

B.Tech Curriculum for Electrical Engineering

SEMESTER – I

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Calculus and Ordinary Differential Equations	Mathematics	MA1L003	3-1-0	4	4
Introduction to Bio Science and Technology	Chemistry	ID2L002	2-0-0	2	2
Happiness and life skill	Humanities, Social Science and Management	ID1LXXX	1-0-0	1	1
Introduction to Bharatiya Knowledge Traditions	Humanities, Social Science and Management	ID1LXXX	2-0-0	2	2
Engineering Mechanics	Mechanical Science	ME1L001	3-1-0	4	4
Basic Electrical and Electronics Engineering	Electrical Engineering	EE1L002	3-1-0	4	4
Basic Electrical and Electronics Engineering Laboratory	Electrical Engineering	EE1P002	0-0-3	2	3
Introduction to Manufacturing Process	Mechanical Science	ME1P001	0-0-3	2	3
Extra Academic Activity-1		ID1T001	0-0-3	1	-
Total				22	23

SEMESTER – II

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Linear Algebra and Complex Analysis	Mathematics	MA1L004	3-1-0	4	4
Environmental Science, Technology and Management	Earth, Ocean and Climate Science	ID2L003	2-0-0	2	2
English for learning and Communication	Humanities, Social Science and Management	HS1L011	2-0-2	3	4
Programming in C	Computer Science Engineering	CS1L002	2-0-2	3	4
Physics	Physics	PH1L001	3-0-0	3	3
Physics Laboratory	Physics	PH1P001	0-0-3	2	3
Analog and Digital Electronic Circuits	Electrical Engineering	EE1L003	3-1-0	4	4
Extra Academic Activity-2		ID1T002	0-0-3	1	-
Total				22	24

SEMESTER-III

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-2		3-0-0	3	3
SDC-2	SDC-2	EE2L008	2-0-2	3	4
Signals and Linear Systems	DC-2	EE2L005	3-1-0	4	4
Electric Machines-I	DC-3	EE2L006	3-1-0	4	4
Electromagnetic Engineering	DC-4	EE2L007	3-0-0	3	3
Analog and Digital Electronic Circuits Lab	DC Lab-1	EE2P002	0-0-3	2	3
Electrical Machines Laboratory – I	DC Lab-2	EE2P003	0-0-3	2	3
Total				21/22	24/25

SEMESTER-IV

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-3		3-0-0	3	3
SDC-3	SDC-3	EE2L012/ EE2L013	2-0-2	3	4
Elective-1	OE-1		3-0-0	3	3
Electric Machines-II	DC-5	EE2L009	3-1-0	4	4
Network Analysis	DC-6	EE2L010	3-1-0	4	4
Embedded Systems	DC-7	EC2L107	2-0-2	3	4
Electrical Machines Laboratory – II	DC Lab-3	EE2P004	0-0-3	2	3
Total				22	25

SEMESTER-V

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS-4		3-0-0	3	3
SDC-4	SDC-4	EE3L013	1-0-3	3	4
Electrical Engineering Materials and Devices	DC-8	EE3L017	3-0-0	3	3
Electrical Power Transmission and Distribution	DC-9	EE3L007	3-1-0	4	4
Control System	DC-10	EE3L003	3-1-0	4	4
Control System Laboratory	DC Lab-4	EE3P003	0-0-3	2	3
Total				19	22

SEMESTER-VI

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	SDC-5	EE3L014	1-0-3	3	4
Elective-2	DE-1		3-0-0	3	3
Power System Operation and Control	DC-11	EE3L012	3-1-0	4	4
Power Electronics	DC-12	EE3L004	3-1-0	4	4
Power Electronics Laboratory	DC Lab-5	EE3P004	0-0-3	2	3
Power Systems Laboratory	DC Lab-6	EE3P006	0-0-3	2	3
Total				18	21

SEMESTER-VII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-3	DE-2		3-0-0/3-1-0	3/4	3/4
Elective-4	DE-3		3-0-0/3-1-0	3/4	3/4
Elective-5	DE-4		3-0-0/3-1-0	3/4	3/4

Elective-6	OE-2		3-0-0	3	3/4
Summer Internship	ITD	EE4T002	0-0-0	2	-
BTP- 1	Project/ DE/OE-A	EE4D003/ Subject from OE/DE Basket	0-0-6/(3-0-0/3-1-0)	3/(3/4)	6/(3/4)
Total				17/(17/21)	18/(15/20)

SEMESTER-VIII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-7	DE-5		3-0-0/3-1-0	3/4	3/4
Elective-8	DE-6		3-0-0/3-1-0	3/4	3/4
BTP- 2	Project/ DE/OE-B & C	EE4D004/2 subjects from OE/DE Basket	0-0-9/(3-0-0/3-1-0)	6/(6/7)	9/(6/7)
Total				12/(12/15)	15/(12/15)

SEMESTER-VIII FOR SIX MONTH INTERNSHIP STUDENTS

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Elective-7	DE-5		3-0-0/3-1-0	3/4	3/4
Elective-8	DE-6		3-0-0/3-1-0	3/4	3/4
BTP- 2	Project/ DE/OE-B & C	EE4D004/2 subjects from OE/DE Basket	0-0-9/(3-0-0/3-1-0)	6/(6/7)	9/(6/7)
Six Months Internship	Internship				
Total				12/(12/15)	15/(12/15)

Total Credit: 153