

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415



**Credit System for
F. Y. M. Tech. Mechanical (Production Engineering)
Semester-I and II**

2023-24



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. Mechanical (Production) 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	7PR501	Manufacturing Processes	3	0	0	0	3	3	30	20	50	
3	PC	7PR502	Advanced Joining Technology	3	0	0	0	3	3	30	20	50	
4	PC	7PR503	Industrial Automation and Mechatronics	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
5	PC	7PR551	Manufacturing Processes Lab	0	0	2	0	2	1	30	30	40	
6	PC	7PR552	Advanced Joining Technology Lab	0	0	2	0	2	1	30	30	40	
7	PC	7PR553	Industrial Automation and Mechatronics 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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18/8/2023
Dean Academics
Walchand College of Engg.
Vishrambag, Sangli - 410 415



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Professional Elective Course List for F. Y. M. Tech. Mechanical (Production) Sem-I AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 1			
1	Industrial Engineering	7PR511	Quality Engineering for Manufacturing
2	Advanced Materials	7PR512	Manufacturing of Non Metallic Products
3	Manufacturing Technology	7PR513	Industrial Hydraulics and Pneumatics
Professional Elective 2			
1	Industrial Engineering	7PR514	Project Management
2	Manufacturing Technology	7PR515	Precision Engineering
3	Manufacturing Technology	7PR516	Costing and cost Control

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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Dean Academics
Walchand College of Engg.
Vishrambag, Sangli-415 435



Walchand College of Engineering, Sangli

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Credit System for F. Y. M. Tech. Mechanical (Production) 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	7PR521	Advanced Manufacturing Processes	3	0	0	0	3	3	30	20	50	
2	PC	7PR522	Additive Manufacturing	3	0	0	0	3	3	30	20	50	
3	PC	7PR523	CAD/CAM/CNC	3	0	0	0	3	3	30	20	50	
Professional Core (Lab)													
3	PC	7PR571	Advanced Manufacturing Processes Lab	0	0	2	0	2	1	30	30	40	
4	PC	7PR572	CAD/CAM and Prototype Manufacturing Lab	0	0	2	0	2	1	30	30	40	
5	PR	7PR545	Seminar	0	0	2	0	2	1	30	30	40	
Professional Elective (Theory)													
6	PE	Refer list	Professional Elective 3	3	0	0	0	3	3	30	20	50	
7	PE	Refer list	Professional Elective 4	3	0	0	0	3	3	30	20	50	
Open Elective													
8	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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21/8/2023
 Dean Academics
 Walchand College of Engg.
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Professional Elective Course List for F. Y. M. Tech. Mechanical (Production) Sem-II AY 2023-24

Sr.No.	Track	Course Code	Course Name
Professional Elective 3			
1	Modelling and Simulation	7PR531	Product Lifecycle Management
2	Manufacturing Technology	7PR532	Modelling and Simulation in Manufacturing
3	Manufacturing Technology	7PR533	Design for Manufacturing and Assembly
Professional Elective 4			
1	Industrial Engineering	7PR534	Advanced Tool Design
2	Advanced Materials	7PR535	Processing of Plastics and Composites
3	Manufacturing Technology	7PR536	Sustainable Manufacturing

Open Elective Course List for F. Y. M. Tech. Mechanical (Production) 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 Mech.(Production Engineering) Programme is allowed for students of all other Programmes (Except Design Engg., Heat Power Engg. and Production Engg. Programme)

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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Dean Academics
Walchand College of Engineering
Vishrambag, Sangli - 413 411