CENTRE OF EXCELLENCE (CoE) IN EMBEDDED SYSTEMS & IoT TECHNOLOGIES

Projects

The Centre actively promotes innovation through student projects, major projects, and industry consultancy assignments in Embedded Systems and IoT Technologies.

Inauguration speech by Dr. R. Radhakrishnan, Principal

Student Mini Projects

- Smart Home Automation System
- IoT-Based Weather Monitoring System
- Smart Irrigation System
- RFID-Based Attendance System
- Industrial Temperature Monitoring System
- Smart Street Lighting System
- IoT-Based Water Level Indicator
- Smart Parking Management System
- Home Security & Intruder Alert System

- Digital Notice Board using IoT
- Smart Gas Leakage Detection System
- IoT-Based Soil Monitoring System
- Automatic Plant Watering System
- Energy Consumption Monitoring System
- IoT-Based Fire Detection & Alert System
- Smart Dustbin with Level Detection
- Smart Traffic Signal Controller
- Remote Appliance Control System
- Smart Power Saving System
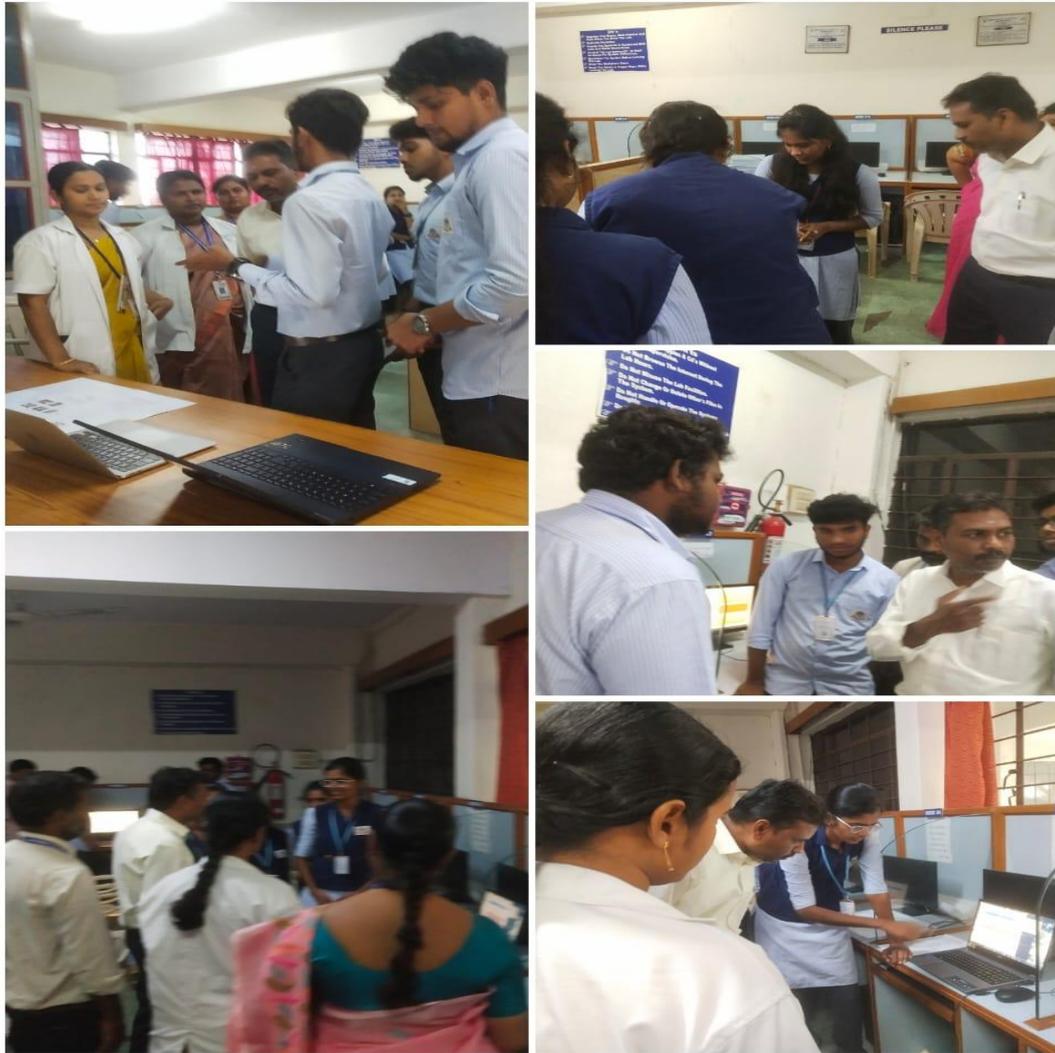- IoT-Based Air Quality Monitoring System

Major / Final Year Projects
- AI-Enabled Predictive Maintenance System
- IoT-Based Smart Energy Meter
- Real-Time Environmental Monitoring System
- Smart Health Monitoring Device
- Vehicle Tracking System using GPS & GSM
- Smart Grid Monitoring System
- AI-Based Fault Detection in Transmission Lines
- IoT-Based Industrial Automation System
- Smart Agriculture Monitoring and Control System
- Wearable Health Monitoring with Cloud Integration
- Smart Waste Management System
- Real-Time Industrial Safety Monitoring System
- IoT-Based Smart Water Management System
- Autonomous Surveillance Robot using Embedded Systems
- Smart Electric Vehicle Charging Monitoring System
- Edge AI-Based Smart Camera System
- Industrial Equipment Condition Monitoring System
- IoT-Based Cold Storage Monitoring System

- Smart Building Automation System
- AI-Integrated Smart Traffic Monitoring System

Consultancy & Industry Projects

- Room Temperature Monitoring System
- Industrial Data Logger
- IoT-Based Asset Tracking System
- Smart Campus Monitoring System
- Factory Energy Monitoring System
- Smart Warehouse Monitoring System
- Industrial Safety Alert System
- IoT-Based Machine Health Monitoring System
- Real-Time Production Monitoring Dashboard

- Cold Chain Monitoring System
- Smart Inventory Management System
- Remote Industrial Equipment Monitoring System
- Environmental Compliance Monitoring System
- IoT-Based Utility Monitoring System
- Smart Meter Data Acquisition System
- Custom Embedded Product Prototyping
- Wireless Sensor Network Deployment for Industries

This extensive project portfolio ensures:

✔ Strong practical exposure

✔ Industry-oriented skill development

✔ Innovation and patent opportunities

✔ Consultancy revenue generation

✔ Enhanced placement opportunities