

| Maharashtra State Board Of Technical Education, Mumbai | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------------|-------------|-------------|------------------------|--------------------------|----|-----------|---|-----------------------------|-----------|--------------------------------|-------------------|------------|------------|------------------|------------|-----|------------|------------------------|------------|-----|-------------|
| Learning and Assessment Scheme for Post S.S.C Diploma Courses | | | | | | | | | | | | | | | | | | | | | | | |
| Programme Name | | : Diploma In Mechanical Engineering | | | | | | | | | | With Effect From Academic Year | | : 2023-24 | | | | | | | | | |
| Programme Code | | : ME | | | | | | | | | | Duration | | : 16 WEEKS | | | | | | | | | |
| Duration Of Programme | | : 6 Semester | | | | | | | | | | Scheme | | : K | | | | | | | | | |
| Semester | | : Sixth | | | | | | | | | | NCrF Entry Level : 4.0 | | | | | | | | | | | |
| Sr No | Course Title | Abbreviation | Course Type | Course Code | Total IKS Hrs for Sem. | Learning Scheme | | | | | Credits | Paper Duration (hrs.) | Assessment Scheme | | | | | | | | | | Total Marks |
| | | | | | | Actual Contact Hrs./Week | | | Self Learning (Activity/Assignment / Micro Project) | Notional Learning Hrs /Week | | | Theory | | | Based on LL & TL | | | | Based on Self Learning | | | |
| | | | | | | CL | TL | LL | | | | | FA-TH | SA-TH | Total | | FA-PR | | SA-PR | | SLA | | |
| | | | | | | | | | | | | | | | Max | Min | Max | Min | Max | Min | Max | Min | |
| (All Compulsory) | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | MANAGEMENT | MAN | AEC | 315301 | 1 | 3 | - | - | 1 | 4 | 2 | 1.5 | 30 | 70*# | 100 | 40 | - | - | - | - | 25 | 10 | 125 |
| 2 | DESIGN OF MACHINE ELEMENTS | DME | DSC | 316357 | - | 4 | - | 2 | 2 | 8 | 4 | 4 | 30 | 70 | 100 | 40 | 25 | 10 | 25# | 10 | 25 | 10 | 175 |
| 3 | INDUSTRIAL ENGINEERING AND QUALITY CONTROL | IEQ | DSC | 316362 | - | 4 | - | 2 | 2 | 8 | 4 | 3 | 30 | 70 | 100 | 40 | 25 | 10 | - | - | 25 | 10 | 150 |
| 4 | INDUSTRIAL HYDRAULICS AND PNEUMATICS | IHP | DSC | 316363 | - | 4 | - | 2 | - | 6 | 3 | 3 | 30 | 70 | 100 | 40 | 25 | 10 | 25# | 10 | - | - | 150 |
| 5 | 3D MODELLING AND ADDITIVE MANUFACTURING | 3DM | SEC | 316013 | - | - | - | 4 | - | 4 | 2 | - | - | - | - | - | 25 | 10 | 25# | 10 | - | - | 50 |
| 6 | CAPSTONE PROJECT | CPE | INP | 316004 | - | - | - | 2 | 2 | 4 | 2 | - | - | - | - | - | 50 | 20 | 50# | 20 | 50 | 20 | 150 |
| Elective - II (Any - One) | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | COMPUTER INTEGRATED MANUFACTURING SYSTEMS | CIM | DSE | 316359 | - | 4 | - | 2 | - | 6 | 3 | 3 | 30 | 70 | 100 | 40 | 25 | 10 | 25# | 10 | - | - | 150 |
| | ALTERNATIVE ENERGY SOURCES AND ENERGY MANAGEMENT | AEM | DSE | 316364 | - | 4 | - | 2 | - | 6 | 3 | 3 | 30 | 70 | 100 | 40 | 25 | 10 | 25# | 10 | - | - | 150 |
| | COLD CHAIN MANAGEMENT | CCM | DSE | 316365 | 2 | 4 | - | 2 | - | 6 | 3 | 3 | 30 | 70 | 100 | 40 | 25 | 10 | 25# | 10 | - | - | 150 |
| Total | | | | | 3 | 19 | | 14 | 7 | | 20 | | 150 | 350 | 500 | | 175 | | 150 | | 125 | | 950 |
| Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination Note : 1. FA-TH represents average of two class tests of 30 marks each conducted during the semester. 2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester. 3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work. 4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks | | | | | | | | | | | | | | | | | | | | | | | |

| Sr No | Course Title | Abbreviation | Course Type | Course Code | Total IKS Hrs for Sem. | Learning Scheme | | | Credits | Assessment Scheme | | | | | | | | | | |
|--|--------------|--------------|-------------|-------------|------------------------|--------------------------|----|----|---------|--|-----------------------------|-----------------------|--------|-------|-------|------------------|-------|------------------------|-----|-------------|
| | | | | | | Actual Contact Hrs./Week | | | | Self Learning (Activity/ Assignment / Micro Project) | Notional Learning Hrs /Week | Paper Duration (hrs.) | Theory | | | Based on LL & TL | | Based on Self Learning | | Total Marks |
| | | | | | | CL | TL | LL | | | | | FA-TH | SA-TH | Total | Practical | | SLA | | |
| | | | | | | | | | | | | | | | | FA-PR | SA-PR | Max | Min | |
| 5. 1 credit is equivalent to 30 Notional hrs. 6. * Self learning hours shall not be reflected in the Time Table. 7. * Self learning includes micro project / assignment / other activities. Course Category : Discipline Specific Course Core (DSC) , Discipline Specific Elective (DSE) , Value Education Course (VEC) , Intern./Apprenti./Project./Community (INP) , Ability Enhancement Course (AEC) , Skill Enhancement Course (SEC) , Generic Elective (GE) | | | | | | | | | | | | | | | | | | | | |