

About SENSE:

SENSE at VIT was established for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. The school has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, Embedded, Sensors and Nanotechnology. Faculties are actively involved in R&D activities and are working on research projects funded by government organizations like DRDO, ISRO (RESPOND), and DST.

About the event:

This hands-on workshop provides participants with practical experience in building secure IoT communication systems using Raspberry Pi. The sessions cover IP-based communication through tunneling techniques and MQTT broker configuration for reliable data exchange between IoT nodes. The workshop is designed to equip students, researchers, and faculty with essential skills in IoT networking, edge computing, and secure communication protocols.

Course Content:

- Introduction to Raspberry Pi
- Raspberry Pi Setup and Configuration
- IP Tunneling for Secure Communication
- MQTT Protocol Fundamentals
- MQTT Broker Configuration on Raspberry Pi
- Node-to-Node Data Communication Using MQTT
- Hands-on Implementation of Secure IoT Networking

Resource Person:

Dr Ganesh Prabhu,
Embedded-Firmware Engineer,
Ciyes Systems Pvt Ltd

Eligibility: The training program is open to Research Scholars and UG/PG students.

Registration Fee:

Rs.300 + 18% GST

Registration: <https://events.vit.ac.in/>

Advisory Committee:

Dr. Jasmine Pemeena Priyadarisini

Professor and Dean,
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**Industry Academia
Conclave'26**



**Hands-on Workshop on
Building Secure IoT
Communication Using
Raspberry Pi**

7th September, 2026

Organized by

**Department of Communication
Engineering**
School of Electronics Engineering
SENSE