



Scheme of Evaluation B. Tech. VII Semester (Electrical Engineering) (2021-22 Admitted Batch)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted										Contact Hours /week			Total Credits	Mode of Teaching	Mode of Exam.	
				Theory Slot				Practical Slot			MOOCs			Total Marks	L	T				P
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assign-ment	Exam								
				End Sem. Exam.	Proficiency in subject	Mid Sem. Exam	Quiz/ Assignment		Lab work & Sessional	Skill-Based Mini Project										
1.	1307xx	DE	Departmental Elective**(DE-2)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP	
2.	1307yy	DE	Departmental Elective* (DE-3)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MCQ	
3.	1307yy	DE	Departmental Elective* (DE-4)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MCQ	
4.	9102zz	OC	Open Category** (OC-2)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP	
5.	130720	DLC	Electrical Drives Lab	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO	
6.	130721	DLC	Industrial Automation Lab	-	-	-	-	25	25	-	-	-	50	-	-	2	1	Offline	SO	
7.	130722	DLC	Summer Internship Project-III (04 weeks)(Evaluation)	-	-	-	-	60	-	-	-	-	60	-	-	4	2	Blended	SO	
Total				100	20	40	40	145	45	20	50	150	610	12	-	10	17	-		
8	1000008	MAC	Universal Human Values & Professional Ethics (UHVPE)	50	10	20	20	-	-	-	-	-	100	2	-	-	Grade	Blended	MCQ	

Additional Course for Honours or minor Specialization (Permitted to opt for maximum two additional courses for the award of Honors or Minor specialization)

[§] Proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

\$\$ MCQ: Multiple Choice Question \$\$ AO: Assignment + Oral \$\$ PP: Pen Paper \$\$ SO: Submission + Oral

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform with Credit Transfer ** Course run in Traditional Mode

*DE-3 (SWAYAM/NPTEL/ MOOC platform)		*DE-4 (SWAYAM/NPTEL/ MOOC platform)		**DE-2 (Traditional Mode)		**Open Category (OC-2) (for other disciplines)	
Code	Course Name	Code	Course Name	Code	Course Name	Code	Course Name
130761	DC Microgrid And Control Systems	130765	Sensor Technologies: Physics, Fabrication, And Circuits	130717	Utilization of Electrical Energy	910205	Applications of Electrical Equipment & Motors
130762	Economic Operations And Control Of Power Systems	130767	Digital Switching-I	130718	Electrical Drives	910206	Sensor Technology
130763	Sustainable Power Generation Systems	130768	Real-Time Discrete Signal Processing	130719	Electric Vehicles	910207	Electric Vehicles

Mode of Teaching						Mode of Examination					Total Credits
Theory			Lab	MOOC		Theory			Lab	SIP/SLP/NEC	
Offline	Online	Blended	Offline	Online Mentoring	Interactive	PP	AO	MCQ	SO	SO	
-	-	6	3	6	2	6	-	6	3	2	17
-	-	35.3%	17.6%	35.3%	11.8%	37%	-	35.3%	17.6%	11.8%	Credits %



B. Tech. with Honors (Electrical Engineering)

(For students of the host department: Electrical Engineering)

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

(In each semester, starting from V to VIII semester, students are required to opt for new subjects)

Specialization 1: Control System & Instrumentation	Specialization 2: Power System & Energy
Course Name:	Course Name:
Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink (08 weeks) Mentor: Prof Ashis Patra	Smart Grid: Basics to Advanced Technologies (12 weeks) Mentor: Dr Himmat Singh
Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software (12 Week) Mentor: Dr Ankit Tiwari	Design of Photovoltaic Systems (12 Week) Prof Vishal Chaudhary
Power Electronics with Wide Band Gap Devices (12 Week) Prof Manoj Kumar	Advances in UHV Transmission and Distribution (8 Week) Mentor: Prof Vishal Chaudhary
Introduction to Industry 4.0 and Industrial Internet of Things (12 Week) Mentor: Dr Vikram	Introduction to Industry 4.0 and Industrial Internet of Things (12 Week) Mentor: Dr Vikram

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization. Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program

B. Tech. with Minor Specialization in Electrical Engineering

(For students of the other department)

* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Course Name	Course Name
Basic Electrical Circuits (12 weeks) Mentor: Prof Vishal Chaudhary	Electrical Machines – I (12 Week) Mentor Prof Ashis Patra
A Basic Course on Electric and Magnetic Circuits (12 Weeks) Mentor: Dr Vijay Bhuria	Control Systems Mentor: Dr Vikram
Electrical Measurement and Electronic Instruments Mentor: Dr Ankit Tiwari	Smart Grid: Basics to Advanced Technologies (12 week) Mentor: Dr Himmat Singh

Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization. Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program