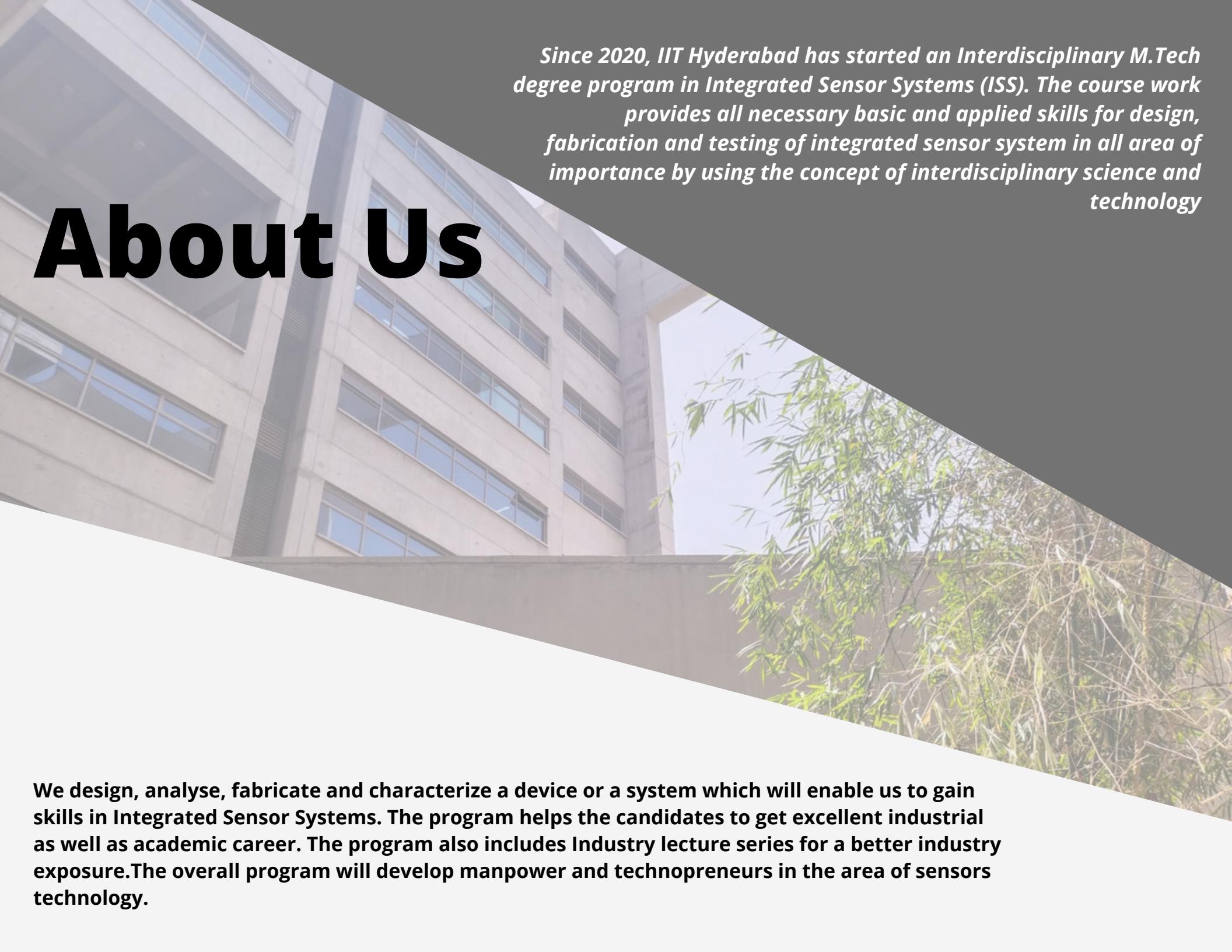
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad



PLACEMENT BROCHURE

INTEGRATED SENSOR SYSTEMS

2022-23



Since 2020, IIT Hyderabad has started an Interdisciplinary M.Tech degree program in Integrated Sensor Systems (ISS). The course work provides all necessary basic and applied skills for design, fabrication and testing of integrated sensor system in all area of importance by using the concept of interdisciplinary science and technology

About Us

We design, analyse, fabricate and characterize a device or a system which will enable us to gain skills in Integrated Sensor Systems. The program helps the candidates to get excellent industrial as well as academic career. The program also includes Industry lecture series for a better industry exposure. The overall program will develop manpower and technopreneurs in the area of sensors technology.

Why Integrated Sensor Systems?

- The highest teaching standard with outstanding curriculum, dedicated and experienced professors with modern lab facilities..
- Practical exposure in the applications of Sensor Networks, Machine Learning, IoT based sensor development, photodetectors, embedded systems, analog and mixed signal systems
- Industry Lecture Series: Scientists and Industry experts with education and training from the best faculties are invited to expose the students to cutting edge R&D activities..



Degrees Offered

M.Tech Teaching Assistant (2 Years)

M.Tech Research Assistant (3 Years)

M.Tech Self/Industry Sponsored (2 Years)

Courses Offered

Core Courses

Embedded Programming

Intelligent Signal Processing Using AI/IoT

Circuits and Packaging

Fabrication Technology and Characterization

Smart Materials and Transducers

Physics of Low Dimensional Systems and
Quantum Devices

Computational Modelling Techniques

Industry Lecture Series

Elective Courses

Analog IC Design

Digital IC Design

Mixed Signal Circuit Design

IC for Wireless Communication

Nanoelectronics Principle and Devices

3-D Printed Sensors

Semiconductor Devices and Modelling

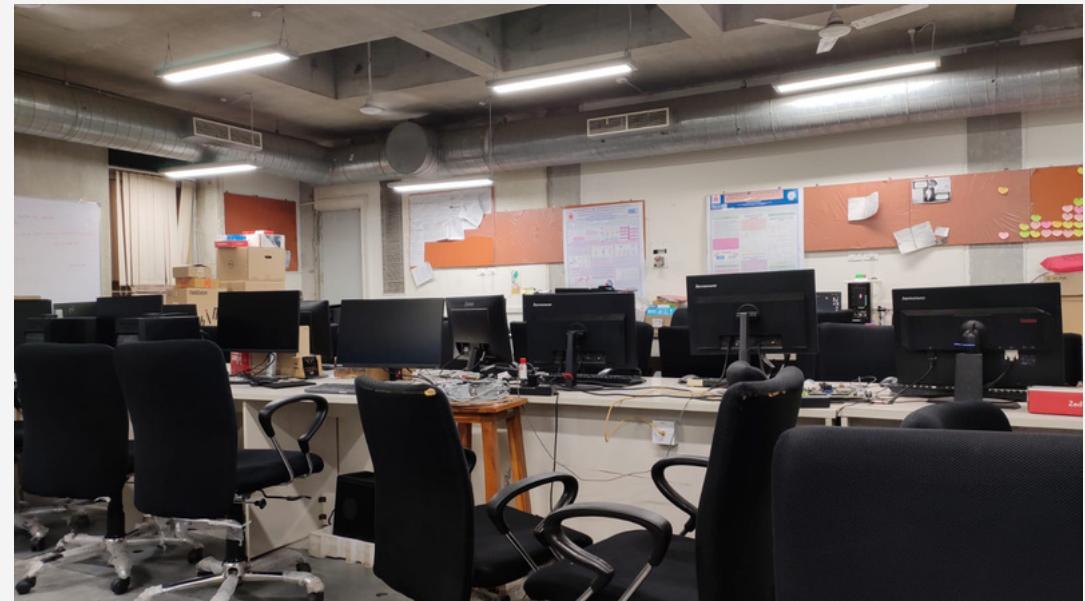
Ongoing Projects

- Computer Vision, Machine Learning and AI applications
- Sensor Systems
- MEMS Accelerometer & Gyroscope
- Autonomous Vehicles & V2X Communications
- ASIC/SoC Design
- Analog/RF Design for Wireless & IoT Applications
- 3-D IC Fabrication
- Nano-scale device fabrication

Lab Facilities

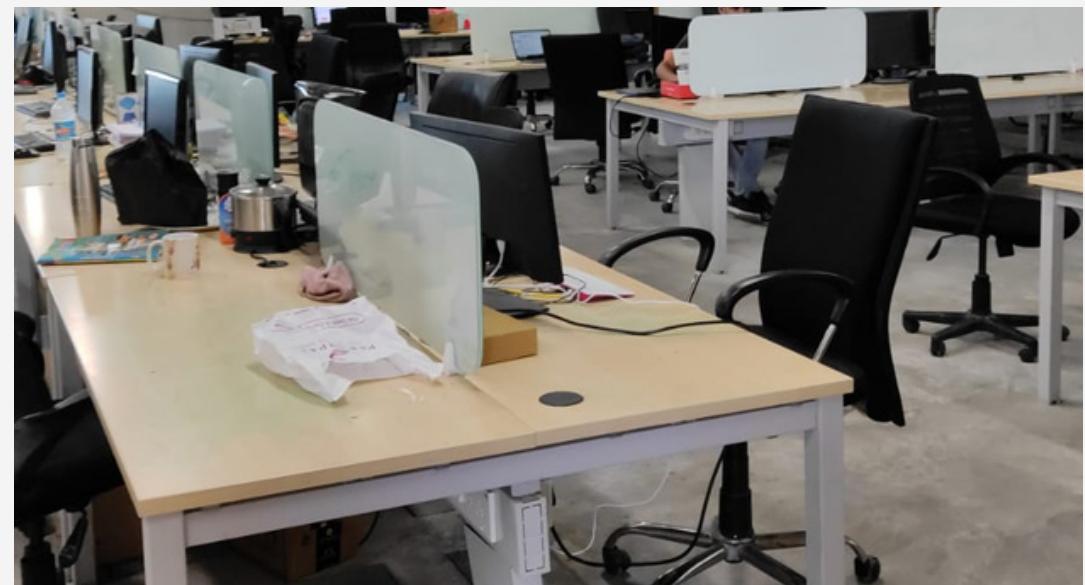
Advanced Embedded System and IC Design Lab

All necessary industry standard EDA tools for the complete VLSI design and verification flow from RTL design to complete back-end suite up to GDSII. High-end FPGA including XILINX Virtex-7, Kintex-6, Zed boards, Advanced Micro-controller kits, ARM Embedded kits, High-end Servers, world-class storage, and high-class work-stations



Design of Analog/RF/Mixed Integrated Circuit Lab

This lab allows students to work on Analog and RF projects right from designing specifications till the tape out. The lab has strong tie-up with semiconductor foundry like TSMC, SCL, UMC for the fabrication part.



Lab Facilities

Flexible Electronics and Nano Devices Lab

This lab works on Flexible and wearable nano-electronics; Flexible Bio-electronics; Lab-on-a-Chip; Nanomaterials based devices (Transistors, Photodetectors, Sensors)



Nano-X Clean Room and Characterization Lab

Clean room is for fabrication of micro and nano devices. Students work on fabrication of antennas, sensors and MEMS devices and for characterization of IITH developed devices we have IR characterization setup, electrical characterization, SEM and TEM.



Lab Facilities

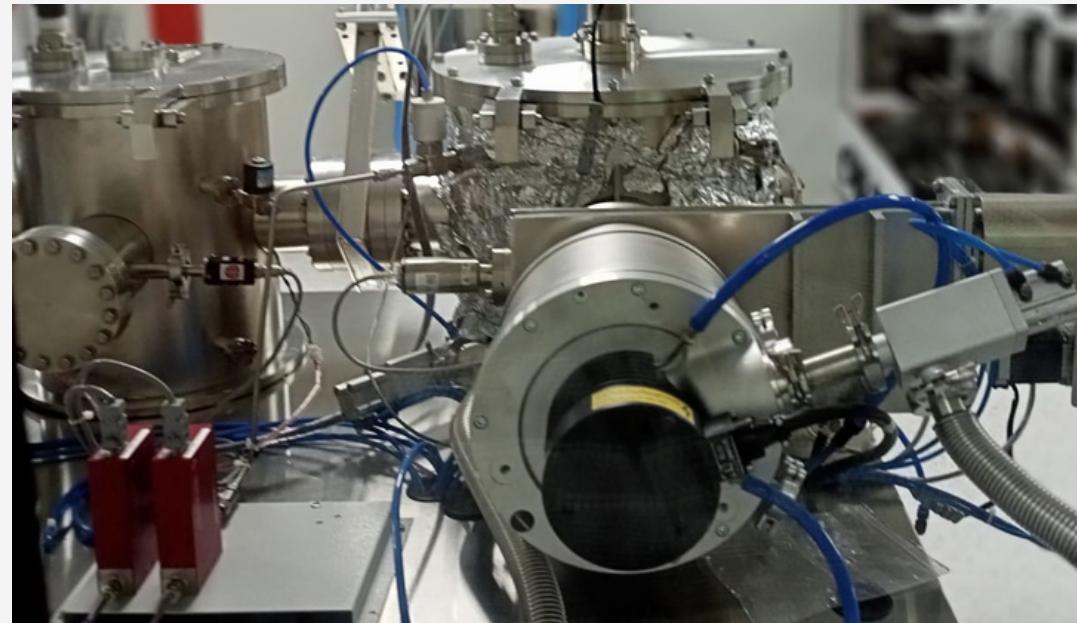
Thin Film Devices Lab

The lab has the Glove box facility where u can do deposition of thin film materials using both sputtering and thermal evaporator. Currently the lab is used for fabrication of organic solar cells where the organic material is deposited in the nm range thickness



MEMS & Micro/Nano System Lab

This lab allows students to have research on areas like MEMS Microelectronics technology, Silicon Micromachining, Anodic Oxidation, IR Detector, Membsbased bio/chemical sensor, Inertial sensor, Thin films for MEMS



Students



Rajesh Malladi



Shikari Sriker



Debangana Dutta



Rehana Sultana



Himanshu Yadav



Piyush Pushker



Mohit Gaur



Sunni Sagar



Nikhil Lohar



Poonam Kumari



Amreen Kaur



Nitish Pani



Hershitha Shukla



Abhinav Pubbi



P V Aishwarya



Krunal Badlani



Vinayak



Sahadev Matcha

Mentors



Dr. Naresh Kr
Emani



Dr. Ashok Kumar
Pandey



Dr. Amit Acharyya



Dr. Ashudeb Dutta



Dr. Abhishek
Kumar



Dr. Shishir Kumar



Dr. Gajendranath
Chowdhury



Dr. Arabinda
Haldar



Dr. Falguni Pati



Dr. Prem Pal



Dr. Viswanath
Chinthapenta



Dr. Siva Vanjari



Dr. Shourya Dutta
Gupta



Dr. Shiv Govind
Singh



Dr. Surya
Jammalamadaka



Dr. Sushmee
Badhulika



Dr. Saswata
Bhattacharya



Dr. Ranjith
Ramadurai

Mentors



Dr. P. Rajalakshmi



Dr. Kaushik Nayak



Dr. Jyotsnendu Giti



Dr. Jyoti Mohanty



Dr. Suresh Kumar
Garlapati



Dr. Chandrasekhar
Murapaka



Dr. Bhabani
Shankar Mallik



Dr. Chandrasekhar
Sharma



Dr. Aravind Kumar
Rengan

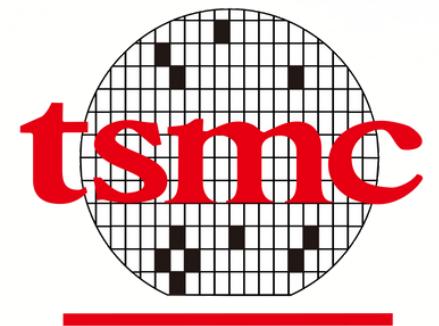


Dr. Suhanya
Duraiswamy

Past Recruiters



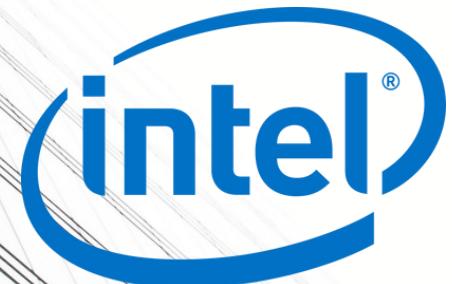
Honeywell



Qualcomm



SEDEMAC™



Contact Us



Rajesh Malladi

is21mtech11002@iith.ac.in
Mobile-(+91)9704853755



Sriker Shikari

is21mtech14009@iith.ac.in
Mobile-(+91)9494449021



Debangana Dutta

is21mtech14001@iith.ac.in
Mobile-(+91)8961518603



Mohit Gaur

is21mtech14003@iith.ac.in
Mobile-(+91)7014396299

Rehana Sultana

is21mtech14006@iith.ac.in
Mobile-(+91)9088035393



Himanshu Yadav

is21mtech11003@iith.ac.in
Mobile-(+91)9695117664



Sunni Sagar

is21mtech11005@iith.ac.in
Mobile-(+91)9718839922



Piyush Pushker

is21mtech14012@iith.ac.in
Mobile-(+91)9971770277



Contact Us



Dr. Naresh Kr Emani

Program Co-ordinator
naresh@ee.iith.ac.in



Dr. Ashudeb Dutta

Faculty Advisor for Placements
asudeb_dutta@ee.iith.ac.in



Dr. Abhinav Kumar

Faculty In Charge for Placements
fic.ocs@iith.ac.in

Kindly register through our
Office of Career Services(OCS) Portal

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



For more info:

<https://iss.cip.iith.ac.in/>