

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415



**Credit System for
F. Y. M. Tech. (Manufacturing Engineering)**

Semester-I and II

AY 2025-26 Onwards

Credit System for F. Y. M. Tech. (Manufacturing Engineering) Sem-I AY 2025-26 Onwards

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
1	PC	IIC501	Research Methodology and IPR	3	0	0	0	3	3	30	20	50	
2	PC	1MF501	Manufacturing Processes	3	0	0	0	3	3	30	20	50	
3	PC	1MF502	Advanced Joining Technology	3	0	0	0	3	3	30	20	50	
4	PC	1MF503	Industrial Automation and Mechatronics	3	0	0	0	3	3	30	20	50	
Professional Elective (Theory)													
5	PC	1MF551	Manufacturing Processes Lab	0	0	2	0	2	1	30	30	40	
6	PC	1MF552	Advanced Joining Technology Lab	0	0	2	0	2	1	30	30	40	
7	PC	1MF553	Industrial Automation and Mechatronics Lab	0	0	2	0	2	1	30	30	40	
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				

Credit System for F. Y. M. Tech. (Manufacturing Engineering) Sem-II AY 2025-26 Onwards

Sr.No.	Category	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Remark
Professional Core (Theory)													
1	PC	1MF521	Advanced Manufacturing Processes	3	0	0	0	3	3	30	20	50	
2	PC	1MF522	Additive Manufacturing	3	0	0	0	3	3	30	20	50	
3	PC	1MF523	CAD/CAM/CNC	3	0	0	0	3	3	30	20	50	
Professional Elective (Theory)													
4	PC	IMF571	Advanced Manufacturing Processes Lab	0	0	2	0	2	1	30	30	40	
5	PC	IMF572	CAD/CAM and Prototype Manufacturing Lab	0	0	2	0	2	1	30	30	40	
6	PR	IMF545	Seminar	0	0	2	0	2	1	30	30	40	
Open Elective													
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	
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. (Manufacturing Engineering) Sem-I AY 2025-26 Onwards

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Industrial Engineering	1MF511	Quality Engineering for Manufacturing
2	Advanced Materials	1MF512	Manufacturing of Non-Metallic Products
3	Manufacturing Technology	1MF513	Industrial Hydraulics and Pneumatics
Professional Elective 2			
1	Industrial Engineering	1MF514	Project Management
2	Manufacturing Technology	1MF515	Precision Engineering
3	Manufacturing Technology	1MF516	Costing and cost Control

Professional Elective Course List for F. Y. M. Tech. (Manufacturing Engineering) Sem-II AY 2024-25

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Modelling and Simulation	1MF531	Product Lifecycle Management
2	Manufacturing Technology	1MF532	Modelling and Simulation in Manufacturing
3	Manufacturing Technology	1MF533	Design for Manufacturing and Assembly
4	Manufacturing Technology	1MF537	Lean Manufacturing
Professional Elective 4			
1	Industrial Engineering	1MF534	Advanced Tool Design
2	Advanced Materials	1MF535	Processing of Plastics and Composites
3	Manufacturing Technology	1MF536	Sustainable Manufacturing


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Dean Academics
1/11/26