



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 : Fourth

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	Environmental Studies	EST	22447	3	-	-	3	90 Min	70*#	28	30*	00	100	40	--	--	--	--	--	--	100	
2	Microcontroller Programming	MCP	22471	3	-	4	7	3	70	28	30*	00	100	40	50@	20	50	20	100	40	200	
3	Control Systems	CSS	22472	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
4	Elements of Mechanical Engineering	EME	22473	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
5	Industrial Fluid Power	IFP	22474	3	-	2	5	3	70	28	30*	00	100	40	25@	10	25	10	50	20	150	
6	Computer Aided Mechatronics Drafting	CMD	22072	-	-	4	4	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100	
7	CNC Machine Tool Technology	CMT	22073	1	-	4	5	--	--	--	--	--	--	--	50#	20	50~	20	100	40	100	
Total				16	-	18	34	--	350	--	150	--	500	--	225	--	225	--	450	--	950	

Student Contact Hours Per Week: **34 Hrs.**

Medium of Instruction: **English**

Theory and practical periods of 60 minutes each.

Total Marks : 950

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

@ Internal Assessment, # External Assessment, *# Online Examination, ^ Computer Based Examination.

* 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.**

