

Bachelor of Electrical Engineering program, BE Electrical, PU, Purbanchal University

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Bachelor of Electrical Engineering Syllabus

1st Semester

- : Engineering Mathematics I
- : Communicative English
- : Elements and Devices of Computing Technology
- : Computer Programming
- : Physics
- : Engineering Drawing-I
- : Workshop Technology

2nd Semester

- : Engineering Mathematics-II
- : Chemistry
- : Electrical Engineering
- : Applied Mechanics
- : Object Oriented Programming
- : Digital Logic

3rd Semester

- : Engineering Mathematics-III
- : Fundamentals of Thermodynamics & Heat
- : Electric Circuit Theory
- : Electronic Devices and Circuits
- : Electrical Engineering Material
- : Microprocessor

4th Semester

- : Electromagnetics
- : Applied Mathematics
- : Numerical Methods
- : Electrical Machines-I
- : Power System Analysis
- : Instrumentation

First Semester

- : Probability and Statistics
- : Synchronous & Special Machines
- : Control System Engineering
- : Electric Machine Design
- : Power System Analysis-II
- : Advanced Instrumentation
- : Research Methodology

Second Semester

- : Power System Protection
- : Digital Control System
- : Industrial Electrification
- : Signal Analysis
- : Hydropower Engineering
- : Engineering Economics

Third Semester

- : Power Electronics
- : Utilization of Electrical Energy
- : Power Plant Equipment
- : Project Management for Engineering
- : Hazard Analysis and Safety Management
- : Rural Electrification
- : Project-I
- : Electrical Energy System Management
- : Reliability Engineering

Fourth Semester

- : Engineering Professional Practice
- : Power Transmission & Distribution Design
- : High Voltage Engineering
- : Power Plant Design
- : Advanced Power System Analysis
- : Applied Photovoltaic Engineering
- : Micro Hydropower
- : Artificial Neural Network
- : Wind Energy Conversion System
- : Project-II