

Course structure for 4-Year 8-Semester B. Tech. Degree in

Electrical Engineering

Course Structure for 1st SEMESTER

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Communicative English	HU101	03	2	1	0	03
2	Physics-I	PH102	03	2	1	0	03
3	Chemistry-I	CH103	03	2	1	0	03
4	Engineering Mathematics-I	MA104	03	2	1	0	03
5	Electrical Technology	EE105	03	2	1	0	03
6	Computer Programming and Data Structure	CS106	03	2	1	0	03
7	Language Lab	HU107	02	0	0	3	03
8	Physics-I Lab	PH108	02	0	0	3	03
9	Chemistry-I Lab	CH109	02	0	0	3	03
10	Electrical Technology Lab	EE110	02	0	0	3	03
11	Computer Lab	CS111	02	0	0	3	03
	TOTAL		28	12	6	15	33

Course Structure for 2nd SEMESTER

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Sociology	HU201	03	2	1	0	03
2	Physics-II	PH202	03	2	1	0	03
3	Chemistry-II	CH203	03	2	1	0	03
4	Engineering Mathematics-II	MA204	03	2	1	0	03
5	Basic Electronics	ET205	03	2	1	0	03
6	Engineering Mechanics	ME206	03	2	1	0	03
7	Physics-II Lab	PH207	02	0	0	3	03
8	Chemistry-II Lab	CH208	02	0	0	3	03
9	Electronics Lab	ET209	02	0	0	3	03
10	Workshop Practice	ME210	02	0	0	3	03
11	Engineering Drawing	ME211	02	0	0	3	03
	TOTAL		28	12	6	15	33

Course Structure for 3rd Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Electronic Devices and Systems	EC301	03	2	1	0	03
2	Mathematics – III	MA302	03	2	1	0	03
3	Electrical and Electronic Measuring Instruments	EI303	04	3	1	0	04
4	Thermal Engineering and Material Science	EE304	03	2	1	0	03
5	Network Analysis and Synthesis	EE305	03	2	1	0	03
6	Adv. Electronics Lab	EC306	02	0	0	3	03
7	Measurement Lab	EI307	02	0	0	3	03
8	Adv. Programming and Numerical Lab	MA308	02	0	0	3	03
9	Network Theory Lab	EE309	02	0	0	3	03
	TOTAL		24	11	5	12	28

Course Structure for 4th Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Field Theory	EE301	03	2	1	0	03
2	Electrical Machine – I	EE402	04	3	1	0	04
3	Power System – I	EE403	04	3	1	0	04
4	Control Theory – I	EE404	03	2	1	0	03
5	Communication Systems	EC405	03	2	1	0	03
6	Electrical Machine Lab – I	EE406	02	0	0	3	03
7	Power System Lab – I	EE407	02	0	0	3	03
8	Control System Lab – I	EE408	02	0	0	3	03
9	Communication Lab	EC409	02	0	0	3	03
	TOTAL		25	12	5	12	29

Course Structure for 5th Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Electrical Machine – II	EE501	04	3	1	0	04
2	Power System – II	EE502	04	3	1	0	04
3	Control Theory – II	EE503	04	3	1	0	04
4	Power Electronics	EE504	04	3	1	0	04
5	Microprocessor and Microcontrollers with Applications	EI505	04	3	1	0	04
6	Electrical Machine Lab – II	EE506	02	0	0	3	03
7	Control System Lab – II	EE507	02	0	0	3	03
8	Power Electronics Lab	EE508	02	0	0	3	03
	TOTAL		26	15	5	9	29

Course Structure for 6th Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Electrical Machine – III	EE601	04	3	1	0	04
2	Power System – III	EE602	04	3	1	0	04
3	Digital Signal Processing	EI603	03	2	1	0	03
4	Power Station and Substation Engineering	EE604	04	3	1	0	04
5	Electrical Machine Modeling and Design Lab	EE605	04	0	1	6	07
6	Power System Lab – II	EE606	02	0	0	3	03
7	Microprocessor and Microcontrollers Lab	EI607	02	0	0	3	03
	TOTAL		23	11	5	12	28

Course Structure for 7th Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Engineering Management	HU701	03	2	1	0	03
2	Electrical Drives	EE702	04	3	1	0	04
3	Elective – I	EE703	03	2	1	0	03
4	Drives Lab	EE704	02	0	0	3	03
4	Seminar	EE705	02	0	1	2	03
5	Project Ph-I	EE706	04	0	1	6	07
	TOTAL		18	7	5	11	23

Elective – I

- A. Optical sensors and Nondestructive Evaluation
- B. Digital Communication and PLC
- C. Software Engineering
- D. Mechatronics
- E. Database Management Systems
- F. High Voltage Engineering

Course Structure for 8th Semester

Serial No.	Name	Code	Credit	Weekly Load			Total Load
				L	T	P	
1	Engineering Economics	HU801	03	2	1	0	03
2	Elective – II	EE802	03	2	1	0	03
3	Project Ph-II	EE803	10	0	2	15	17
4	General Viva Voce	EE804	02	0	0	0	00
	TOTAL		18	4	4	15	23

Elective – II

- A. Non-Conventional Energy
- B. Utilization of Electric Power
- C. Microprocessor and microcontroller interfacing
- D. Computer Networks
- E. Advanced Control
- F. Introduction to Robotics