

Bachelor of Vocation (B.Voc.) Mechanical Manufacturing Technology Model Syllabus

This is a university-style model syllabus with subject codes, credits, and marks distribution. Institutions may adapt it according to local regulations and industry requirements.

Semester I

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT101 | Engineering Mathematics | 4 | 70+30

MMT102 | Engineering Physics | 4 | 70+30

MMT103 | Workshop Technology | 5 | 60+40

MMT104 | Engineering Drawing | 4 | 60+40

MMT105 | Communication Skills | 3 | 70+30

Total Credits: 20

Semester II

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT201 | Material Science | 4 | 70+30

MMT202 | Manufacturing Processes | 5 | 60+40

MMT203 | Machine Tools & Operations | 5 | 60+40

MMT204 | Computer Applications | 3 | 70+30

MMT205 | Environmental Studies | 2 | 70+30

Total Credits: 19

Semester III

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT301 | Metrology & Quality Control | 4 | 70+30

MMT302 | CNC Technology | 5 | 60+40

MMT303 | Production Planning & Control | 4 | 70+30

MMT304 | Hydraulics & Pneumatics | 4 | 70+30

MMT305 | Industrial Training-I | 6 | 50+50

Total Credits: 23

Semester IV

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT401 | Advanced Manufacturing | 5 | 60+40

MMT402 | CAD/CAM | 5 | 60+40

MMT403 | Maintenance Engineering | 4 | 70+30

MMT404 | Industrial Safety | 3 | 70+30

MMT405 | Industrial Training-II | 6 | 50+50

Total Credits: 23

Semester V

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT501 | Automation & Robotics | 5 | 60+40

MMT502 | Lean Manufacturing | 4 | 70+30

MMT503 | Tool Design | 4 | 70+30
MMT504 | Entrepreneurship Development | 3 | 70+30
MMT505 | Project Phase-I | 6 | 50+50
Total Credits: 22

Semester VI

Subjects, Credits and Marks Distribution

Code | Subject | Credits | Marks (Ext+Int)

MMT601 | Industry 4.0 in Manufacturing | 4 | 70+30
MMT602 | Supply Chain Management | 4 | 70+30
MMT603 | Quality Systems & Standards | 4 | 70+30
MMT604 | Project Phase-II | 10 | 50+50
MMT605 | Comprehensive Viva Voce | 2 | 50+50

Total Credits: 24

Evaluation Scheme

Theory courses: 70 marks End Semester Examination + 30 marks Internal Assessment.

Practical/Lab courses: 60 marks Practical Examination + 40 marks Continuous Assessment.

Industrial Training and Project Work are evaluated through reports, presentations and viva voce.