



Maharashtra State Board of Technical Education, Mumbai

Teaching And Examination Scheme For Post S.S.C. Diploma Courses

Program Name : Diploma in Mechatronics

Program Code : MK

With Effect From Academic Year: 2019 - 20

Duration of Program : 6 Semesters

Duration : 16 Weeks

Semester : First

Scheme : I

| S. N. | Course Title | Course Abbreviation | Course Code | Teaching Scheme | | | Credit (L+T+P) | Examination Scheme | | | | | | | | | | | | Grand Total | |
|--------------|---|---------------------|-------------|-----------------|----------|-----------|----------------|-----------------------|------------|-----------|-----------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------------|------------|
| | | | | L | T | P | | Theory | | | | | | Practical | | | | | | | |
| | | | | | | | | Exam Duration in Hrs. | ESE | | PA | | Total | | ESE | | PA | | Total | | |
| | | | | | | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | | Min Marks |
| 1 | English | ENG | 22101 | 3 | -- | 2 | 5 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 25@ | 10 | 25 | 10 | 50 | 20 | 150 |
| 2 | Basic Science | BSC | 22102 | 2 | -- | 2 | 4 | 90 Min | 70*# | 28 | 15* | 00 | 100 | 40 | 25@ | 10 | 25 | 10 | 50 | 20 | 200 |
| | | | | 2 | -- | 2 | 4 | | | | 15* | 00 | | | 25@ | 10 | 25 | 10 | 50 | 20 | |
| 3 | Basic Mathematics | BMS | 22103 | 4 | 2 | -- | 6 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | -- | -- | -- | -- | -- | -- | 100 |
| 4 | Fundamentals of ICT (Information & Communication Technology) | ICT | 22001 | 2 | -- | 2 | 4 | -- | -- | -- | -- | -- | -- | -- | 25@^ | 10 | 25~ | 10 | 50 | 20 | 50 |
| 5 | Engineering Graphics (For CE, CR, CS, ME, AE, PG, PT, FG, EE, EP, EU, CH, PS, DC, TC, TX, MK) | EGM | 22002 | 2 | -- | 4 | 6 | -- | -- | -- | -- | -- | -- | -- | 50@ | 20 | 50~ | 20 | 100 | 40 | 100 |
| 6 | Workshop Practice. (For CE, CR, CS, ME, AE, PG, PT, FG, EE, EP, EU, CH, PS, MK) | WPM | 22004 | -- | -- | 4 | 4 | -- | -- | -- | -- | -- | -- | -- | 50@ | 20 | 50~ | 20 | 100 | 40 | 100 |
| Total | | | | 15 | 2 | 16 | 33 | -- | 210 | -- | 90 | -- | 300 | -- | 200 | -- | 200 | -- | 400 | -- | 700 |

Student Contact Hours Per Week: **33 Hrs.**

Medium of Instruction: **English**

Theory and practical periods of 60 minutes each.

Total Marks : **700**

Abbreviations: ESE- End Semester Exam, PA- Progressive Assessment, L - Lectures, T - Tutorial, P - Practical

@ Internal Assessment, # External Assessment, *# On Line Examination, ^ Computer Based Assessment

* Under the theory PA, Out of 30 marks, 10 marks are for micro-project assessment (5 marks each for Physics and Chemistry) to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for the assessment of the cognitive domain LOs required for the attainment of the COs.

~ For the courses having ONLY Practical Examination, the PA has two parts, marks for : (i) Practical Part - 60% of total marks (ii) Micro-Project Part - 40% of total marks

- Candidate remaining absent in practical examination of any one part of Basic Science course i.e. Physics, Chemistry will be declare as Absent in Mark List and has to appear for examination. The marks of the part for which candidate was present will not be processed or carried forward.
- If Candidate not securing minimum marks for passing in the "PA" part of practical of any course of any semester then the candidate shall be declared as "Detained" for that semester.

