



Study & Evaluation Scheme (As per NEP-2020)

w.e.f. 2024-25

Program: B. Tech. Electrical Engineering

Semester-I

S. No.	Course Code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme						Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT		TA		Total	TE				PE	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics
							Th	P	Th	P													
1	EE103	Basic Electrical Engg.	ESC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√				
2	PY101	Physics	BSC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√		√				√
3	LN132	Communication Skills: Theory and Practices	HSSM	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√		√	√			√
4	MT101	Mathematics I	BSC	3	1	0	50	-	25	-	75	75	-	150	3:1:0	4	√	√	√				
5	EC101	Basic Electronics	ESC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3			√				
6	ME103	Engineering Graphics	ESC	0	0	2	-	15	-	10	25	-	25	50	0:0:2	1	√	√	√				
7	*HM101	Rashtra Gaurav	MC	2	0	0	0	0	0	0	0	100	0	100	2:0:0	0						√	
Total				17	1	8	310		165		475	375	100	950		20							

* HM101 Rashtra Gaurav: This is a mandatory noncredit course in which a student must clear this paper with 50% passing marks up to the final year and marks will not be included in the result.

Semester-II

S. No.	Course Code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme							Sub. Total	Credit	Total Credits	Attributes						
				L	T	P	CT		TA		Total	TE	PE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics
							Th	P	Th	P													
1	CS101	Computer Programming	ESC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√				
2	ME101	Basic Mechanical Engineering. & Workshop	ESC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√		√				
3	CH101	Chemistry	BSC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√		√		
4	MT112	Mathematics II	BSC	3	1	0	50	-	25	-	75	75	-	150	3:1:0	4	√	√	√				
5	ES102	Concept of Environmental Studies	HSSM	2	1	0	50	-	25	-	75	75	-	150	2:1:0	3			√		√	√	
6	EE102	Electrical Workshop	PCC	0	0	2	-	15	-	10	25	-	25	50	0:0:2	1	√	√	√				
Total				14	2	8	310		165		475	375	100	950		20							

Semester-III

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme						Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT		TA		Total	TE				PE	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics
							Th	P	Th	P													
1	EE201	Network Analysis	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4			√				
2	EE202	DC Machines and Transformer	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√						
3	EE203	Analog and Digital Electronics	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√					
4	EE204	Measurement and Instrumentation	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4		√	√				
5	EE205	Fundamentals of EMFT	ESC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3			√				
6	CS203	Cyber Law and Information Security	ESC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3			√				
7	ES203	Disaster Management and Mitigation	HSMC	3	0	0	50	-	25	-	75	75	0	150	3:0:0	3	√	√					
8	EE206	Electrical Simulation Lab	PCC	0	0	2	-	15	-	10	25	-	25	50	0:0:2	1							
9	*BM226	Human Values and Professional Ethics	MC	2	0	0	-	-	-	-	-	100	-	100	0:0:0	0	√	√					
Total				23	0	10	425		225		650	525	125	1300		26							

* BM226 Human Values and Professional Ethics: This is a mandatory noncredit course in which a student must clear this paper with 50% passing marks up to the final year and marks will not be included in the result.

Semester-IV

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme							Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT		TA		Total	TE	PE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
							Th	P	Th	P														
1	EE211	Control System	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√							
2	EE212	AC and Special Electric Machines	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√							
3	CS204	Data Structure using C	ESC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4		√	√					
4	EE213	Element of Power System	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√							
5	EE214	Signals and Systems	PCC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3			√					
6		Elective-I	PEC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3								
7	EE215	Mini Project	IPC	0	0	3	-	-	-	100	100	-	-	100	0:0:3	2	√	√	√		√			√
Total				18	0	11	360		290		650	450	100	1200		24								

Elective- I		
S.No.	Course Code	Course Name
1.	EE221	Numerical Analysis
2.	EE222	Illumination Engineering
3.	EE223	Electrical Engineering Material and Devices

Minor									
S. No.	Sem.	Course Name	Category	L	T	P	C	Contact hours	Remark
1.	IV	Minor-I/ II/ III	MN-1	3	0	0	3	3	
Total				3	0	0	3	3	

The department offers Three different minors (Minor-I/II/III) for the students of other departments starting from the fourth semester. (Each Minor course is of Three Credits). The details are as follows:

Minor I: Energy Analytics & Management

S. No.	Sem.	Course Code	Course Name	Category	L	T	P	C	Contact hours	Remark
	IV	EE251	Energy Conservation, Energy Audit and Management	MN	3	0	0	3	3	

Minor II: Renewable Energy & Sustainability

S. No	Sem.	Course Code	Course Name	Category	L	T	P	C	Contact hours	Remark
1	IV	EE341	Fundamentals of Renewable Energy Systems	MN	3	0	0	3	3	

Minor III: Electric Vehicle & Smart Grid

S. No	Sem.	Course Code	Course Name	Category	L	T	P	C	Contact hours	Remark
1	IV	EE342	Fundamentals of Power Electronics for EV's	MN	3	0	0	3	3	