(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

T.Y. B.Tech. (Civil Engineering)

Sem-V and VI

AY 2023-24



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

		Cic	ant system for the		T	P		Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
CrNo	Category	Course Code	Course Name	L									
Professional Core (1)			0		0	3	3	30	20	50			
01	PC	6CV301	Water Supply and Treatment Technology	3	0	0	0	3	3	30	20	50	
02	PC	6CV302	Soil Mechanics	3	0	0	0	3	3	30	20	50	
03	PC	6CV303	Transportation Engineering	3	0	0	0	3	3	30	20	50	
04	PC	6CV304	Design of Steel Structures	3 (1 ab)	U	0	O						
			Professional Core	250		2	0	2	1	30	30	40	PC
05	PC	6CV351	Water Quality Analysis Lab	0	0	2	0	2	1	30	30	40	0
06	PC	6CV352	Soil Mechanics Lab	0	0	2	0	2	1	30	30	40	0
07	PC	6CV353	Highway Materials and Traffic Engineering Lab	0	0	2	0	2	1	30	30	40	
08	PC	6CV355	Presentation and Report Writing Professional Elective (Theory) Professional Elective (Theory)										
00		ner to be the	Professional Elective		0	Το	Το	1 2	2	30	20	50	
08	PE	Refer List	Elective-1										
- 00			Open Elective		To	To	10	3	3	30	20	50	
109	OE	Refer List	Open Flective-1										
102		Humanities			Το	1 2	Το	2	1	30	30	40	
10	T HS	6HS301	Employability Skills 1	0	0	0	2	2	2	30	30	40	
12		Refer List	Humanities-1	0 17	0	8	4	29	25				
			Total	11/	U	0					H		

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.

Dr. A. K. Mali

Department Academic Coordinator

Dr. G. R. Munavalli

Head, Department of Civil Engineering

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

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

Sr. No.	Track	Course Code	
	IIdCK	Course Code	Course Name
Elective-1			
01	Transportation Engineering	6CV311	Remote Sensing and GIS
02	Environmental Engineering	6CV312	Plastic and Electronic Waste Management
03	Environmental Engineering	6CV313	Air and Noise Pollution Control
04	Infrastructure Engineering	6CV314	River Engineering
05	Infrastructure Engineering	6CV315	Advanced Surveying
06	Structural Engineering	6CV316	Structural Mechanics
07	Structural Engineering	6CV317	Advanced Concrete Technology
08	Infrastructure Engineering	6CV318	Airport Engineering

Sr.No.	Offering Dept.	Course Code	Course Name
Open Ele	ctive-1		
01	Civil Engg.*	60E301	Building Planning and Construction
02	Civil Engg.*	6OE302	Disaster Management
03	Applied Mechanics Dept *	60E315	Theory of structures
04	Mechanical Engg.	60E329	Non-Conventional Machining Processes
05	Electrical Engg.	60E343	Electrical Machine Technology
06	Electronics Engg.	60E357	Introduction to Electronic Systems
07	Electronics Engg.	60E358	Signals and Systems
08	CSE Engg.	60E371	Data Science
09	IT Engg.	60E385	Cloud Computing System
10	IT Engg.	60E386	Joy of Python Programming
11	IT Engg.	60E387	Data Science for Engineers

Sr.No.	Course Code	Course Name		
Humani	ties-1			
01	01 6HS303 German Language			
02	6HS304 French Language			
03	03 6HS305 Japanese Language			
04	04 6HS306 Introduction to Entrepreneurship			

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

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

Sr.No.	Category	Course Code	Course Name	L	T	Р	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)												
01	PC	6CV321	Waste Management and Pollution Control		0	0	0	3	3	30	20	50	
02	PC	6CV322	Quantity Survey and Valuation	3	0	0	0	3	3	30	20	50	
03	PC	6CV323	Foundation Engineering	3	0	0	0	3	3	30	20	50	
04	рс	6CV324	Design of Reinforced Concrete Structures	3	0	0	0	3	3	30	20	50	
			Professional Co	re (Lab)							10.	
05	PC	6CV371	Sewerage and Sewage Treatment Lab	0	0	2	0	2	1	30	30	40	OE
06	PC	6CV341	Mini-Project 2: Estimating and Costing	0	0	2	0	2	1	30	30	40	OE
07	PC	6CV342	Mini-Project 3: Design and Drawings of Steel Structures		0	2	0	2	1	30	30	40	OE
Professional Electi			e (The	eory)									
09	PE	Refer List	Elective-2		0	0	0	2	2	30	20	50	
Professional Elective (Lab)													
09	PE	Refer List	Elective Lab 1		0	2	0	2	1	30	30	40	,
			Open Elect	ive									
10	OE	Refer List	Open Elective-2		0	0	0	3	3	30	20	50	
	Humanities Humanities												
11	HS	6CV377	Humanities-2- Project Management	0	0	0	2	2	2	30	30	40	
11	HS	6HS302	Integrated/ Employability Skills-2	0	0	0	2	2	2	,			
			Total		0	8	4	29	25				

Notes:

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

Dr. G. R. Munavalli

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.

Dr. A. K. Mali

Department Academic Coordinator Head, Department of Civil Engineering

Dr. Mrs. S. P. Sonavane Dean Academics Page No. 07/13

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

Sr.No.	Track	Course Code	Course Name
Profession	onal Elective-2		
01	Environmental Engineering	6CV331	Industrial and Biomedical Waste Management
02	Environmental Engineering	6CV332	Advances in urban water distribution system
03	Hydraulics and Water Resources Engineering	6CV333	Watershed Management
04	Infrastructure Engineering	6CV334	Town and Country Planning
05	Infrastructure Engineering	6CV335	Design of Masonry Structures
06	Structural Engineering	6CV336	Advanced Structural Analysis
07	Transportation Engineering	6CV337	Bridge Engineering
Elective	Lab 1		
01	Structural Engineering	6CV372	Advanced Concrete Technology Lab
02	Environmental Engineering	6CV373	Municipal Solid Waste Management Lab
03	Infrastructure Engineering	6CV374	Design of Hydraulic Structure Lab
04	Infrastructure Engineering	6CV375	Advanced Surveying Lab
05	Infrastructure Engineering	6CV376	Foundation Engineering Lab
06	Structural Engineering	6CV378	Concrete Technology Lab##

Sr.No.	Offering Dept.	Course Code	Course Name					
	Open Elective-2							
01	Civil Engg.*	60E308	Ecology					
02	Civil Engg.*	60E309	Solid Waste Management					
03	Applied Mechanics Dept *	60E322	Maintenance and Rehabilitation of Structures					
04	Mechanical Engg.	60E336	Basics of Automobile Engineering					
05	Electrical Engg.	60E350	Industrial Automation					
06	Electronics Engg.	60E364	Cyber Physical Systems					
07	Electronics Engg.	60E365	Biomedical Engineering					
08	CSE	60E378	Soft Computing					
09	IT	60E392	Web Development and Applications					
10	IT	60E393	Fundamentals of Machine Learning					
11	IT	60E394	Remote Sensing and Geographical Information Systems					

^{*} Open Elective-2 offered by Civil Dept. is allowed for students of all other departments (Except Civil Dept.) ## - for this 2023-24 batch only

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Department Academic Coordinator

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