

| 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 Artificial Intelligence / Artificial Intelligence and Machine Learning / Cloud Computing and Big Data / Computer Technology / Computer Engineering / Computer Science & Engineering / Data Sciences / Computer Hardware & Maintenance / Information Technology / Computer Science & Information Technology / Computer Science |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |                  |       |     |     |                        |             |     |     |     |     |  |  |  |
| Programme Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              | : AI / AN / BD / CM / CO / CW / DS / HA / IF / IH / SE                                                                                                                                                                                                                                                                                     |             |             |                        |                          |    |    |                                                     |                             |         | With Effect From Academic Year |        |       |       | : 2023-24        |       |     |     |                        |             |     |     |     |     |  |  |  |
| Duration Of Programme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              | : 6 Semester                                                                                                                                                                                                                                                                                                                               |             |             |                        |                          |    |    |                                                     |                             |         | Duration                       |        |       |       | : 16 WEEKS       |       |     |     |                        |             |     |     |     |     |  |  |  |
| Semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              | : Second                                                                                                                                                                                                                                                                                                                                   |             |             |                        |                          |    |    |                                                     |                             |         | NCrF Entry Level : 3.0         |        |       |       | 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 |                                                     |                             |         |                                | FA-TH  | SA-TH | Total | Practical        |       |     |     |                        |             |     |     |     |     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                                                                                                                                                                                                                                                                                                                            |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       | FA-PR            | SA-PR | SLA |     |                        |             |     |     |     |     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                                                                                                                                                                                                                                                                                                                            |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |                  |       | Max | Min |                        |             | Max | Min | Max | Min |  |  |  |
| (All Compulsory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |                                                                                                                                                                                                                                                                                                                                            |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |                  |       |     |     |                        |             |     |     |     |     |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APPLIED MATHEMATICS                          | AMS                                                                                                                                                                                                                                                                                                                                        | AEC         | 312301      | 2                      | 3                        | 1  | -  | -                                                   | 4                           | 2       | 3                              | 30     | 70    | 100   | 40               | -     | -   | -   | -                      | -           | 100 |     |     |     |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BASIC ELECTRICAL AND ELECTRONICS ENGINEERING | BEE                                                                                                                                                                                                                                                                                                                                        | AEC         | 312302      | -                      | 4                        | -  | 4  | 2                                                   | 10                          | 5       | 1.5                            | 30     | 70*#  | 100   | 40               | 50    | 20  | 50@ | 20                     | 50          | 20  | 250 |     |     |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PROGRAMMING IN C                             | PIC                                                                                                                                                                                                                                                                                                                                        | AEC         | 312303      | -                      | 4                        | 1  | 4  | 1                                                   | 10                          | 5       | 3                              | 30     | 70    | 100   | 40               | 50    | 20  | 50# | 20                     | 25          | 10  | 225 |     |     |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINUX BASICS                                 | BLP                                                                                                                                                                                                                                                                                                                                        | DSC         | 312001      | -                      | 2                        | -  | 2  | -                                                   | 4                           | 2       | -                              | -      | -     | -     | -                | 25    | 10  | 25@ | 10                     | -           | -   | 50  |     |     |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PROFESSIONAL COMMUNICATION                   | PCO                                                                                                                                                                                                                                                                                                                                        | SEC         | 312002      | -                      | -                        | -  | 2  | -                                                   | 2                           | 1       | -                              | -      | -     | -     | -                | 25    | 10  | 25@ | 10                     | -           | -   | 50  |     |     |  |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SOCIAL AND LIFE SKILLS                       | SFS                                                                                                                                                                                                                                                                                                                                        | VEC         | 312003      | -                      | -                        | -  | -  | 2                                                   | 2                           | 1       | -                              | -      | -     | -     | -                | -     | -   | -   | 50                     | 20          | 50  |     |     |     |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WEB PAGE DESIGNING                           | WPD                                                                                                                                                                                                                                                                                                                                        | SEC         | 312004      | -                      | 2                        | -  | 4  | 2                                                   | 8                           | 4       | -                              | -      | -     | -     | -                | 50    | 20  | 50@ | 20                     | 25          | 10  | 125 |     |     |  |  |  |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |                                                                                                                                                                                                                                                                                                                                            |             |             | 2                      | 15                       | 2  | 16 | 7                                                   |                             | 20      |                                | 90     | 210   | 300   |                  | 200   |     | 200 |                        | 150         |     | 850 |     |     |  |  |  |
| <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) |                                              |                                                                                                                                                                                                                                                                                                                                            |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |                  |       |     |     |                        |             |     |     |     |     |  |  |  |