



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. Civil (Environmental Engineering) Semester-I 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	HS	4IC501	Research Methodology	2	0	0	2	2	10	30	10	50
2	PC	4EV501	Physico-Chemical Methods for Water and Wastewater Treatment	3	0	0	3	3	10	30	10	50
3	PC	4EV502	Municipal Solid Waste Management	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
4	PC	4EV551	Environmental Chemistry and Microbiology Lab	0	0	4	4	2	25	25	25	25
5	PC	4EV552	Water Treatability Studies Lab	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
6	PE	4EV***	Professional Elective 1	3	0	0	3	3	10	30	10	50
7	PE	4EV***	Professional Elective 2	3	0	0	3	3	10	30	10	50
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				16	0	8	24	18				

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) & evaluation scheme is decided by the resource person.

The list of Value added courses will be updated from time to time.

The course 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.

@ 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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Sr.No.	Course Code	Course Name
Professional Elective 1		
1	4EV511	Environmental Chemistry and Microbiology
2	4EV512	Geo-environmental Engineering
Professional Elective 2		
1	4EV515	Computational Methods and Optimization Techniques
2	4EV516	Water Quality Modeling



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Sr.No.	Category	Course Code	Course Name	L	T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	4EV521	Biological Methods for Wastewater Treatment	3	0	0	3	3	10	30	10	50
2	PC	4EV522	Air Pollution and Control	3	0	0	3	3	10	30	10	50
Professional Core (Lab)												
3	PC	4EV571	MSW Characterization and Air Quality Monitoring Lab	0	0	4	4	2	25	25	25	25
4	PC	4EV572	Wastewater Treatability Studies Lab	0	0	4	4	2	25	25	25	25
5	PC	4EV573	Industrial Project	0	0	4	4	2	25	25	25	25
Professional Elective (Theory)												
6	PE	4EV***	Professional Elective 3	3	0	0	3	3	10	30	10	50
7	PE	4EV***	Professional Elective 4	3	0	0	3	3	10	30	10	50
Mandatory Life Skill Courses												
8	MC	Refer list	Mandatory Life Skill Course	2	0	0	2	0	10	30	10	50
Value Added Professional Courses #												
9	VAPC	Refer list	Value Added Professional Courses					#				
Value Added Life-Skill Courses #												
10	VALS	Refer list	Value Added Life Skill Courses					#				
Total				14	0	12	26	18				

Notes:

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Sr.No.	Course Code	Course Name
Professional Elective 3		
1	4EV531	Environmental Management Systems
2	4EV533	Hazardous Waste Management
Professional Elective 4		
1	4EV536	Energy And Buildings
2	4EV537	Industrial Wastewater Pollution and Control