

| Maharashtra State Board Of Technical Education, Mumbai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       |       |                  |       |     |       |                        |             |     |     |     |     |     |  |  |
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| Learning and Assessment Scheme for Post S.S.C Diploma Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       |       |                  |       |     |       |                        |             |     |     |     |     |     |  |  |
| Programme Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | : Diploma In Digital Electronics / Electronics & Tele-communication Engg. / Electronics & Communication Engg. / Electronics Engineering / Industrial Electronics |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       |       |                  |       |     |       |                        |             |     |     |     |     |     |  |  |
| Programme Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | : DE / EJ / ET / EX / IE                                                                                                                                         |             |             |                        |                          |    |    |                                                     |                             |                       | With Effect From Academic Year |                   |       |       | 2023-24          |       |     |       |                        |             |     |     |     |     |     |  |  |
| Duration Of Programme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               | : 6 Semester                                                                                                                                                     |             |             |                        |                          |    |    |                                                     |                             |                       | Duration                       |                   |       |       | : 16 WEEKS       |       |     |       |                        |             |     |     |     |     |     |  |  |
| Semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               | : Fourth                                                                                                                                                         |             |             |                        |                          |    |    |                                                     |                             |                       | NCrF Entry Level : 3.5         |                   |       |       | Scheme           |       |     |       | : K                    |             |     |     |     |     |     |  |  |
| 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 |                                                     |                             |                       |                                |                   |       |       | Practical        |       |     |       |                        |             |     |     |     |     |     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                | FA-TH             | SA-TH | Total |                  | FA-PR |     | SA-PR |                        |             | SLA |     |     |     |     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       | Max   | Max              | Max   | Min | Max   |                        |             | Min | Max | Min | Max | Min |  |  |
| (All Compulsory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       |       |                  |       |     |       |                        |             |     |     |     |     |     |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ENVIRONMENTAL EDUCATION AND SUSTAINABILITY    | EES                                                                                                                                                              | VEC         | 314301      | 2                      | 3                        | -  | -  | 1                                                   | 4                           | 2                     | 1.5                            | 30                | 70*#  | 100   | 40               | -     | -   | -     | -                      | 25          | 10  | 125 |     |     |     |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DIGITAL COMMUNICATION SYSTEMS                 | DCS                                                                                                                                                              | DSC         | 314326      | -                      | 4                        | -  | 4  | 2                                                   | 10                          | 5                     | 3                              | 30                | 70    | 100   | 40               | 50    | 20  | 25#   | 10                     | 25          | 10  | 200 |     |     |     |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CONSUMER ELECTRONIC SYSTEMS                   | CEL                                                                                                                                                              | DSC         | 314327      | -                      | 3                        | -  | 4  | 1                                                   | 8                           | 4                     | 3                              | 30                | 70    | 100   | 40               | 25    | 10  | 25@   | 10                     | 25          | 10  | 175 |     |     |     |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MICROCONTROLLER & APPLICATIONS                | MAA                                                                                                                                                              | DSE         | 314328      | -                      | 3                        | -  | 4  | 1                                                   | 8                           | 4                     | 3                              | 30                | 70    | 100   | 40               | 25    | 10  | 25#   | 10                     | 25          | 10  | 175 |     |     |     |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BASIC POWER ELECTRONICS                       | BPE                                                                                                                                                              | DSC         | 314363      | -                      | 3                        | -  | 2  | 1                                                   | 6                           | 3                     | 3                              | 30                | 70    | 100   | 40               | 25    | 10  | 25@   | 10                     | 25          | 10  | 175 |     |     |     |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ELECTRONIC EQUIPMENT MAINTENANCE & SIMULATION | MEE                                                                                                                                                              | SEC         | 314009      | -                      | -                        | -  | 4  | -                                                   | 4                           | 2                     | -                              | -                 | -     | -     | 25               | 10    | 25@ | 10    | -                      | -           | 50  |     |     |     |     |  |  |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                                                                                                                                                  |             |             | 2                      | 16                       |    | 18 | 6                                                   |                             | 20                    |                                | 150               | 350   | 500   |                  | 150   |     | 125   |                        | 125         |     | 900 |     |     |     |  |  |
| <b>Abbreviations :</b> CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment<br><b>Legends :</b> @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination<br><b>Note :</b><br>1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.<br>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.<br>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.<br>4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks<br>5. 1 credit is equivalent to 30 Notional hrs.<br>6. * Self learning hours shall not be reflected in the Time Table.<br>7. * Self learning includes micro project / assignment / other activities.<br><b>Course Category :</b> Discipline Specific Course Core (DSC) , Discipline Specific Elective (DSE) , Value Education Course (VEC) , Intern./Apprenti./Project./Community (INP) , AbilityEnhancement Course (AEC) , Skill Enhancement Course (SEC) , GenericElective (GE) |                                               |                                                                                                                                                                  |             |             |                        |                          |    |    |                                                     |                             |                       |                                |                   |       |       |                  |       |     |       |                        |             |     |     |     |     |     |  |  |