

| 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 Electrical Engineering / Electrical Power System |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| Programme Code                                                                                                                                                                                                                                                            |                                                           | : EE / EP                                                     |             |             |                        |                          |    |    |                                                     |                             |         | With Effect From Academic Year |        |       |       | 2023-24    |                  |     |     |     |                        |             |     |  |  |  |  |
| Duration Of Programme                                                                                                                                                                                                                                                     |                                                           | : 6 Semester                                                  |             |             |                        |                          |    |    |                                                     |                             |         | Duration                       |        |       |       | : 16 WEEKS |                  |     |     |     |                        |             |     |  |  |  |  |
| Semester                                                                                                                                                                                                                                                                  |                                                           | : Third                                                       |             |             |                        |                          |    |    |                                                     |                             |         | 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 |                                                     |                             |         |                                | FA-TH  | SA-TH | Total | Practical  |                  |     |     |     |                        |             |     |  |  |  |  |
|                                                                                                                                                                                                                                                                           |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       | FA-PR      | SA-PR            | SLA |     |     |                        |             |     |  |  |  |  |
|                                                                                                                                                                                                                                                                           |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  | Max | Min | Max |                        |             | Min |  |  |  |  |
| (All Compulsory)                                                                                                                                                                                                                                                          |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| 1                                                                                                                                                                                                                                                                         | ELECTRICAL CIRCUITS AND NETWORK                           | ECN                                                           | DSC         | 313332      | -                      | 4                        | -  | 4  | -                                                   | 8                           | 4       | 3                              | 30     | 70    | 100   | 40         | 25               | 10  | 50# | 20  | -                      | -           | 175 |  |  |  |  |
| 2                                                                                                                                                                                                                                                                         | ELECTRICAL POWER GENERATION,TRANSMISSION AND DISTRIBUTION | GTD                                                           | DSC         | 313333      | -                      | 4                        | -  | 2  | 2                                                   | 8                           | 4       | 3                              | 30     | 70    | 100   | 40         | 25               | 10  | 25@ | 10  | 25                     | 10          | 175 |  |  |  |  |
| 3                                                                                                                                                                                                                                                                         | ELECTRICAL AND ELECTRONIC MEASUREMENT                     | EEM                                                           | DSC         | 313334      | -                      | 3                        | -  | 4  | 1                                                   | 8                           | 4       | 3                              | 30     | 70    | 100   | 40         | 25               | 10  | 25# | 10  | 25                     | 10          | 175 |  |  |  |  |
| 4                                                                                                                                                                                                                                                                         | FUNDAMENTALS OF POWER ELECTRONICS                         | FPE                                                           | SEC         | 313335      | -                      | 3                        | -  | 4  | 1                                                   | 8                           | 4       | 3                              | 30     | 70    | 100   | 40         | 25               | 10  | 25@ | 10  | 25                     | 10          | 175 |  |  |  |  |
| 5                                                                                                                                                                                                                                                                         | ESSENCE OF INDIAN CONSTITUTION                            | EIC                                                           | VEC         | 313002      | -                      | 1                        | -  | -  | 1                                                   | 2                           | 1       | -                              | -      | -     | -     | -          | -                | -   | -   | 50  | 20                     | 50          |     |  |  |  |  |
| 6                                                                                                                                                                                                                                                                         | ELECTRICAL MATERIAL AND WIRING PRACTICE                   | EMW                                                           | SEC         | 313015      | -                      | 1                        | -  | 4  | 1                                                   | 6                           | 3       | -                              | -      | -     | -     | -          | 50               | 20  | 25@ | 10  | 25                     | 10          | 100 |  |  |  |  |
| Total                                                                                                                                                                                                                                                                     |                                                           |                                                               |             |             |                        | 16                       |    | 18 | 6                                                   |                             | 20      |                                | 120    | 280   | 400   |            | 150              |     | 150 |     | 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                                                          |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| <b>Legends :</b> @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination                                                                                                                                                   |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| <b>Note :</b>                                                                                                                                                                                                                                                             |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| 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                                                                                                                                                                                               |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| 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.                                                                                                                                                                                                |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |
| <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) |                                                           |                                                               |             |             |                        |                          |    |    |                                                     |                             |         |                                |        |       |       |            |                  |     |     |     |                        |             |     |  |  |  |  |