(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

T.Y. B.Tech. (Information Technology)

Sem-V and VI

AY 2023-24

(Government Aided Autonomous Institute)

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

Sr.No.	Category	Course Code	Course Name	L	T	P	1	Hrs	Сг	MSE/LA1	ISE/LA2	ESE	Ext
212			Professional Core (T	heory)	1."		V					
01	PC	6IT301	Database Engineering	3	0	0	0	3	3	30	20	50	
02	PC	6IT302	Operating System	3	0	0	0	3	3	30	20	50	
03	PC	6IT303	Computer Algorithm	3	0	0	0	3	3	30	20	50	
			Professional Core	(Lab)							2 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		LIE II
05	PR	6IT341	Mini-Project-2	0	0	2	0	2	1	30	30	40	POE
06	PC	6IT351	Database Engineering Lab	0	0	2	0	2	1	30	30	40	POE
07	PC	6IT352	Web Technology Lab	0	0	2	1	3	2	30	30	40	POE
08	PC	6IT353	Computer Algorithm Lab	0	0	2	0	2	1	30	30	40	
			Professional Elective (Theor	y)								
09	PE	Refer List	Professional Elective-1	3	0	0	0	3	3	30	20	50	
		فالمركبات فيات	Open Elective										
10	OE	Refer List	Open Elective-1	3	0	0	0	3	3	30	20	50	
			Humanities									8 - 81	
11	HS	6IT354	IT Project Management	0	0	0	2	2	2	30	30	40	
12	HS	6HS301	Integrated/ Employability Skills-1	0	0	0	2	2	2	30	30	40	
			Total	15	0	8	5	28	24				

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 POE/OE indicates external component for ESE.

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

Prof. B. S. Shetty DAC/Secretary, BoS

Dr. R. R. Rathod Head, Information Technology Dept./ Chairman, BoS Dr. Mrs. S. P. Sonavane Dean Academics Page No. 2/5 Date: 28/07/2023

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

Sr.No.	Track	Course Code	Course Name		
		Professional Elective-	1		
01	Data Science	6IT311	Graph Theory		
		6IT312	Blockchain Technology and Applications		
02	Network Technology	6IT313	Wireless Networks		
03	Interdicainline	6IT314	Natural Language Processing		
03	Interdisciplinary	6IT315	Geographical Information System		

Sr.No.	Offering Dept.	Course Code	Course Name
		tive-1	
01	Civil Engg.	6OE301	Building Planning and Design
02	Civil Engg.	6OE302	Disaster Management
03	Applied Mechanics Dept	6OE315	Theory of structures
04	Mechanical Engg.	6OE329	Non-Conventional Machining Processes
05	Electrical Engg.	6OE343	Electrical Machine Technology
06	Electronics Engg.	6OE357	Introduction to Electronic Systems
07	Electronics Engg.	6OE358	Signals and Systems
08	Computer Science and Engg.	6OE371	Data Science
09	Information Technology*	6OE385	Cloud Computing System
10	Information Technology*	6OE386	Joy of Python Programming
11	Information Technology*	6OE387	Data Science for Engineers

^{*} Open Elective-1 offered by Information Technology Dept. is allowed for students of all other departments (Except Information Technology & Computer Science & Engineering Dept.

Prof. B. S. Shetty DAC/Secretary, BoS Dr. R. R. Rathod Head, Information Technology Dept./ Chairman, BoS Dr. Mrs. S. P. Sonavane Dean Academics

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

Sr.No.	Category	Course Code	Course Name	L	T	P	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core (1	heory									
01	PC	6IT321	Unix Operating System	3	0	0	0	3	3	30	20	50	
02	PC	6IT322	Image Processing and Pattern Recognition	3	0	. 0	0	3	3	30	20	50	
03	PC	6IT323	Artificial Intelligence	3	0	0	0	3	3	30	20	50	
			Professional Core	(Lab)									
04	PC	6IT342	Project-1	0	0	4	0	4	2	30	30	40	POE
05	PC	6IT371	Unix Operating System Lab	0	0	2	0	2	1	30	30	40	POE
06	PC	6IT373	IT Practices Lab-1	0	0	2	0	2	1	30	30	40	POE
07	PC	6IT372	Parallel Computing Lab	0	0	2	1	3	2	30	30	40	
			Professional Elective	(Theor	y)								
08	PE	Refer List	Professional Elective-2	3	0	0	0	3	3	30	20	50	
			Open Elective		VIII								
09	OE	Refer List	Open Elective-2	3	0	0	0	3	3	30	20	50	
			Humanities						. 3				
10	HS	Refer List	Humanities-II	0	0	0	2	2	2	30	30	40	
11	HS	6HS302	Integrated/ Employability Skills-2	0	0	0	2	2	2	30	30	40	
			Total	15	0	10	5	30	25				

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 POE/OE indicates external component for ESE.

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

Prof. B. S. Shetty DAC/Secretary, BoS Dr. R. R. Rathod Head, Information Technology Dept./ Chairman, BoS Or. Mrs. S. P. Sonavane Dean Academics

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

Sr.No.	Track	Course Code	Course Name
		Professional Elective-2	
		6IT331	Soft Computing
01	Data Science	6IT332	Machine Learning
		6IT333	Artificial Neural Network
02	Network Technology	6IT334	Cloud Computing
03	Database Technology	6IT335	Advance Database Engineering
04	Interdisciplinary 6IT336 Spatial Data analysi		Spatial Data analysis

Sr.No.	Offering Dept.	Course Code	Course Name
		Open Electiv	ve-2
01	1 Civil Engg.		Ecology
02	Civil Engg.	6OE309	Solid Waste Management
03	Applied Mechanics Dept	6OE322	Maintenance and Rehabilitation of Structures
04	Mechanical Engg.*	6OE336	Basics of Automobile Engineering
05	Electrical Engg.	6OE350	Industrial Automation
06	Electronics Engg.	6OE364	Cyber Physical Systems
07	Electronics Engg.	6OE365	Biomedical Engineering
08	Computer Science and Engg.	6OE378	Soft Computing
09	Information Technology*	6OE392	Web Development and Applications
10	Information Technology*	6OE393	Fundamentals of Machine Learning
11	Information Technology*	6OE394	Remote Sensing and Geographical Information Systems

Sr.No.	Course Code	Course Name			
		Humanities-II			
01	6HS303	German Language			
02	6HS304	French Language			
03	6HS305	Japanese Language			
04	6HS306	Introduction to Entrepreneurship			

* Open Elective-2 offered by Information Technology Dept. is allowed for students of all other departments (Except Information Technology & Computer Science &

Engineering Dept.

Prof. B. S. Shetty DAC/Secretary, BoS

Dr. R. R. Rathod Head, Information Technology Dept./ Chairman, BoS

Dr. Mrs. S. P. Sonavane **Dean Academics**

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