(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for
Final Year B.Tech. (Civil Engineering)
Sem-VII and VIII

AY 2023-24



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Credit System for Final Year B.Tech. (Civil Engineering) Sem-VII AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	Т	P	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core (T	heory)									
01	PC	5CV401	Estimating and Costing	2	0	0	0	2	2	30	20	50	
02	PC	5CV402	Reinforced and Prestressed Concrete Design	2	1	0	0	3	3	30	20	50	
03	PC	5CV404	Construction Project Management	3	0	0	0	3	3	30	20	50	
			Professional Core	(Lab)			n.					-11	
04	PC	5CV451	Construction Project Management Lab	0	0	2	0	2	1	30	30	40	
05	PC	5CV447	Mini-Project-4: Estimating and Costing	0	0	2	0	2	1	30	30	40	OE
06	PC	5CV448	Mini-Project-5: Concrete Structures Design and Drawings	0	0	2	0	2	1	30	30	40	OE
07	PR	5CV491	Project-I	0	0	6	0	6	3	30	30	40	OE
08	PC	5CV453	Techno-Socio Activity/Summer Internship	0	1	0	0	1	1	30	30	40	
			Professional Elective (Theor	y)			100					
09	PE	Refer List	Elective-4	3	0	0	0	3	3	30	20	50	
			Open Elective							B I H			7
10	OE	Refer List	Open Elective-5	3	0	0	0	3	3	30	20	50	
a T			Humanities										
11	HS	5CV403	Humanities-4: Legal, IPR, Safety	1	0	0	0	1	1	15	10	25	
HE COL				18 12		787			-				SOL IL
12	MC	5IC401	Constitution of India	2	0	0	0	2	0	30	20	50	
			Total	16	2	12	0	30	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 POE/OE indicates external component for ESE.

Minimum two AICTE mandatory courses need to be completed for award of degree.

The contact hours of guide for Final Year BTech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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

Dr. A. K. Mali

Department Academic Coordinator

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Elective Course List for Final Year B.Tech. (Civil Engineering) Sem-VII AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional	Elective-4		
01	Structural Engineering	5CV411	Advanced Structural Analysis
02	Environmental Engineering	5CV412	Advances in Water and Wastewater Treatment
03	Environmental Engineering	5CV413	Air Pollution and Control
04	Infrastructure Engineering	5CV414	Maintenance and Rehabilitation of Structures
05 Transportation Engineering		5CV415	Bridge and Airport Engineering

Sr.No.	Offering Dept.	Course Code	Course Name			
PER 1943		Open Elec	tive-5			
01	Civil Engg.*	50E415	Management for Engineers			
02	Applied Mechanics *	50E485	Structural Health Monitoring			
03	Mechanical Engg.	50E429	Industrial Automation			
04	Electrical Engg.	50E443	Industrial Automation (NPTEL)			
05	Electronics Engg.	50E457	Medical Image Processing			
06	CSE Engg.	50E471	Cyber Security			
07	IT Engg.	50E485	Data Visualization & Interpretation			

^{*} Open Elective-5 offered by Civil Dept. is allowed for students of all other departments (Except Civil Dept.)



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Credit System for Final Year B.Tech. (Civil Engineering) Sem-VIII AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	Р	1	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
I F			Professional Core (T	heory)				5	15.				
01	PC	5CV421	Engineering Economics and Valuation	2	0	0	0	2	2	30	20	50	
			Professional Core	(Lab)			181				FFIRT	100	
02	PR	5CV492	Project-II	0	0	12	0	12	6	30	30	40	OE
03	PC	5CV471	Structural Health Monitoring Lab	0	0	2	0	2	1	30	30	40	OE
			Professional Elective (Theor	y)					Teani.			P. L.
04	PE	Refer List	Elective-5	3	0	0	0	3	3	30	20	50	
05	PE	Refer List	Elective-6	3	0	0	0	3	3	30	20	50	
			Total	8	0	14	0	22	15				

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.

The contact hours of guide for Final Year BTech project are 4 hrs for Sem VII and 8 hours/week for Sem VIII, for 9 students.

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

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Elective Course List for Final Year B.Tech. (Civil Engineering) Sem-VIII AY 2023-24

Sr.No.	Track	Course Code	Course Name					
		Professional E	ilective5					
01 Structural Engineering		5CV431	Advanced Structural Design					
02	Structural Engineering	5CV432	Structural Health Monitoring					
03	Environmental Engineering	5CV433	Industrial Wastewater Treatment					
04	Infrastructure Engineering	5CV434	Contracts Management					
05	Transportation Engineering	5CV435	Intelligent Transportation systems					
06	Infrastructure Engineering	5CV436	Sustainable and Energy Efficient Building Technologies					
		Professional E	lective-6					
01	Structural Engineering	5CV437	Computer Applications in Structural Engineering					
02	Structural Engineering	5CV438	Geosynthetics And Reinforced Soil Structures					
03	Environmental Engineering	5CV439	Environmental Management Systems					
04	Transportation Engineering	5CV440	Construction Equipment and Techniques					
05	Transportation Engineering	5CV441	Tunnel and Harbour Engineering					
06	Transportation Engineering	5CV442	Highway Construction and Pavement Design					



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