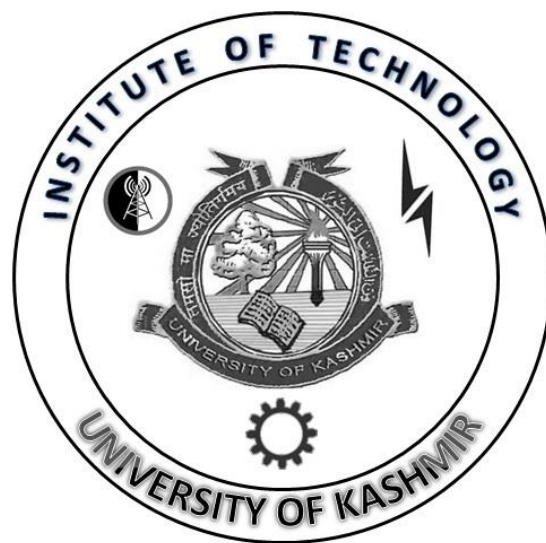


SYLLABUS
FOR
B.TECH. PROGRAMME
IN
ELECTRICAL ENGINEERING



INSTITUTE OF TECHNOLOGY
ZAKURA CAMPUS
UNIVERSITY OF KASHMIR
SRINAGAR
J&K
190006

3rd Semester
ELECTRICAL

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
MTH3117	Engineering Mathematics-III	3	1	0	4
ELE3217	Material Science Engineering	2	1	0	3
ELE3317	Network Analysis and Synthesis	3	1	0	4
ELE3417	Analog Electronic Circuits - I	2	1	0	3
ELE3517	Thermal Power Engineering	2	1	0	3
ELE3617	Electrical Machines -I	3	1	0	4
ELE3717L	EDA Tools Lab	0	0	2	1
ELE3317L	Network Analysis and Synthesis Lab	0	0	2	1
ELE3417L	Analog Electronic Circuits	0	0	2	1
ELE3617L	Electrical Machines Lab – I	0	0	2	1
	Total	15	6	8	25

4th Semester

ELECTRICAL

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
ELE4117	Electrical Machines- II	2	1	0	3
ELE4217	Control Systems –I	2	1	0	3
ELE4317	Electrical Measurements and Measuring Instruments	2	1	0	3
ELE4417	Analog Electronic Circuits - II	3	1	0	4
ELE4517	Electro Magnetic Fields & Waves	3	1	0	4
MTH4617	Engineering Mathematics-IV	3	1	0	4
ELE4117L	Electrical Machines Lab -II	0	0	2	1
ELE4317L	Electrical Measurements Lab	0	0	2	1
ELE4417L	Analog Electronic Circuits Lab - II	0	0	2	1
ELE4717L	Computer Aided Simulation of Electrical Systems	0	0	2	1
	Total	15	6	8	25

5th Semester

ELECTRICAL

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
ELE5117	Control Systems -II	3	1	0	4
ELE5217	Power System –I	3	1	0	4
ELE5317	Non-Conventional Energy Sources	2	1	0	3
ELE5417	Microprocessors	2	1	0	3
ELE5517	Signals and Systems	3	1	0	4
ELE5617	Digital Electronics and Logic Design	2	1	0	3
ELE5117L	Control Systems Lab	0	0	4	2
ELE5417L	Microprocessors Lab	0	0	2	1
ELE5617L	Digital Electronics and Logic Design Lab	0	0	2	1
	Total	15	6	8	25

6th Semester

ELECTRICAL

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
ELE6117	Power Systems - II	3	1	0	4
ELE6217	Digital Signal Processing	3	1	0	4
ELE6317	Power Electronics	2	1	0	3
ELE6417	Design of Electric Machines	2	1	0	3
ELE6517	Hydraulics and Hydraulic Machines	2	1	0	3
ELE6617	Communication Systems	2	1	0	3
ELE6717	Seminar	0	0	0	1
ELE6117L	Power Systems Analysis Lab	0	0	2	1
ELE6217L	DSP/ Communication Lab	0	0	2	1
ELE6317L	Power Electronics Lab	0	0	2	1
ELE6817L	Computer Aided Design of Electric Machines Lab	0	0	2	1
	Total	14	6	8	25

7th Semester

ELECTRICAL

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
ELE7117	Power System Protection	3	1	0	4
ELE7217	Advanced Power Electronics	2	1	0	3
ELE7*17E	Elective – I	2	1	0	3
ELE7317	Electronic Measurements & Instrumentation	2	1	0	3
ELE7417	Power Station Practice	3	1	0	4
ELE7517	Industrial Training & Viva	0	0	0	2
ELE7617	Pre Project	0	0	6	3
ELE7117L	Power System Protection Lab	0	0	2	1
ELE7317L	Electronic Measurements and Instrumentation Lab	0	0	4	2
	Total	12	5	12	25

8th Semester

Electrical

Course Code	Course Title	Teaching Periods per week			Credits
		L	T	P	
ELE8117	Power System III	3	1	0	4
HUM8217	General Management & Economics	3	1	0	4
ELE8317	Advanced Micro-controllers	2	1	0	3
ELE8*17E	Elective -II	2	1	0	3
ELE8417	Major Project	0	6	8	10
ELE8317L	Advanced Micro-controllers Lab	0	0	2	1
	Total	10	10	10	25

Electives

I and II:

ELE-

X*17E:

(X= 7 or

8)

* :serial no of below mentioned subjects

01. Restructuring of Power Systems
02. Advanced Power System Control
03. High Voltage Engineering
04. Advanced Transformer Engineering
05. Electric Drives
06. Flexible AC Transmission Systems
07. Utilization & Traction