

Batch_2024-28_Sem_4

B.Tech in Civil

Real - time Research Project/Field-Based Project

Sub-Code CIV213

Choose any one of the following 30 Project Topic

A. Surveying Based Projects

1. Chain Survey of College Campus
2. Leveling Survey for Drainage Planning
3. Contour Mapping of Selected Area
4. Total Station Survey of Academic Block
5. Road Alignment Survey for Rural Road

B. Structural Engineering Field Projects

6. Condition Assessment of Existing Reinforced Concrete Buildings
7. Structural Health Monitoring of Old Buildings in Urban Areas
8. Field Investigation of Cracks in Concrete Structures and Remedial Measures
9. Load Carrying Capacity Assessment of Existing Bridges
10. Field Study of Retrofitting Techniques for Damaged Buildings

C. Construction Site Based Projects

11. Real-Time Study of Construction Waste Management at Active Construction Sites
12. Field-Based Analysis of Labor Productivity in Building Construction Projects
13. Study of Delay Factors in Ongoing Construction Projects
14. Real-Time Quality Control Assessment of Concrete Work in Construction Site
15. Comparative Study of Manual vs Mechanized Construction Methods
16. Site Safety Management and Risk Assessment in Construction Projects
17. Study of Material Management Practices at Construction Sites
18. Field Study on Cost Overrun in Residential Construction Projects
19. Real-Time Monitoring of Construction Project Scheduling using Primavera/MS Project
20. Study of Construction Equipment Utilization and Efficiency

D. Environmental Engineering Field Projects

21. Drinking Water Quality Testing of Local Area
22. Solid Waste Management Study of Municipality
23. Waste Generation Study in College Campus
24. Rainwater Harvesting Feasibility Study
25. Water Consumption Study of Residential Area
26. Noise Pollution Study near Highway

E. Geotechnical Field Projects

27. Soil Sample Collection and Classification
28. Field Density Test of Soil
29. Soil Bearing Capacity Study
30. Slope Stability Analysis of Natural and Man-Made Slopes