

Bachelor of Technology in Electrical & Electronics Engineering (EEE)

Duration: 4 Years (8 Semesters)

Program Type: Undergraduate Engineering Degree

Total Credits: Typically 160–180 Credits (varies by university)

Note: Subject codes differ across universities. The codes below are a standard university-style format.

Semester I

Subject Code	Subject Name
EEE101	Engineering Mathematics-I
EEE102	Engineering Physics
EEE103	Engineering Chemistry
EEE104	Basic Electrical Engineering
EEE105	Engineering Graphics
EEE106	Programming for Problem Solving
EEE107P	Physics Laboratory
EEE108P	Programming Laboratory

Semester II

Subject Code	Subject Name
EEE201	Engineering Mathematics-II
EEE202	Basic Electronics Engineering
EEE203	Environmental Studies
EEE204	Engineering Mechanics

Subject Code	Subject Name
EEE205	Electrical Circuit Analysis
EEE206	Communication Skills
EEE207P	Electronics Laboratory
EEE208P	Electrical Workshop

Semester III

Subject Code	Subject Name
EEE301	Electrical Machines-I
EEE302	Analog Electronics
EEE303	Signals and Systems
EEE304	Network Theory
EEE305	Electromagnetic Fields
EEE306	Digital Electronics
EEE307P	Electrical Machines Lab-I
EEE308P	Analog Electronics Lab

Semester IV

Subject Code	Subject Name
EEE401	Electrical Machines-II
EEE402	Power Systems-I
EEE403	Control Systems

Subject Code	Subject Name
EEE404	Microprocessors and Microcontrollers
EEE405	Measurements and Instrumentation
EEE406	Electrical Engineering Materials
EEE407P	Control Systems Lab
EEE408P	Microprocessor Lab

Semester V

Subject Code	Subject Name
EEE501	Power Electronics
EEE502	Power Systems-II
EEE503	Digital Signal Processing
EEE504	Renewable Energy Systems
EEE505	Industrial Automation
EEE506	Professional Ethics
EEE507P	Power Electronics Lab
EEE508P	Power Systems Lab

Semester VI

Subject Code	Subject Name
EEE601	High Voltage Engineering
EEE602	Switchgear and Protection
EEE603	Electric Drives

Subject Code	Subject Name
EEE604	Embedded Systems
EEE605	Energy Management and Auditing
EEE606	Elective-I
EEE607P	Electric Drives Lab
EEE608P	Embedded Systems Lab

Semester VII

Subject Code	Subject Name
EEE701	Smart Grid Technology
EEE702	Electrical Machine Design
EEE703	Elective-II
EEE704	Elective-III
EEE705	Industrial Training
EEE706P	Major Project Phase-I
EEE707P	Seminar

Semester VIII

Subject Code	Subject Name
EEE801	Electrical Safety Engineering
EEE802	Elective-IV
EEE803	Elective-V
EEE804P	Major Project Phase-II

Subject Code	Subject Name
EEE805P	Comprehensive Viva Voce
EEE806P	Internship Report & Evaluation