(Government Aided Autonomous Institute) Vishrambag, Sangli. 416415



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

2023-24



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Electronics Engineering) Sem-V AY 2023-24

Sr.No.	Category	Course Code	Course Name			P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core (Theory)									
1	PC	6EN301	Digital Signal Processing	3	0	0	0	3	3	30	20	50	
2	PC	6EN302	Embedded System Design	3	0	0	0	3	3	30	20	50	
3	PC	6EN303	Digital Communication Engineering	3	0	0	0	3	3	30	20	50	
			Professional Core (Lab)										
4	PC	6EN351	Digital Signal Processing Lab	0	0	2	0	2	1	30	30	40	POE
5	PC	6EN352	Embedded System Design Lab	0	0	2	0	2	1	30	30	40	POE
6	PC	6EN353	Digital Communication Engineering Lab	0	0	2	0	2	1	30	30	40	
7	PR	6EN341	Mini Project-1	0	0	2	0	2	1	30	30	40	OE
			Professional Elective (Theor	y)									
8	PE	Refer list	Elective-1	3	0	0	0	3	3	30	20	50	
9	PE	Refer list	Elective-2	2	1	0	0	3	3	30	20	50	
		da la	Open Elective										
10	PE	Refer list	Open Elective-1	3	0	0	0	3	3	30	20	50	
			Humanities										
11	HS	6EN354	Humanities I: Project Management			0	2	2	2	30	30	40	
12	HS	6HS301	Integrated/ Employability Skills Development-1			0	2	2	2	30	30	40	
			Total	17	1	8	4	30	26				

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.

DAC

\$

Dean Academics
Walbean Academics Engg.
Vishrambag, Sangli - 416 415

Page 2/5

Date: 25/07/2023

HoD



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Electronics Engineering) Sem-V AY 2023-24

Sr.No.	Track	Course Code	Course Name						
Professional Elective-1									
1	Communication & Signal Processing	6EN311	Biomedical Instrumentation						
2	Embedded System & VLSI	6EN312	Microelectronics						
3	Communication & Signal Processing	6EN313	Linear Algebra						
4	Embedded System & VLSI	6EN314	Automotive Electronics						
Professional Elective 2									
1	Embedded System & VLSI	6EN315	Object Oriented Programming						
2	Embedded IoT and Networking	6EN316	Data Analytics						
3	Communication & Signal Processing	6EN317	Optical Communication						

Open Elective Course List for T.Y. B.Tech. (Electronics Engineering) Sem-V AY 2023-24

Sr.No.	Offering Dept	Sem	Course Code	Course Name				
			Oj	pen Elective-1				
1	Civil	5	6OE301	Building Planning and Design				
2	Civil	5	6OE302	Diaster Management				
3	App. Mechanics	5	6OE315	Theory of structures				
4	Mechanical	5	6OE329	Non-Conventional Machining Processes				
5	Electrical	5	6OE343	Electrical Machine Technology				
6	Electronics*	5	6OE357	Introduction to Electronic Systems				
7	Electronics*	5	6OE358	Signals and Systems				
8	CSE	5	6OE371	Data Science				
9	IT	5	6OE385	Cloud Computing System				
10	IT	5	6OE386	Joy of Python Programming				
11	IT	5	6OE387	60E387 Data Science for Engineers				

^{*} Open Elective-1 offered by Electronics Dept. is allowed for students of all other departments (Except Electrical & Electronics Dept.)



HoD

Dean Academics Fings.
WDean Academics Fings.
Ashrambag, Sangii - 418 415

Page 3/5 Date: 25/07/2023



(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Electronics Engineering) Sem-VI AY 2023-24

Sr.No.	Category	Course Code	Course Name				P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
CEST LINE			Professional Core	(Theory)										
1	PC	6EN321	Electromagnetic Engineering			1	0	0	4	4	30	20	50	
2	PC	6EN322	Digital System Architecture		3	0	0	0	3	3	30	20	50	
3	PC	6EN323	Power Electronics		3	0	0	0	3	3	30	20	50	
			Professional Core	e (Lab)										
4	PC	6EN371	Digital System Architecture Lab				2	0	2	1	30	30	40	POE
5	PC	6EN372	Power Electronics Lab		0	0	2	0	2	1	30	30	40	POE
6	PR	6EN342	Mini Project-2		0	0	2	0	2	1	30	30	40	OE
			Professional Elective	e (Theory)										
7	PE	Refer list	Elective-3		3	0	0	0	3	3	30	20	50	
8	PE	Refer list	Elective-4				0	0	3	3	30	20	50	
			Open Electiv	ve										
9	OE	Refer list	Open Elective-2		3	0	0	0	3	3	30	20	50	
		·	Humanities	S										
10	HS	Refer list	Humanities-2		0	0	0	2	2	2	30	30	40	
11	HS	6HS302	Integrated/ Employability Skills Development-2				0	2	2	2	30	30	40	
			T	otal	17	2	6	4	29	26				

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.

DAC

B HoD

Dean Academics water academics tengg. Vishrambag, Sangli - 416 415

Page 4/5

Date: 25/07/2023



(Government Aided Autonomous Institute)

Elective Course List for T.Y. B.Tech. (Electronics Engineering) Sem-VI AY 2023-24

Sr.No.	Track	Course Code	Course Name	
		Professional Elec	ctive-3	
1	Communication & Signal Processing	6EN331	Mobile Communication Engineering	
2	Embedded System & VLSI	6EN332	Digital System Engineering	
3	Embedded IoT and Networking 6EN333 Design and Analysis of Algorithm			
		Professional Elec	ctive-4	
_ 1	Communication & Signal Processing	6EN334	Communication Network Protocols	
2	Embedded System & VLSI	6EN335	CMOS Digital VLSI Design	
3	Communication & Signal Processing 6EN336 Digital Image Processing			

Open Elective Course List for T.Y. B.Tech. (Electronics Engineering) Sem-VI AY 2023-24

Sr.No.	Offering Dept	Sem	Course Code	Course Name		
				Open Elective-2		
1	Civil	6	6OE308	Ecology		
2	Civil	6	6OE309	Solid Waste Management		
3	App. Mechanics	6	6OE322	Maintenance and Rehabilitation of Structures		
4	Mechanical	6	6OE336	Basics of Automobile Engineering		
5	Electrical	6	6OE350	Industrial Automation		
6	Electronics*	6	6OE364	Cyber Physical Systems		
7	Electronics*	6	6OE365	Biomedical Engineering		
8	CSE	6	6OE378	Soft Computing		
9	IT	6	6OE392	Web Development and Applications		
10	ΙΤ	6	6OE393	Fundamentals of Machine Learning		
11	П	6	6OE394	Remote Sensing and Geographical Information Systems		
				Humanities-2		
1	HS	6	6HS303	German Language		
2	HS	6	6HS304	French Language		
3	HS	6	6HS305	Japanese Language		
4	HS	6	6HS306	Entrepresentation in Fig. 1: Introduction to Entrepreneurship		

^{*} Open Elective-2 offered by Electronics Dept. is allowed for students of all other departments (Except Electronics Dept.)



\$

Dean Academics
Dean Academics Engg.
Walchand Sangli - 416 415

Page 5/5 Date: 25/07/2023

HoD