

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415



Credit System for F. Y. M. Tech. (Civil-Environmental Engineering) Semester-I and II

2022-23

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

Credit System for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-I AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark	
Professional Core (Theory)														
1	PC	6EV501	Research Methodology	2	0	0	0	2	2	30	30	40		
2	PC	6EV502	Physico-Chemical Methods for Water and Wastewater Treatment	3	0	0	0	3	3	30	20	50		
3	PC	6EV503	Municipal Solid Waste Management	3	0	0	0	3	3	30	20	50		
4	PC	6EV504	Hydraulics of Transport Systems in Environmental Engineering	3	0	0	0	3	3	30	20	50		
Professional Core (Lab)														
5	PR	6EV551	Environmental Chemistry and Microbiology Laboratory	0	0	2	1	3	2	30	30	40	POE	
6	PR	6EV552	Water Treatability Studies Laboratory	0	0	2	0	2	1	30	30	40	POE	
7	PR	6EV553	Modeling and Simulation Laboratory	0	0	2	0	2	1	30	30	40		
Professional Elective (Theory)														
8	PE		Professional Elective 1	3	0	0	0	3	3	30	20	50		
Total				14	0	6	1	21	18					


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Walchand College of Engineering, Sangli
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Professional Elective Course List for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-I AY 2022-23

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Water and Wastewater	6EV511	Water Quality Modeling
2	Environmental Management	6EV512	Energy Efficient Buildings

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 Y in the PoE indicates external component for ESE. Minimum two AICTE mandatory courses need to be completed for award of degree.

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

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Date:



Walchand College of Engineering, Sangli
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Credit System for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-II AY 2022-23

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
1	PC	6EV521	Project Management	3	0	0	0	3	3	30	20	50	
2	PC	6EV522	Biological Methods for Wastewater Treatment	3	0	0	0	3	3	30	20	50	
3	PC	6EV523	Air Pollution and Control	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
3	PR	6EV571	MSW Characterization and Air Quality Monitoring Laboratory	0	0	2	0	2	1	30	30	40	OE
4	PR	6EV572	Wastewater Treatability Studies Laboratory	0	0	2	0	2	1	30	30	40	POE
5	PR	6EV573	Pre-dissertation Work and Seminar	0	0	2	0	2	1	30	30	40	
Professional Elective (Theory)													
6	PE		Professional Elective 2	3	0	0	0	3	3	30	20	50	
7	PE		Professional Elective 3	3	0	0	0	3	3	30	20	50	
Open Elective													
8	OE		Open Elective	3	0	0	0	3	3	30	20	50	
Total				18	0	6	0	24	21				


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Professional Elective Course List for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-II AY 2022-23

Sr.No.	Track	Course Code	Course Name
Professional Elective 2			
1	Pollution Studies	6EV531	Industrial Wastewater Pollution and Control
2	Water and Wastewater	6EV532	Operation and Maintenance of Environmental Facilities
Professional Elective 3			
1	Environmental Management	6EV533	Environmental Management Systems
2	Pollution Studies	6EV534	Geo-Environmental Engineering
3	Environmental Management	6EV535	Emerging Technologies in Water and Wastewater Treatment


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Open Elective Course List for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-II AY 2022-23

Sr.No.	Offering Dept	Course Code	Course Name
1	Mech_Design	6OE503	Industrial Product Design
2	Mech_Heat	6OE504	Waste to Energy
3	Mech_Prod	6OE505	Advanced Production systems
4	Elect_Power	6OE506	Control Techniques for Electrical Drives
5	Elect_Control	6OE506	Control Techniques for Electrical Drives
6	Eln	6OE508	Introduction to Embedded Systems
7	CSE	6OE509	Machine Learning in Practice
8	IT	6OE510	Machine Learning & Applications

Notes:

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