



Maharashtra State Board of Technical Education, Mumbai
Teaching and Examination Scheme For Post S.S.C. Diploma Courses

Program Name : Diploma in Automation and Robotics

Program Code : AO

With Effect From Academic Year: 2020 - 21

Duration of Program : 6 Semesters

Duration : 16 Weeks

Semester : Fourth

Scheme : I

| S. N. | Course Title | Course Abbre viation | 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 | Max Marks | Min Marks | Max Marks |
| 1 | Microcontroller and Applications | MAA | 22426 | 4 | - | 2 | 6 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 25# | 10 | 25 | 10 | 50 | 20 | 150 |
| 2 | Advanced Automation Systems | AAS | 22475 | 4 | - | 2 | 6 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 25# | 10 | 25 | 10 | 50 | 20 | 150 |
| 3 | Control System and Components | CSC | 22476 | 4 | - | 4 | 8 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 50@ | 20 | 50 | 20 | 100 | 40 | 200 |
| 4 | Sensors in Automation and Robotics | SAR | 22477 | 4 | - | 2 | 6 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 25@ | 10 | 25 | 10 | 50 | 40 | 150 |
| 5 | Python Programming | PPR | 22478 | 3 | - | 2 | 5 | 3 | 70 | 28 | 30* | 00 | 100 | 40 | 25@ | 10 | 25 | 10 | 50 | 20 | 150 |
| Total | | | | 19 | - | 12 | 31 | -- | 350 | -- | 150 | -- | 500 | -- | 150 | -- | 300 | -- | 800 | | |

Student Contact Hours Per Week: **31 Hrs.**

Medium of Instruction: **English**

Theory and practical periods of 60 minutes each.

Total Marks : **800**

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 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 marks Practical Part - with 60% weightage and Micro-Project Part with 40% weightage

➤ **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.**

