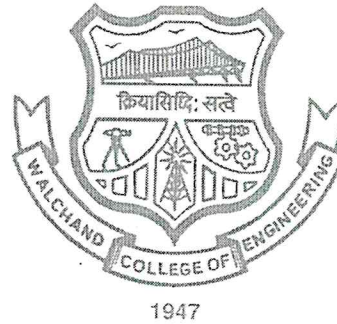


Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli-416415



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

Effective from AY 2024-25



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Manufacturing Engineering) Sem-I Effective from Effective from AY 2024-25

| Sr. No. | Category | Course Code | Course Name | L | T | P | Hrs. | Cr | MSE/LA1 | ISE/LA2 | ESE | Remark |
|---------------------------------------|----------|-------------|--|-----------|----------|----------|-----------|-----------|---------|---------|-----|--------|
| Professional Core (Theory) | | | | | | | | | | | | |
| 1 | PC | IIC501 | Research Methodology and IPR | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 2 | PC | 1MF501 | Manufacturing Processes | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 3 | PC | 1MF502 | Advanced Joining Technology | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 4 | PC | 1MF503 | Industrial Automation and Mechatronics | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Professional Core (Lab) | | | | | | | | | | | | |
| 5 | PC | 1MF551 | Manufacturing Processes Lab | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| 6 | PC | 1MF552 | Advanced Joining Technology Lab | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| 7 | PC | 1MF553 | Industrial Automation and Mechatronics Lab | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| Professional Elective (Theory) | | | | | | | | | | | | |
| 8 | PE | Refer list | Professional Elective 1 | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 9 | PE | Refer list | Professional Elective 2 | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Total | | | | 18 | 0 | 6 | 24 | 21 | | | | |

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

| 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 |


HoD


J/C Dean Academics



Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Credit System for F. Y. M. Tech. (Manufacturing Engineering) Sem-II Effective from AY 2024-25

| Sr. No. | Category | Course Code | Course Name | L | T | P | Hrs. | Cr | MSE/LA1 | ISE/LA2 | ESE | Remark |
|---------------------------------------|----------|-------------|---|-----------|----------|----------|-----------|-----------|---------|---------|-----|--------|
| Professional Core (Theory) | | | | | | | | | | | | |
| 1 | PC | 1MF521 | Advanced Manufacturing Processes | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 2 | PC | 1MF522 | Additive Manufacturing | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 3 | PC | 1MF523 | CAD/CAM/CNC | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Professional Core (Lab) | | | | | | | | | | | | |
| 3 | PC | 1MF571 | Advanced Manufacturing Processes Lab | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| 4 | PC | 1MF572 | CAD/CAM and Prototype Manufacturing Lab | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| 5 | PC | 1MF545 | Seminar | 0 | 0 | 2 | 2 | 1 | 30 | 30 | 40 | |
| Professional Elective (Theory) | | | | | | | | | | | | |
| 6 | PE | Refer list | Professional Elective 3 | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 7 | PE | Refer list | Professional Elective 4 | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Open Elective | | | | | | | | | | | | |
| 8 | OE | Refer list | Open Elective | 3 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Total | | | | 18 | 0 | 6 | 24 | 21 | | | | |

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 |
| 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