(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416415



Credit System for T.Y. B.Tech. (Electrical Engineering) Sem-V and VI

2022-23



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Electrical Engineering) Sem-V AY 2022-23

Sr.No.	Category	Course Code	Course Name		L	T	Р	Ι	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)													
1	PC	5EL301	Power System Analysis and Stability			0	0	0	3	3	30	20	50	
2	PC	5EL302	Control System Engineering			0	0	0	2	2	30	20	50	
	Professional Core (Lab)													
3	PC	5EL351	Power System Analysis and Stability Lab		0	0	2	0	2	1	30	30	40	OE
4	PC	5EL352	Control System Engineering Lab		0	0	2	0	2	1	30	30	40	POE
5	PR	5EL345	Mini-Project-1			0	2	0	2	1	30	30	40	
6	PR	5EL346	Mini-Project-2			0	2	0	2	1	30	30	40	
7	HS	5HS301	Humanities-1: German Language			0	0	3	3	3	30	30	40	
			Professional Ele	ective (Theory))									
8	PE	Refer list	Elective-1		2	0	0	0	2	2	30	20	50	
9	PE	Refer list	Elective-2		2	0	0	0	2	2	30	20	50	
			Professional E	Elective (Lab)										
10	PE	Refer list	Elective-2 Lab		0	0	2	0	2	1	30	30	40	OE
Open Elective														
11	OE	Refer list	Open Elective-1		2	0	0	0	2	2	30	20	50	
12	OE	Refer list	Open Elective-2		3	0	0	0	3	3	30	20	50	
				Total	14	0	10	3	27	22				

Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The Y in the PoE indicates external component for ESE. For further details, refer to Academic and Examination rules and regulations.



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Electrical Engineering) Sem-V AY 2022-23

Sr.No.	Track	Course Code	Course Name							
	Elective-1									
1 Power System		5EL311	Illumination Engineering							
2	2 Control System		Digital Signal Processing							
3	Power Electronics and Drives	5EL313	Electromagnetic Field							
	Elective-2									
1	Power System	5EL314	Electrical Machine Design							
2	Control System	5EL315	Linear Algebra							
3	Power Electronics and Drives 5EL		Energy Storage Systems for EV							
		Elective-2	Lab							
1	1 Power System		Electrical Machine Design Lab							
2	2 Control System		Linear Algebra Lab							
3	3 Power Electronics and Drives 5EL355 Energy Storage Systems for EV Lab									



(Government Aided Autonomous Institute)

Open Elective Course List for T.Y. B.Tech. (Electrical Engineering) Sem-V AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name						
	Open Elective 1									
1 Civil 5 50E301 Basic Civil Engineering		Basic Civil Engineering								
2	Mech	5	50E330	Energy Engineering						
3	CSE	5	50E372	Data Science using Python						
4	IT	5	50E385	Joy of Python Programming						
			OI	pen Elective 2						
1	Civil	5	50E315	Application of Remote Sensing						
2	Mech	5	50E329	Non-conventional Machining Processes						
3	CSE	5	50E371	Software Engineering and Database Essentials						
4	IT	5	50E386	Cloud Computing System						



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Electrical Engineering) Sem-VI AY 2022-23

Sr.No.	Category	Course Code	Course Name				Р	Ι	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)													
1	PC	5EL321	Power System Protection		2	0	0	0	2	2	30	20	50	
2	PC	5EL322	Industrial Drives and Control		3	0	0	0	3	3	30	20	50	
3	PC	5EL323	Microcontroller and Applications		2	0	0	0	2	2	30	20	50	
	Professional Core (Lab)													
4	PC	5EL371	Power System Protection Lab		0	0	2	0	2	1	30	30	40	POE
5	PR	5EL347	Mini-Project-3				2	0	2	1	30	30	40	
6	PR	5EL348	Mini-Project-4 Industrial Drives and Control Lab				2	0	2	1	30	30	40	POE
7	PC	5EL372	Microcontroller and Applications Lab				2	0	2	1	30	30	40	POE
8	HS	5HS302	Humanities-2: Human Relations at Work		0	0	0	3	3	3	30	30	40	
	Professional Elective (Theory)													
9	PE	Refer list	Elective-3			0	0	0	2	2	30	20	50	
	Open Elective													
10	OE	Refer list	Open Elective-3		2	0	0	0	2	2	30	20	50	
11	OE	Refer list	Open Elective-4		3	0	0	0	3	3	30	20	50	
				Total	14	0	8	3	25	21				

Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (LA1, LA2, ESE). The ESE is a separate head of passing. The Y in the PoE indicates external component for ESE. For further details, refer to Academic and Examination rules and regulations.



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Electrical Engineering) Sem-VI AY 2022-23

Sr.No.	Track	Course Code	Course Name
		Elective	-3
1	Power System	5EL331	Artificial Neural Network
2	Control System	5EL332	Non Linear and Digital Control System
3	Power Electronics and Drives	5EL333	Introduction to Electric Vehicle



(Government Aided Autonomous Institute)

Open Elective Course List for T.Y. B.Tech. (Electrical Engineering) Sem-VI AY 2022-23

Sr.No.	Offering Dept	Sem	Course Code	Course Name						
	Open Elective 3									
1 Mech 6 50E336		50E336	3D Printing							
2	Eln	6	50E364	Cyber Physical System						
3	CSE	6	50E378	Fundamentals of Internet of Things						
4	IT	6	50E392	Web Development & Applications						
			OI	pen Elective 4						
1	Mech	6	50E337	Basics of Automobile Engineering						
2	Eln	6	50E365	Biomedical Engineering						
3	CSE	6	50E379	Artificial Intelligence and Machine Learning						
4	IT	6	50E393	Fundamentals Of Machine Learning						