



Walchand College of Engineering
(Government Aided Autonomous Institute)

Credit System for Second Year B. Tech. (Mechanical Engineering)

Applicable to AY 2024-25 and onwards

Semester III

| Sr. No. | Category | Course Code | Course Name | L | T | P | I | Hr | Cr | MSE/LA1 | ISE/LA2 | ESE | Ext |
|-----------------------------------|----------|-------------|---|-----------|----------|----------|----------|-----------|-----------|---------|---------|-----|-----|
| Professional Core (Theory) | | | | | | | | | | | | | |
| 01 | PC | 7ME201 | Thermodynamics | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 02 | PC | 7ME202 | Material Science and Metallurgy | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 03 | PC | 7ME203 | Strength of Materials | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 04 | PC | 7ME204 | Manufacturing Process - I | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Professional Core (Lab) | | | | | | | | | | | | | |
| 05 | PC | 7ME251 | Thermodynamics Lab | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | POE |
| 06 | PC | 7ME252 | Material Science and Metallurgy Lab | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | POE |
| Mandatory Courses | | | | | | | | | | | | | |
| 07 | BSC | 7MA202 | Mathematics for Mechanical Engineers | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 08 | EEM | 7EE201 | Understanding Incubation and Entrepreneurship (NPTEL) | 3 | 0 | 0 | 0 | 3 | 3 | | | | |
| 09 | VEC | 7VE201 | Value Education | 2 | 0 | 0 | 0 | 2 | 2 | 30 | 20 | 50 | |
| 10 | VSEC | 7VSME251 | Workshop Practice | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 20 | 50 | |
| Total | | | | 20 | 0 | 6 | 0 | 26 | 23 | | | | |


Shri. S. D. Jagtap
DAC/Member Secretary, BoS


Dr. S. U. Sapkal
HOD / Chairman, BoS


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SEMESTER IV

| | Category | Course Code | Course Name | L | T | P | I | Hr | Cr | MSE/LA1 | ISE/LA2 | ESE | Ext |
|---------------------------------------|----------|-------------|--|----|---|---|---|----|----|---------|---------|-----|-----|
| Professional Core (Theory) | | | | | | | | | | | | | |
| 01 | PCC | 7ME221 | Fluid Mechanics and Fluid Machines | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 02 | PCC | 7ME222 | Kinematics and Theory of Machines | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 03 | PCC | 7ME223 | Manufacturing Processes - II | 3 | 0 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| Professional Core (Lab) | | | | | | | | | | | | | |
| 03 | PCC | 7ME271 | Fluid Mechanics and Fluid Machines Lab | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | POE |
| 04 | PCC | 7ME272 | Kinematics and Theory of Machines Lab | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | POE |
| Multi-Disciplinary Minor (MDM) | | | | | | | | | | | | | |
| 08 | MDM | Refer List | MDM | 2 | 0 | 0 | 1 | 3 | 3 | 30 | 20 | 50 | |
| Mandatory Courses | | | | | | | | | | | | | |
| 09 | ESC | 7ESME201 | Numerical Methods | 2 | 1 | 0 | 0 | 3 | 3 | 30 | 20 | 50 | |
| 10 | AEC | 7AE201 | Employability Skills | 2 | 0 | 0 | 0 | 2 | 2 | 30 | 20 | 40 | |
| 11 | IKS | Refer List | IKS Elective | 2 | 0 | 0 | 0 | 2 | 2 | 30 | 20 | 50 | |
| 12 | VSEC | 7VS271 | Computer Aided Design and Drafting Lab | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | POE |
| 13 | CEP/FP | 7CE271 | Field Study | 0 | 0 | 2 | 0 | 2 | 1 | 30 | 30 | 40 | |
| Total | | | | 17 | 1 | 8 | 1 | 27 | 23 | | | | |

[Signature]
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