

Program: B.TECH. (ELECTRICAL)

Semester – VII CBCS 2021 Course

Sr. No.	Course Code	Name of Course	Teaching Scheme (Hrs./Week)			Examination Scheme (Marks)						Credits			
			L	P	T	UE	IA	TW	TW & OR	TW & PR	Total	L	P	T	Total
1		Power System Stability & Control	4	2	-	60	40	25	25	-	150	4	1	-	5
2		Industrial Drives & Applications	4	2	-	60	40	25	-	25	150	4	1	-	5
3		Power Quality Issues & Mitigation Techniques	4	2	-	60	40	25	25	-	150	4	1	-	5
4		Elective-I	4	2	-	60	40	25	25	-	150	4	1	-	5
5		*Energy Audit	-	2	1	-	-	25	25	-	50	-	1	1	2
6		Research Paper Publication	-	-	-	-	-	-	-	-	-	-	-	-	2
7		Project-II Stage-I	-	4	-	-	-	100	100	-	200	-	4	-	4
8		MOOC-III	-	-	-	-	-	-	-	-	-	-	-	-	2
		Total	16	14	1	240	160	225	200	25	850	16	9	1	30

* Industry Taught Course

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Semester – VIII CBCS 2021 Course

Sr. No.	Course Code	Name of Course	Teaching Scheme (Hrs./Week)			Examination Scheme (Marks)						Credits			
			L	P	T	UE	IA	TW	TW & OR	TW & PR	Total	L	P	T	Total
1		High Voltage power generation and measurement	4	2	-	60	40	25	25	-	150	4	1	-	5
2		Computer Aided Power System analysis	4	2	-	60	40	25	25	-	150	4	1	-	5
3		*Computer Networks	4	2	-	60	40	25	25	-	150	4	1	-	5
4		Elective-II	4	2	-	60	40	25	25	-	150	4	1	-	5
5		Electrical Codes & Standards	-	2	1	-	-	25	25	-	50	-	1	1	2
6		Social Activities-II	-	-	-	-	-	-	-	-	-	-	-	-	2
7		Project-II Stage-II	-	4	-	-	-	100	100	-	200	-	6	-	6
		Total	16	14	1	240	160	225	225	-	850	16	11	1	30

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Electives:

Elective-I		Elective-II	
Advanced Java	PHP	Digital Signal Processing	HVDC
.Net	PERL	Testing & Commissioning of Electrical Equipments	Energy Storage Systems
AI	Python	Utilization of Electrical Energy	Power System Planning and Restructuring
Industry 4.0	ANN	Robotics	Renewable Energy Systems
		Smart Grid	

MOOC-III

Sr. No.	Title of Course
1	Remote Sensing: Principles and Applications
2	Digital Signal Processing and its Applications
3	Optimization from fundamentals
4	Robotics and Control: Theory and Practice
5	Principles of Industrial Engineering
6	Nonlinear System Analysis
7	Transmission lines and electromagnetic waves
8	Nonlinear and Adaptive Control
9	High Power Multilevel Converters – Analysis, design and operational issues
10	Power System Dynamics, Control and Monitoring
11	Quality Design And Control
12	An Introduction to Artificial Intelligence
13	Deep Learning - IIT Ropar
14	Python for Data Science