

Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)



Credit System for

Final Year B.Tech. (Civil Engineering)

Sem-VII and VIII

AY 2020-21



Walchand College of Engineering, Sangli

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Credit System for Final Year B.Tech. (Civil Engineering) Sem-VII AY 2020-21

Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE	
Professional Core (Theory)													
1	PC	3CV401	Engineering Economics and Valuation	3	0	0	3	3	10	30	10	50	
2	PC	3CV402	Construction Project Management	3	1	0	4	4	10	30	10	50	
3	PC	3CV403	Earthquake Engineering	3	0	0	3	3	10	30	10	50	
4	PC	3CV404	Design of Concrete Structures II	3	0	0	3	3	10	30	10	50	
Professional Core (Lab)													
5	PC	3CV452	Mini Project Construction Project Management	0	0	2	2	1	25	25	25	25	
6	PC	3CV454	Mini Project Concrete Structure Design and Drawing	0	0	4	4	2	25	25	25	25	
7	PC	3CV491	Project - I	0	0	8	8	4	25	25	25	25	
Professional Elective (Theory)													
8	PE	Refer list	Professional Elective 1	3	0	0	3	3	10	30	10	50	
Open Elective													
9	OE	Refer list	Open Elective 3	3	0	0	3	3	10	30	10	50	
Value Added Professional Courses #													
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Value Added Life-Skill Courses #													
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Total				18	1	14	33	26					



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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	3AM411	Advanced Structural Analysis
2	3AM412	Computer Applications in Structural Engineering
3	3CV411	Maintenance and Rehabilitation of Structures
4	3CV412	Advanced Water and Wastewater Treatment
5	3CV413	Bridge and Airport Engineering

Open Elective 3		
1	1OE402	Finite Element Method
2	1OE416	Concrete Engineering and Technology
3	1OE417	Computational Methods and Optimization Techniques
4	1OE429	Automobile Engineering
5	1OE443	Industrial Automation
6	1OE457	Cyber Physical Systems
7	1OE471	Business Intelligence
8	1OE485	Data Visualization and Interpretation

Notes:

* For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

The Value Added Courses are Optional Courses. The mode of teaching (LTPI) is decided by the resource person.

The list of Value added courses will be updated from time to time. The courses may be on paid basis.

The credits earned from these courses will be shown on grade card. For SPI and CPI calculation, these courses will be excluded.

These courses will be offered as per availability of faculty

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

\$ Contact hours of each Final Year BTech project batch (of min 5 students) with the guide shall be 1 hour/week.

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



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Credit System for Final Year B.Tech. (Civil Engineering) Sem-VIII AY 2020-21

Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE	
Professional Core (Theory)													
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Professional Core (Lab)													
1	PC	3CV492	Project -II	0	0	16	16	8	25	25	25	25	
2	PC	3CV493	Field Studies	0	1	0	1	1	25	25	25	25	
Professional Elective (Theory)													
3	PE	Refer list	Professional Elective 2	3	0	0	3	3	10	30	10	50	
Value Added Professional Courses #													
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Value Added Life-Skill Courses #													
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Total				3	1	16	20	12					



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Sr.No.	Course Code	Course Name
Professional Elective 2		
1	3AM431	Design of Concrete Bridges
2	3AM432	Advanced Structural Design
3	3CV431	Construction Practices
4	3CV432	Design of Unreinforced Masonry Structures
5	3CV433	Town and Country Planning
6	3CV434	Remote Sensing and GIS
7	3CV436	Municipal Solid Waste Management

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