

**Batch\_2024-28\_Sem\_4**

**B.Tech in EEE**

**Real - Time Research Project/Field Based Project**

**Sub-Code ELE211**

**Choose any one of the following 30 Project Topic**

**A. Smart Monitoring & IoT Based Projects**

1. Smart Electricity Theft Detection System
2. IoT Based Transformer Health Monitoring System
3. Smart Power Consumption Monitoring Using Mobile App
4. Remote Substation Monitoring System
5. Smart Energy Saving System for Classrooms
6. IoT Based Street Light Fault Detection System

**B. Renewable Energy & Green Energy Projects**

7. Solar Based Smart Irrigation System
8. Solar Powered LED Street Light with Auto Intensity Control
9. Solar Energy Performance Monitoring of Rooftop Panels
10. Hybrid Solar and Grid Power Supply System
11. Solar Powered Emergency Backup System
12. Solar Powered Traffic Signal System

**C. Safety & Protection Projects**

13. Over-Voltage and Under-Voltage Protection System
14. Smart Fire Detection and Alarm System
15. Electrical Shock Protection System
16. Smart Circuit Breaker Monitoring System
17. Overload Protection System for Domestic Use
18. Smart Earthing Fault Detection System

**D. Automation Based Field Projects**

19. Automatic Street Light Using LDR and Timer
20. Automatic Water Pump Controller Based on Tank Level
21. Smart Home Energy Saving Automation
22. Automatic Room Light Controller Using Motion Sensor
23. Overload Protection System for Domestic Use
24. Smart Earthing Fault Detection System

**E. Industrial & Real-Time Field Projects**

25. Power Quality Monitoring in Industrial Area
26. Industrial Motor Temperature Monitoring System
27. Electrical Load Management in Small Industry
28. Real-Time Monitoring of DG Generator Performance
29. Industrial Energy Consumption Monitoring System
30. Smart Preventive Maintenance System for Electrical Equipment