

Batch_2024-28_Sem_4

B.Tech in EE

Real - Time Research Project/Field Based Project

Sub-Code ELE213

Choose any one of the following 30 Project Topic

A. Power System Field Projects

1. Electrical Load Survey of Residential Area
2. Energy Consumption Analysis of College Campus
3. Power Factor Measurement and Improvement Study
4. Electrical Distribution System Study of Local Area
5. Transformer Performance Study in Distribution Network
6. Voltage Drop Analysis in Distribution Lines

B. Renewable Energy Field Projects

7. Solar Panel Performance Monitoring in Real-Time
8. Feasibility Study of Solar Street Lighting System
9. Wind Energy Potential Assessment of Local Area
10. Solar Energy Utilization in College Campus
11. Hybrid Solar-Wind Power Generation Study
12. Solar Water Pump Performance Analysis

C. Electrical Safety & Energy Audit Projects

13. Electrical Safety Audit of College Building
14. Energy Audit of Institutional Building
15. Household Energy Consumption Study
16. Electrical Wiring Safety Inspection of Buildings
17. Power Loss Analysis in Electrical Installations
18. Earthing System Performance Study

D. Industrial Field-Based Projects

19. Electrical Load Analysis of Small Industry
20. Motor Efficiency Analysis in Industrial Setup
21. Industrial Power Consumption Monitoring
22. Study of Industrial Electrical Safety Practices
23. Maintenance Study of Electrical Machines
24. Industrial Lighting System Efficiency Study

E. Smart & Real-Time Monitoring Projects

25. Smart Energy Meter Monitoring System
26. IoT Based Energy Consumption Monitoring
27. Automatic Street Light Control System
28. Smart Power Distribution Monitoring
29. Real-Time Fault Detection in Electrical Lines
30. Smart Load Management System