



# Walchand College of Engineering

(Government Aided Autonomous Institute)

## Credit System for Third Year B. Tech. (Mechanical Engineering)

Applicable from AY 2025-26 onwards

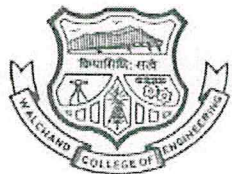
### Semester V

| Sr. No.                        | Category | Course Code | Course Name                                            | L  | T | P | Hr | Cr | MSE/LA1 | ISE/LA2 | ESE | Ext |
|--------------------------------|----------|-------------|--------------------------------------------------------|----|---|---|----|----|---------|---------|-----|-----|
| Professional Core (Theory)     |          |             |                                                        |    |   |   |    |    |         |         |     |     |
| 01                             | PCC      | 7ME301      | Heat Transfer                                          | 3  | 0 | 0 | 3  | 3  | 30      | 20      | 50  |     |
| 02                             | PCC      | 7ME302      | Applied Thermodynamics                                 | 3  | 0 | 0 | 3  | 3  | 30      | 20      | 50  |     |
| 03                             | PCC      | 7ME303      | Engineering Metrology                                  | 2  | 0 | 0 | 2  | 2  | 30      | 20      | 50  |     |
| 04                             | PCC      | 7ME304      | Design of Machine Elements                             | 2  | 1 | 0 | 3  | 3  | 30      | 20      | 50  |     |
| Professional Core (Lab)        |          |             |                                                        |    |   |   |    |    |         |         |     |     |
| 04                             | PCC      | 7ME351      | Heat Transfer Lab                                      | 0  | 0 | 2 | 2  | 1  | 30      | 30      | 40  | POE |
| 05                             | PCC      | 7ME352      | Applied Thermodynamics Lab                             | 0  | 0 | 2 | 2  | 1  | 30      | 30      | 40  | POE |
| 06                             | PCC      | 7ME353      | Engineering Metrology and Manufacturing Technology Lab | 0  | 0 | 2 | 2  | 1  | 30      | 30      | 40  | POE |
| Open Elective                  |          |             |                                                        |    |   |   |    |    |         |         |     |     |
| 07                             | OE       | Refer List  | Open Elective -1                                       | 3  | 0 | 0 | 3  | 3  | 30      | 20      | 50  |     |
| Multi-Disciplinary Minor (MDM) |          |             |                                                        |    |   |   |    |    |         |         |     |     |
| 08                             | MDM      | Refer List  | MDM                                                    | 3  | 0 | 0 | 3  | 3  | 30      | 20      | 50  |     |
| Mandatory Courses              |          |             |                                                        |    |   |   |    |    |         |         |     |     |
| 09                             | VEC      | 7VE301      | Environmental Science                                  | 2  | 0 | 0 | 2  | 2  | 30      | 20      | 50  |     |
|                                |          |             | Total                                                  | 18 | 1 | 6 | 25 | 22 |         |         |     |     |

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

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

  
Dr. A.K. Kokane  
Dean Academics  

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### Semester VI

| Sr. No.                        | Category | Course Code | Course Name                                         | L  | T | P | Hr | Cr | MSE/ LA1 | ISE/ LA2 | ESE | Ext |
|--------------------------------|----------|-------------|-----------------------------------------------------|----|---|---|----|----|----------|----------|-----|-----|
| Professional Core (Theory)     |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 01                             | PCC      | 7ME321      | Machine Design                                      | 3  | 0 | 0 | 3  | 3  | 30       | 20       | 50  |     |
| 02                             | PCC      | 7ME322      | Mechatronics and Automation                         | 3  | 0 | 0 | 3  | 3  | 30       | 20       | 50  |     |
| 03                             | PCC      | 7ME323      | Computational Methods for Structures and Fluids     | 2  | 0 | 0 | 2  | 2  | 30       | 20       | 50  |     |
| Professional Core (Lab)        |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 04                             | PCC      | 7ME371      | Mechatronics and Automation Lab                     | 0  | 0 | 2 | 2  | 1  | 30       | 30       | 40  | POE |
| 05                             | PCC      | 7ME372      | Computational Methods for Structures and Fluids Lab | 0  | 0 | 2 | 2  | 1  | 30       | 30       | 40  | POE |
| Professional Elective          |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 06                             | PEC      | Refer List  | Professional Elective -1                            | 3  | 0 | 0 | 3  | 3  | 30       | 20       | 50  |     |
| Open Elective                  |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 07                             | OE       | Refer List  | Open Elective -2                                    | 3  | 0 | 0 | 3  | 3  | 30       | 20       | 50  |     |
| Multi-Disciplinary Minor (MDM) |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 08                             | MDM      | Refer List  | MDM                                                 | 3  | 0 | 0 | 3  | 3  | 30       | 20       | 50  |     |
| 09                             | MDM      | Refer List  | MDM Lab                                             | 0  | 0 | 2 | 2  | 1  | 30       | 30       | 40  |     |
| Mandatory Courses              |          |             |                                                     |    |   |   |    |    |          |          |     |     |
| 10                             | EEM      | 7EE301      | Engineering Economics & Financial Management        | 2  | 0 | 0 | 2  | 2  | 30       | 20       | 50  |     |
| 11                             | VSEC     | 7VSME371    | Mini-Project                                        | 0  | 0 | 2 | 2  | 1  | 30       | 30       | 40  | OE  |
|                                |          |             | Total                                               | 19 | 0 | 8 | 27 | 23 |          |          |     |     |

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### Professional Elective Course List for T.Y. B.Tech. (Mechanical Engineering) Sem-VI AY 2025-26

| Sr. No                  | Course Code | Course Name                   |
|-------------------------|-------------|-------------------------------|
| Professional Elective-1 |             |                               |
| 01                      | 7ME331      | CAD/CAM                       |
| 02                      | 7ME332      | Product Life cycle Management |
| 03                      | 7ME333      | Computer Aided Manufacturing  |
| 04                      | 7ME334      | Additive Manufacturing        |

  
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