



POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO
COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

SPONSORED BY SKPVV HINDU HIGH SCHOOLS COMMITTEE, Estd : 1906
APPROVED BY AICTE, NEW DELHI, AFFILIATED TO JNTU KAKINADA



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Advanced Embedded Systems IoT lab (efftronics)

An **Advanced Embedded Systems and IoT (Internet of Things) Lab** is a specialized research and development facility focused on the design, prototyping, and testing of embedded systems and IoT devices. These systems are typically small, self-contained computing units integrated into various devices, ranging from household appliances to industrial machines, enabling them to collect, exchange, and act on data. The lab combines hardware design, software development, and networking protocols to explore the rapidly evolving world of embedded technologies and connected devices.

Objectives of the Advanced Embedded Systems and IoT Lab

The **Advanced Embedded Systems and IoT (Internet of Things) Lab** focuses on research, development, and innovation in embedded system design, IoT device integration, and related technologies. The lab aims to address real-world challenges, foster innovation, and enhance technological advancements in fields like automation, smart cities, healthcare, and industrial systems.

Outcomes:

- The **Advanced Embedded Systems and IoT Lab** aims to produce innovative solutions, research, and practical applications that advance the fields of embedded systems and IoT technologies.
- The outcomes of such a lab include a variety of tangible results that have far-reaching impacts across industries, academia, and society.



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List of Working Prototypes



Laser Based Security System for Home



Transmission line safety



Overhead transmission line fault detection



Earth quake detector





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Metal detector



Flood detection



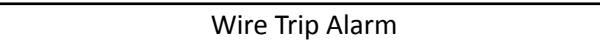
Short Circuit Indicator



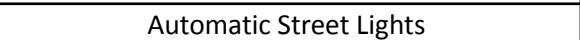
Wire Break Alarm



Wire Trip Alarm



Automatic Street Lights





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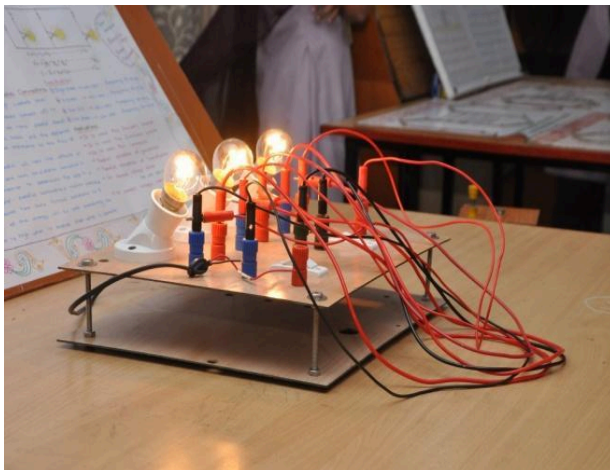
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Innovative Digital Energy Meter with Over Load Indicator



IOT Based Air Pollution Monitoring System



Advanced Smart Energy Saving System for Modern Railways Stations Platform Lighting Control



Secure and smart signal control of railways system





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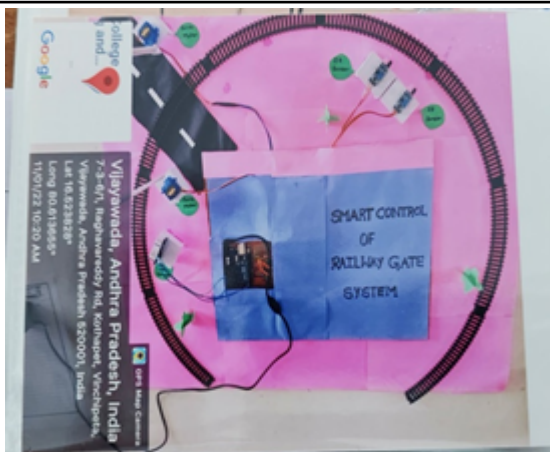
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Underground cable fault detection using cloud technology



Smart Control of Railway Gate System

Detect Rash Driving Speed Checker System on Highways



Smart water tank technology by water level indicator and turn on or off the motor