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Vishrambag, Sangli. 416415



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

2022-23



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

Sr.No.	Category	<b>Course Code</b>	Course Name		L	Τ	Р	Ι	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)													
1	PC	5EN301	Digital Signal Processing				0	0	2	2	30	20	50	
2	PC	5EN302	Embedded System Design		2	0	0	0	2	2	30	20	50	
	Professional Core (Lab)													
3	PC	5EN351	Digital Signal Processing Lab		0	0	2	0	2	1	30	30	40	POE
4	PC	5EN352	Embedded System Design Lab		0	0	2	0	2	1	30	30	40	POE
5	PR	5EN345	Mini-Project-1		0	0	2	0	2	1	30	30	40	OE
6	PR	5EN346	Mini-Project-2			0	2	0	2	1	30	30	40	OE
7	HS	5HS302	Humanities-1: Human Relations at work		0	0	0	3	3	3	30	30	40	
	Professional Elective (Theory)													
8	PE	Refer list	Elective 1			1	0	0	3	3	30	20	50	
9	PE	Refer list	Elective 2		2	0	0	0	2	2	30	20	50	
			Professional El	lective (Lab)										
10	PE	Refer list	Elective-2 Lab		0	0	2	0	2	1	30	30	40	
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	13	1	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.



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

Sr.No.	Track	<b>Course Code</b>	Course Name							
	Elective 1									
1	Communication & Signal Processing	5EN311	Biomedical Instrumentation							
2 Embedded System & VLSI 5E			Microelectronics							
3	Communication & Signal Processing	Linear Algebra								
	Elective 2									
1	Communication & Signal Processing	5EN314	Information Theory and coding							
2	Embedded IoT and Networking	5EN315	Object Oriented Programming							
3	Embedded System & VLSI 5EN316		Computer Organization and Architecture							
		Elective-2	Lab							
1	Communication & Signal Processing	5EN353	Information Theory and Coding Lab							
2 Embedded IoT and Networking 5EN354		5EN354	Object Oriented Programming Lab							
3	3 Embedded System & VLSI 5EN355 Computer Organization and Architecture Lab									



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

Sr.No.	Offering Dept Sem Course Code Course Name			Course Name						
	Open Elective 1									
1	1 Mech 5 50E330 Energy Engineering		Energy Engineering							
2	Elect	5	50E343	Electrical Machine Technology						
3	CSE	5	50E372	Data Science using Python						
4	IT	5	50E385	Joy of Python Programming						
			Ol	pen Elective 2						
1	Mech	5	50E329	Non-conventional Machining Processes						
2	Elect	5	50E344	Industrial Instrumentation						
3	CSE	5	50E371	Software Engineering and Database Essentials						
4	IT	5	50E386	Cloud Computing System						



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

Sr.No.	Category	<b>Course Code</b>	Course Name		L	Т	Р	Ι	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)													
1	PC	5EN321	Electromagnetic Engineering		2	1	0	0	3	3	30	20	50	
2	PC	5EN322	FPGA based System Design		2	0	0	0	2	2	30	20	50	
	Professional Core (Lab)													
3	PC	5EN371	FPGA based System Design Lab		0	0	2	0	2	1	30	30	40	POE
4	PR	5EN347	Mini-Project-3		0	0	2	0	2	1	30	30	40	OE
5	PR	5EN348	Mini-Project-4		0	0	2	0	2	1	30	30	40	OE
6	HS	5HS301	Humanities-2: German Language		0	0	0	3	3	3	30	30	40	
	Professional Elective (Theory)													
7	PE	Refer list	Elective 3		2	0	0	0	2	2	30	20	50	
8	PE	Refer list	Elective 4		2	0	0	0	2	2	30	20	50	
			Professiona	l Elective (Lab)										
9	PE	Refer list	Elective 4 Lab		0	0	2	0	2	1	30	30	40	
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	13	1	8	3	25	21				

#### Notes:

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

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

Sr.No.	Track	<b>Course Code</b>	Course Name							
	Elective 3									
1 Embedded IoT and Networking		5EN331	Introduction to Machine Learning							
2 Communication & Signal Processing 5EN332 Optical			Optical Communication							
3	Embedded IoT and Networking5EN333Design and Analysis of Algorithm									
	Elective 4									
1	1Communication & Signal Processing51		Mobile Communication Engineering							
2	2 Embedded System & VLSI		CMOS Digital VLSI Design							
3	Communication & Signal Processing 5EN336 D		Digital Image Processing							
		Elective 4	Lab							
1	Communication & Signal Processing	5EN372	Mobile Communication Engineering Lab							
2 Embedded System & VLSI 5EN373 CMOS Digital VLSI Design Lab		CMOS Digital VLSI Design Lab								
3	3 Communication & Signal Processing 5EN374 Digital Image Processing Lab									



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

Sr.No.	<b>Offering Dept</b>	Sem	<b>Course Code</b>	Course Name						
	Open Elective 3									
1	1 Mech 6 5OE336 3D Printing		3D Printing							
2	Elect	6	50E350	Renewable Energy						
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	Elect	6	50E351	Energy Management						
3	CSE	6	50E379	Artificial Intelligence and Machine Learning						
4	IT	6	50E393	Fundamentals Of Machine Learning						