



# 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 : Sixth

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	Management	MAN	22509	3	--	--	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100	
2	Emerging trends in Electronics	ETE	22636	3	--	--	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100	
3	Internet of Things	IOT	22679	3	--	2	5	3	70	28	30*	00	100	40	25#	10	25	10	50	20	150	
	Elective-II (Any one)																					
4	Distributed Control Systems and HMI	DCS	22680	3	--	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
	3D Printing	DPR	22681																			
5	Robotics Process Automation	RPA	22682	2	--	4	6	--	--	--	--	--	--	--	50#	20	50	20	100	40	100	
6	Capstone Project Execution & Report writing	CPE	22060	--	--	4	4	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100	
7	Entrepreneurship Development	EDE	22032	2	--	2	4	--	--	--	--	--	--	--	50@	20	50~	20	100	40	100	
Total				16	--	14	30	--	280	--	120	--	400	--	200	--	200	--	400	--	800	

Student Contact Hours Per Week: 30 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.

