

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



Credit System for

Final Year B.Tech. (Civil Engineering)

Sem.-VII and VIII

Applicable to AY 2024-25 and AY 2025 -26

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Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/ LA1	ISE/L A2	ESE	Ext
Professional Core (Theory)												
01	PC	6CV401	Construction Methods and Equipment	3	0	0	3	3	30	20	50	
02	PC	6CV402	Reinforced and Prestressed Concrete Design	3	0	0	3	3	30	20	50	
Professional Core (Lab)												
03	PC	6CV445	Mini-Project-4: Construction Project Management	0	0	2	2	1	30	30	40	OE
04	PC	6CV446	Mini-Project-5: Design and Drawings of RC Structures	0	0	2	2	1	30	30	40	OE
05	PR	6CV491	Project-I	0	0	6	6	3	30	30	40	OE
06	PC	6CV453	Techno-Socio Activity/Summer Internship	0	2	0	2	2	30	30	40	
07	PC	6CV454	Problem-Based Lab	0	0	4	4	2	30	30	40	
Professional Elective (Theory)												
08	PE	Refer List	Elective- 3	3	0	0	3	3	30	20	50	
09	PE	Refer List	Elective- 4	3	0	0	3	3	30	20	50	
Open Elective												
10	OE	Refer List	Open Elective-3	3	0	0	3	3	30	20	50	
11	MC	6IC401	Constitution of India	2	0	0	2	0	30	20	50	
Total				17	2	14	33	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 an external component for ESE.

A minimum of two AICTE mandatory courses need to be completed for the award of the degree.

The contact hours of the guide for the Final Year BTech projects are 4 hrs for Sem VII and 8 hours/per 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. A. K. Kokane
J/C Dean Academics

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Sr. No.	Track	Course Code	Course Name
Professional Elective-3			
01	Environmental Engineering	6CV411	Urban Drainage Management
02	Infrastructure Engineering	6CV412	Building Information Modelling
03	Transportation Engineering	6CV413	Traffic Engineering and Management
04	Structural Engineering	6CV414	Analysis of Statically Indeterminate Structures
05	Transportation Engineering	6CV415	Tunnel, Dock and Harbour Engineering
Professional Elective-4			
01	Environmental Engineering	6CV416	Integrated Waste Management for a Smart City
02	Hydraulics and Water Resources Engineering	6CV417	Design of Hydraulic Structure
03	Transportation Engineering	6CV418	Highway Construction and Pavement Design
04	Infrastructure Engineering	6CV419	Maintenance and Rehabilitation of Structures
05	Structural Engineering	6CV420	Computer Applications in Structural Engineering



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Professional Core (Theory)													
01	PC	6CV421	Sustainable and Energy Efficient Building Technologies	2	0	0	2	2	30	20	50		
Professional Core (Lab)													
02	PR	6CV492	Project-II	0	0	12	12	6	30	30	40	OE	
Professional Elective (Theory)													
03	PE	Refer List	Elective-5	3	0	0	3	3	30	20	50		
04	PE	Refer List	Elective-6	3	0	0	3	3	30	20	50		
Humanities													
05	HS	6HS401	Humanities 3: Accounting and Finance for Engineers	2	0	0	2	2	30	20	50		
Total				10	0	12	22	16					

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 an external component for ESE.

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

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



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Sr. No.	Track	Course Code	Course Name
Professional Elective-5			
01	Structural Engineering	6CV431	Structural Health Monitoring
02	Environmental Engineering	6CV432	Industrial Wastewater Treatment
03	Geotechnical Engg	6CV433	Geosynthetics And Reinforced Soil Structures
04	Structural Engineering	6CV434	Advanced Structural Design
05	Structural Engineering	6CV435	Earthquake Engineering
Professional Elective-6			
01	Hydraulics and Water Resources Engineering	6CV436	Decentralized Water and Wastewater Treatment
02	Environmental Engineering/Geotechnical Engg	6CV437	Geo-Environmental Engineering
03	Infrastructure Engineering	6CV438	Contract Management
04	Structural Engineering	6CV439	Finite Element Method
05	Structural Engineering	6CV440	Design of Concrete Bridges



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