Department of Electrical Engineering
Scheme of Examination
B.Tech VIII Semester   *For batch admitted in Academic Session 2020-2021*

S. No.	Subject Code	Category	Subject Name & Title	Theory Slot End Sem.	Theory Slot Mid Sem. Exam	Theory Slot Quiz/ Assignment	Practical Slot End Sem	Practical Slot Term Work / Lab Work & Sessional	MOOC Assignment	MOOC Exam	Total Marks	L	T	P	Total Credits	Mode of Teaching	$^{\$\$}$Mode of Exam.
1.	130861/ 62/63/64	DE	DE* (DE-5)	-	-	-	-	-	25	75	100	-	-	-	3	Online	**MCQ**
2.	9106**	OC	OC* (OC-3)	-	-	-	-	-	25	75	100	-	-	-	3	Online	**MCQ**
3.	130831	DLC	Internship/ Project	-	-	-	250	150	-	-	400	-	-	18	9	Offline	SO
4.	130832	-	Professional Development#	-	-	-	50	-	-	-	50	-	-	4	2	Interactive	SO
			Total	-	-	-	300	150	50	150	650	-	-	22	17		

Additional Courses for obtaining Honours or minor Specialization by desirous students	Permitted to opt for a <u>maximum of two additional courses</u> for the award of (i) Honours in parent discipline or (ii) Honours with a Minor Specialization in engineering discipline other than the parent discipline.

*All of these courses will run through SWAYAM/ NPTEL/ MOOC with credit transfer
MCQ: Multiple Choice Question   **SO:** Submission+ Oral
#Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG program (participation in professional chapter activities, club activities, cultural events, sports, and personality development activities, collaborative events, MOOCs & technical events)

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	PD	Theory			Lab	NEC	
Offline	Online	Blended	Offline	**Interactive**	PP	AO	MCQ	SO	SO	**Total Credits**
-	-	**06**	**09**	**02**	-	-	**06**	**09**	**02**	**17**
-	-	**35.29%**	**52.95%**	**11.76%**	-	-	**35.29%**	**52.95%**	**11.76%**	**Credits%**

DE-5 *(SWAYAM/NPTEL/ MOOC)		OC-3**(SWAYAM/NPTEL/ MOOC) (For students of other branches)	
130861	State Space Approach to Control System Analysis and Design	9106**	State space Approach to Control System Analysis and Design
130862	Smart Grid: Basics to Advanced Technologies	9106**	Smart Grid: Basics to Advanced Technologies
130863	EV - Vehicle Dynamics and Electric Motor Drives	9106**	Industrial Automation and Control
130864	Design of Power Electronic Converters		
130865	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems		

List of courses to be opted for Honours / Minor Specialization in VIII Semester

Honours* (to be opted by students of Parent Department)		Minor specialization* (to be opted by students of Other Department)	
Course Code	**Course Name**	**Course Code**	**Course Name**
H130811	Control System Design(12 Weeks)	M130806	Fundamentals of Power Electronics (12 Weeks)
H130807	Fuzzy Sets, Logic and Systems & Applications(12 Weeks)	M130811	Power System Engineering (12 Weeks)
H130812	State space Approach to Control System Analysis and Design (12 Weeks)	M130805	Electrical Machines – II (12 Weeks)
H130813	Smart Grid: Basics to Advanced Technologies (12 Weeks)	M130807	Principles of Signals and Systems (12 Weeks)
H130814	Sensors & Actuators (12 weeks)	M130812	Sensors and Actuators (12 Weeks)
H130815	Digital Signal Processing and its Applications (12 Weeks)	M130808	Control Engineering (12 Weeks)
H130816	Signal Processing Techniques and its Applications (12 Weeks)	M130801	Network Analysis (12 Weeks)
H130817	Microprocessors and Microcontrollers (12Weeks)		