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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	Р		Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
			Professional Core	(The	ory)								
01	PC	5CV401	Estimating and Costing		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 Co	re (La	b)								
04	PC	5CV451	Construction Project Management Lab	0	0	2	0	2	1	30	30	40	1
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	5CV455	Techno-Socio Activity/Summer Internship		1	0	0	1	1	30	30	40	
			Professional Elective	e (Th	eory								
09	PE	Refer List	Elective-4	3	0	0	0	3	3	30	20	50	
			Open Electi	ve									
10	OE	Refer List	Open Elective-5	3	0	0	0	3	3	30	20	50	
			Humanitie	S									
11	HS	5CV403	Humanities-4: Legal, IPR, Safety	1	0	0	0	1	1	15	10	25	
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 reg ation

Dr. A. K. Mali

Department Academic Coordinator Head, Department of Civil Engineering

Dr. Mrs. S. P. Sonavane Dean Academics

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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 Engineerin		Bridge and Airport Engineering	

Sr.No.	Offering Dept.	Course Code	Course Name					
Open Elective-5								
01	01 Civil Engg.* 50E415 N		Management for Engineers					
02	Applied Mechanics * 50E485		Structural Health Monitoring					
03	Mechanical Engg.	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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Department Academic Coordinator

Dr. G. R. Munavalli Head, Department of Civil Engineering Dr. Mrs. S. P. Sonavane Dean Academics

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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		Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
	Professional Core (Theory)												
01	PC	5CV425	Engineering Economics and Valuation		0	0	0	2	2	30	20	50	
	Professional Core (Lab)												
02	PR	5CV492	Project-II	0	0	12	0	12	6	30	30	40	OE
03	PC	5CV471	Structural Health Monitoring Lab		0	2	0	2	1	30	30	40	OE
	Professional Elective (Theory)												
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.

Dr. A. K. Mali

Department Academic Coordinator

Dr. G. R. Munavalli Head, Department of Civil Engineering

Dr. Mrs. S. P. Sonavane Dean Academics CO O T

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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 Elective5										
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 Elective-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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Dr. A. K. Mali Department Academic Coordinator Dr. G. R. Munavalli Head, Department of Civil Engineering Dr. Mrs. S. P. Sonavane Dean Academics Page No. 13/13

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