



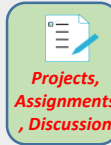
2-Days Offline Workshop on Internet of Things (IoT)



Highlights



Course
Completion
Certificate



Projects,
Assignments
, Discussion



Experts led
Training



10+ hours
Offline
training



Free Registration

Limited seats, nominated by the Director/
Dean/ HOD of affiliated colleges of AKTU.
Link shared with Director for Nomination (2
students per college).

<https://cas.res.in/workshopreg.html>



Scheduled 7th – 8th April 2022

Eligibility: B.Tech. 4th year students of any branch

Prerequisites: None **Mode:** Offline

Number of Seats: 30 on FCFS basis

Contents

- Introduction to Wireless Sensor Networks, Applications of Wireless Sensor Networks
- Introduction to Internet Of Things
- Introduction to IEEE 802.15.4
- Introduction to SENSEnuts, Applications of SENSEnuts Platform, Directory Structure of SENSEnuts setup, Code Structure of SENSEnuts platform, Libraries and their functionalities, Introduction to SENSEnuts GUI and application code structure
- Compiling application codes, Programming methodologies and coding guidelines
- Multi hop scenario using MBR routing protocol and LBR routing protocol

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2-Days Offline Workshop on Internet of Things (IoT)

7th – 8th April 2022

AGENDA

DAY 1: 7th April 2022 10 AM – 5 PM

- Introduction to Wireless Sensor Networks
- Applications of Wireless Sensor Networks
- Introduction to Internet Of Things
- Introduction to IEEE 802.15.4
- Introduction to SENSEnuts
- Applications of SENSEnuts Platform
- Directory Structure of SENSEnuts setup
- Code Structure of SENSEnuts platform
- Libraries and their functionalities
- Introduction to SENSEnuts GUI
- Compiling application codes
- Programming methodologies and coding guidelines
- Introduction to SENSEnuts application code structure

DAY 2: 8th April 2022 10 AM – 4 PM

- Implementation of SENSEnuts Demos
- LED Blinking
- Reading sensor values, wireless broadcast
- Multi hop scenario using MBR routing protocol
- Multi hop scenario using LBR routing protocol
- Editing the existing application codes and implementing the changes
- Creating custom Libraries
- Adding new window in GUI
- Creating new APIs
- Adding features to existing libraries for PC communication
- Guidelines for connecting additional hardware (sensors/LCD) with SENSEnuts Radio Module
- Hands On, Queries

