Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for

T.Y. B.Tech. (Civil Engineering)
Sem-V and VI

AY 2020-21

Walchand College of Engineering, Sangli
(Government Aided Autonomous Institute)

Credit System for T.Y. B.Tech. (Civil Engineering) Sem-V   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	4CV301	Soil Mechanics	2	1	0	3	3	10	30	10	50
2	PC	4CV302	Water Supply and Treatment Technology	3	0	0	3	3	10	30	10	50
3	PC	4CV303	Design of Steel Structures	2	1	0	3	3	10	30	10	50
Professional Core (Lab)												
4	PC	4CV351	Environmental Engineering Laboratory	0	0	2	2	1	25	25	25	25
5	PC	4CV352	Soil Mechanics Laboratory	0	0	2	2	1	25	25	25	25
Professional Elective (Theory)												
6	HS	Refer list	Elective Foundation Course in Humanities	3	0	0	3	3	10	30	10	50
7	PC	Refer list	Professional Elective 1	2	1	0	3	3	10	30	10	50
Open Elective												
8	OE	Refer list	Open Elective 1	3	0	0	3	3	10	30	10	50
Value Added Professional Courses #												
--												
Value Added Life-Skill Courses #												
--												
			Total	**15**	**3**	**4**	**22**	**20**				

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Course List for T.Y. B.Tech. (Civil Engineering) Sem-V   AY 2020-21

Sr.No.	Course Code	Course Name
**Elective Foundation Course in Humanities**		
1	4HS301	Law and Engineering
2	4HS305	Foreign Language-German
3	4HS306	Human Relations at Work

**Professional Elective 1**		
1	4CV311	Construction Equipment and Techniques
2	4CV312	Structural Geology
3	4CV313	Computational Methods and Optimization Techniques
4	4CV314	Structural Mechanics

**Open Elective 1**		
1	4OE330	Energy Engineering
2	4OE343	Electrical Machine Technology
3	4OE357	Electronic Systems
4	4OE371	Software Engineering and Database Essentials
5	4OE385	The Joy of Computing using Python

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.

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

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Credit System for T.Y. B.Tech. (Civil Engineering) Sem-VI   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	4CV321	Estimating and Contracts	3	0	0	3	3	10	30	10	50
2	PC	4CV322	Foundation Engineering	2	1	0	3	3	10	30	10	50
3	PC	4CV323	Waste Management and Pollution Control	2	1	0	3	3	10	30	10	50
4	PC	4CV324	Design of Concrete Structures	2	1	0	3	3	10	30	10	50
Professional Core (Lab)												
5	PC	4CV371	Mini Project 2 Estimating and Costing	0	0	2	2	1	25	25	25	25
6	PC	4CV372	Mini Project 3 Structural Steel Design and Drawing	0	0	2	2	1	25	25	25	25
Professional Elective (Theory)												
7	PE	Refer list	Professional Elective 2	2	1	0	3	3	10	30	10	50
Open Elective												
8	OE	Refer list	Open Elective 2	3	0	0	3	3	10	30	10	50
Value Added Professional Courses #												
--												
Value Added Life-Skill Courses #												
--												
			Total	**14**	**4**	**4**	**22**	**20**				

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Course List for T.Y. B.Tech. (Civil Engineering) Sem-VI   AY 2020-21

Sr.No.	Course Code	Course Name
Professional Elective 2		
1	4CV331	Design of Hydraulic Structure
2	4CV332	Advanced Surveying
3	4CV333	Concrete Engineering

Sr.No.	Course Code	Course Name
Open Elective 2		
1	4OE309	Theory of Structures
2	4OE337	Joining Technology
3	4OE338	Mechanical Power Transmission
4	4OE350	Renewable Energy
5	4OE366	Biomedical Instrumentation
6	4OE378	Artificial Intelligence and Machine Learning
7	4OE395	Modern Application Development

Notes:

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