

B.TECH ELECTRICAL ENGINEERING

Semester I

Sl. No.	Subject codes	Course Title
1	BS-01	Engineering Physics
2	BS-02	Engineering Mathematics-I
3	ES-01	Basic Electrical and Electronics Engineering
4	ES-02	Engineering Graphics and Design
5	ES-03	Design Thinking
6	HSM-01	English for Technical Writing
7	MNC-AU-01	IDEA lab workshop

Semester II

Sl. No.	Subject codes	Course Title
1	BS-03	Engineering Chemistry
2	BS-04	Engineering Mathematics-II
3	BS-05	Biology for Engineers
4	ES-04	Programming for problem Solving
5	ES-05	Electrical and Mechanical Workshop
6	HSM-02	Universal Human Values
7	MNC-AU-02	Sports and Yoga or NSS/NCC

Semester III

Sl. No.	Subject Code	Course Title
1	BS-06	Engineering Mathematics-III
2	PCC-01	Digital Electronics
3	PCC-02	Electrical Machines-I
4	PCC-03	Network Theory
5	ES-06	Electrical and Electronics Measurement
6	ES-07	Modelling and Simulation (MATLAB)
7	MNC-AU-03	Environmental Science
8	IKS	Indian Knowledge System
9	HONOURS-01	Fundamentals of Electric and Hybrid Vehicles
10	INT-01	Summer Internship-I (after Sem II)

Semester IV

Sl. No.	Subject Code	Course Title
1	PCC-04	Electrical and Industrial Safety
2	PCC-05	Electrical Machines-II
3	PCC-06	Control System-I
4	PCC-07	Analog Electronics
5	PCC-08	Power System-I
6	PCC-09	Signals and Systems
7	MNC-AU-04	Indian Constitution

8	HONOURS-02	EV Battery Technology
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Semester V

Sl. No.	Subject Code	Course Title
1	PCC-10	Power Systems-II
2	PCC-11	Power Electronics
3	PCC-12	Electromagnetic Field Theory
4	PCC-13	Simulation Lab (PSIM/ AutoCAD Electrical/ MATLAB)
5	PEC-01	Industrial and Domestic Electrification
6	MNC-AU-05	Professional Practices, Law and Ethics
7	HONOURS-03	Electric Vehicles Architecture
8	HONOURS-04	Drives and Control for Electric Vehicles
9	INT-02	Summer Internship-II (after Sem IV)

Semester VI

Sl. No.	Subject Code	Course Title
1	PCC-14	Power System-III
2	PCC-15	Control System-II
3	PCC-16	Advanced Industrial Automation and SCADA
4	PEC-02	1. Microcontroller and Microprocessor Smart Embedded System
5	PEC-03	1. Energy Auditing and Management

		Solar Power System
6	MNC-AU-06	Business Communication and Entrepreneurship
7	MOPEC-01	Non-conventional Energy System
8	HONOURS-05	EV charging Infrastructure and Grid Integration

Semester VII

Sl. No.	Subject Code	Course Title
1	PCC-17	Electric Drives
2	PEC-04	1. Smart Grid Technology Power Quality
3	PEC-05	1. High Voltage Engineering Electrical Machine Design
4	PEC-06	1. HVDC and FACTS Reliability Engineering
5	MNC-AU-07	Finance and Accounts
6	PR	Major Project
7	INT-03	Summer Internship- III (after Sem VI)
8	HONOURS-06	EV Testing

Semester VIII

Sl. No.	Subject Code	Course Title
1	OJT	On-the-Job Training