

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

2023-24



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-I AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
1	PC	7IC501	Research Methodology and IPR	3	0	0	0	3	3	30	20	50	
2	PC	7EV501	Physico-Chemical Methods for Water and Wastewater Treatment	3	0	0	0	3	3	30	20	50	
3	PC	7EV502	Municipal Solid Waste Management	3	0	0	0	3	3	30	20	50	
4	PC	7EV503	Hydraulics of Transport Systems in Environmental Engineering	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
5	PC	7EV551	Environmental Chemistry and Microbiology Lab	0	0	2	0	2	1	30	30	40	
6	PC	7EV552	Water Treatability Studies Lab	0	0	2	0	2	1	30	30	40	
7	PC	7EV553	Modeling and Simulation Lab	0	0	2	0	2	1	30	30	40	
Professional Elective (Theory)													
8	PE	Refer List	Professional Elective 1	3	0	0	0	3	3	30	20	50	
9	PE	Refer List	Professional Elective 2	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-I AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Water and Wastewater	7EV511	Environmental Chemistry and Microbiology
2	Environmental Management	7EV512	Environmental Policies and Law
3	Environmental Management	7EV513	Advanced Numerical Methods
Professional Elective 2			
1	Water and Wastewater	7EV514	Water Quality Modeling
2	Environmental Management	7EV515	Energy Efficient Buildings
3	Pollution Studies	7EV516	Hazardous Waste Management

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.

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

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Credit System for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-II AY 2023-24

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark	
Professional Core (Theory)														
1	PC	7EV521	Biological Methods for Wastewater Treatment	3	0	0	0	3	3	30	20	50		
2	PC	7EV522	Air Pollution and Control	3	0	0	0	3	3	30	20	50		
3	PC	7EV523	Industrial Wastewater Pollution and Control	3	0	0	0	3	3	30	20	50		
Professional Core (Lab)														
4	PC	7EV571	MSW Characterization and Air Quality Monitoring Lab	0	0	2	0	2	1	30	30	40		
5	PC	7EV572	Wastewater Treatability Studies Lab	0	0	2	0	2	1	30	30	40		
6	PR	7EV545	Seminar	0	0	2	0	2	1	30	30	40		
Professional Elective (Theory)														
7	PE	Refer List	Professional Elective 3	3	0	0	0	3	3	30	20	50		
8	PE	Refer List	Professional Elective 4	3	0	0	0	3	3	30	20	50		
Open Elective														
9	OE	Refer List	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 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Environmental Management	7EV531	Project Management
2	Water and Wastewater	7EV532	Operation and Maintenance of Environmental Facilities
Professional Elective 4			
1	Environmental Management	7EV533	Environmental Management Systems
2	Pollution Studies	7EV534	Geo-Environmental Engineering
3	Environmental Management	7EV535	Emerging Technologies in Water and Wastewater Treatment

Open Elective Course List for F. Y. M. Tech. (Civil-Environmental Engineering) Sem-II AY 2023-24

Sr.No.	Offering Programme	Course Code	Course Name
1	Environmental Engg.*	7OE501	Solid Waste Management
2	Structural Engg.*	7OE502	Structural Health Monitoring
3	Design Engg.	7OE503	Industrial Product Design
4	Heat Power Engg.	7OE504	Waste to Energy
5	Production Engg.	7OE505	Advanced Production systems
6	Power System Engg.	7OE506	Control Techniques for Electrical Drives
7	Control System Engg	7OE506	Control Techniques for Electrical Drives
8	Electronics Engg.	7OE508	Introduction to Embedded Systems
9	Computer Science & Engg.	7OE509	Machine Learning in Practice
10	Information Technology	7OE510	Machine Learning & Applications

Notes:

*Open Elective offered by Civil (Environmental Engineering) Programme is allowed for students of all other Programmes (Except Environmental and Structural Engg. Programme)

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

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