



TECHNO INDIA UNIVERSITY

W E S T B E N G A L

**M.Tech in Electronics & Communication
Engineering**

Syllabus

2024-25

FOURTH SEMESTER

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| Program: B. Tech. in ECE | Year, Semester: 4 th Yr., 7th Sem. |
| Course Title: Dissertation-PhaseII | Subject Code: TIU-PEC- S202 |
| Contact Hours/Week: 0–0–32 (L–T–P) | Credit: 16 |

Course Objectives:

- To develop problem-solving skills through research and practical implementation.
- To enhance technical knowledge in real-world applications.
- To improve project management, teamwork, and communication skills.
- To document and present the project findings effectively.

COURSE OUTCOME:

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| CO-1 | Identify and define an engineering problem through literature survey and industry requirements. | K4 |
| CO-2 | Formulate project objectives, methodology, and work plan. | K4 |
| CO-3 | Design, develop, and implement innovative solutions using appropriate tools and techniques. | K3 |
| CO-4 | Analyze and evaluate project outcomes using experimental results, simulations, or prototypes. | K4 |
| CO-5 | Prepare technical documentation, research reports, and project presentations. | K4 |
| CO-6 | Demonstrate teamwork, ethical practices, and project management skills. | K3 |

COURSE CONTENT:

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| Phase 1: Project Proposal & Planning |
| Phase 2: System Design & Development |
| Phase 3: Implementation & Experimentation |
| Phase 4: Report Writing & Final Presentation |