(Government Aided Autonomous Institute)



Credit System for

Final Year B.Tech. (Electrical Engineering) Sem-VII and VIII

AY 2020-21



(Government Aided Autonomous Institute)

Credit System for Final Year B.Tech. (Electrical Engineering) Sem-VII AY 2020-21

Sr.No.	Category	Course Code	Course Name		L	Т	Р	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)													
1	PC	3EL401	Power System Harmonics and FACTS		3	0	0	3	3	10	30	10	50
2	PC	3EL402	HVDC Transmission		3	0	0	3	3	10	30	10	50
3	PC	3EL403	Solar and Wind Power Generation		3	0	0	3	3	10	30	10	50
	Professional Core (Lab)												
4	PC	3EL451	Power System Harmonics and FACTS Lab		0	0	2	2	1	25	25	25	25
5	PC	3EL491	Project 1		0	0	8	8	4	25	25	25	25
Professional Elective (Theory)													
6	PE	Refer list	Professional Elective 1		3	0	0	3	3	10	30	10	50
7	PE	Refer list	er list Professional Elective 2			0	0	3	3	10	30	10	50
		_	Professional I	Elective (Lab)							_		
8 PE Refer list Professional Elective 1 Lab			0	0	2	2	1	25	25	25	25		
9	PE	Refer list	Professional Elective 2 Lab		0	0	2	2	1	25	25	25	25
			Open H	Elective									
10	OE	Refer list	Open Elective 3		3	0	0	3	3	10	30	10	50
Value Added Professional Courses #													
Value Added Life-Skill Courses #													
	Total 18 0 14 32 25												



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Course List for Final Year B.Tech. (Electrical Engineering) Sem-VII AY 2020-21

Sr.No.	Course Code	Code Course Name								
	Professional Elective 1									
1	3EL411	Advanced Power Electronics								
2	3EL412	Process Control								
3	3EL413	Power System Operation and Control								

Professional Elective 2										
1	3EL414	Microcontroller Application in Electrical Engineering								
2	3EL415	Neural Network and Fuzzy Control								
3	3EL416	PLC and SCADA								

	Professional Elective 1 Lab									
1	3EL452	Advanced Power Electronics Lab								
2	3EL453	Process Control Lab								
3	3EL454	Power System Operation and Control Lab								

Professional Elective 2 Lab									
1	3EL455	Microcontroller Application in Electrical Engineering Lab							
2	3EL456	Neural Network and Fuzzy Control Lab							
3	3EL457	PLC and SCADA Lab							

	Open Elective 3									
1	1OE402 Finite Element Method									
2	10E416	Concrete Engineering and Technology								
3	10E417 Computational Methods and Optimization Techniques									
4	10E429	Automobile Engineering								
5	10E443	Industrial Automation								
6	10E457	Cyber Physical Systems								
7	10E471	Business Intelligence								
8	10E485	Data Visualization & Interpretation								



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Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

The Value Added Courses are Optional Courses. The mode of teaching (LTPI) is decided by the resource person.

The list of Value added courses will be updated from time to time. The courses may be on paid basis.

The credits earned from these courses will be shown on grade card. For SPI and CPI calculation, these courses will be excluded.

These courses will be offered as per availability of faculty

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

\$ Contact hours of each Final Year BTech project batch (of min 5 students) with the guide shall be 1 hour/week.

For further details refer to Academic and Examination rules and regulations.



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Credit System for Final Year B.Tech. (Electrical Engineering) Sem-VIII AY 2020-21

Sr.No.	Category	Course Code	Course Name		L	Τ	Р	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)													
1	HS	3IC401	Engineering Management and Ethics		4	0	0	4	4	10	30	10	50
Professional Core (Lab)													
2	PC	3EL492	Project 2		0	0	16	16	8	25	25	25	25
	Value Added Professional Courses #												
Value Added Life-Skill Courses #													
	Total 4 0 16 20 12												

Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

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