

TIH Foundation for IoT and IoE at IIT Bombay Organizes



Introductory Course on IoT

Course Curriculum

Module 1: IoT-system introduction, fundamentals, benefits/ challenges, architecture, applications, case-study

Module 2: Sensors and actuator interfaces, signal conditioning, read-out circuits, signal processing

Module 3: Networking and cloud computing in IoT, IoT network protocols like MQTT/ HTTP, wireless communication, IoT security and privacy

Module 4: Data analysis for IoT-specific use cases, computing, and data handling

Module 5: Industry expert session on recent advancements in IoT

Lab Sessions: Introduction to IoT-kit, interfacing sensor, ADC, connectivity of IoT-CPS system with cloud and control using dashboard, send/ receive data to server, data Analysis. Labs will be conducted using hardware system consisting of 32-bit dual core/ Arm cortex M4 microprocessor and Wi-Fi network processor. Programming skills include exposure to various IDEs like CCS/ Energia/ Thonny Python IDE and programming languages like Embedded C/ Javascript/ RedNode/ Python, APIbased programming, dashboard designing, etc.

The course content will be delivered by experienced faculty of IIT Bombay and Industrial Experts in the domain of IoT.

20% Discount for IITB students/faculty/staff

Course Dates:

Batch 1: June 13 - June 18, 2022 Batch 2: June 20 - June 25, 2022 Batch 3: July 04 - July 09, 2022

Please note that the content will be similar in all the three batches

Mode: Offline/ In-person in LC002, Lecture Hall Complex, infinity corridor, IT Bombay, Powai, Mumbai - 400076

Sessions Schedule: 9:00 am - 6:30 pm BT

Registration Link & Fee:

https://www.tih.iitb.ac.in/iot-course/

Fee:Rs. 10,000/-(Inclusive of GST)

Registration fee includes participation in all theory and sessions, a kit for experiment purposes (only during lab sessions), course material, welcome kit, tea/ coffee and lunch for the course

Participants must make their own arrangements for stay.

Last Date to

June 9, 2022



Scan to Register

Contact Details:

TIH Foundation for IoT and IoE 3rd floor of Monash Building, IIT Bombay Campus, Powai, Mumbai - 400076, Maharashtra

https://www.tih.iitb.ac.in/ email:iotcourse@tihiitb.org