

## Maharashtra State Board Of Technical Education, Mumbai

## Learning and Assessment Scheme for Post S.S.C Diploma Courses

Programme Name : Diploma In Mechatronics

Programme Code : MK With Effect From Academic Year : 2023-24

Duration Of Programme : 6 Semester Duration : 16 WEEKS

Semester : Fourth 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		SLA			
															Max	Min	Max	Min	Max	Min	Max	

## (All Compulsory)

1	ENVIRONMENTAL EDUCATION AND SUSTAINABILITY	EES	VEC	314301	2	3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	THEORY OF MACHINES	TOM	DSC	313313	-	4	-	2	-	6	3	3	30	70	100	40	25	10	-	-	-	-	125
3	CONTROL SYSTEMS	CSS	DSC	314337	-	3	-	2	1	6	3	3	30	70	100	40	25	10	-	-	25	10	150
4	EMBEDDED SYSTEM USING 'C'	ESC	AEC	314338	-	3	-	4	1	8	4	3	30	70	100	40	25	10	-	-	25	10	150
5	FLUID POWER AND INDUSTRIAL AUTOMATION	IAU	DSC	314339	-	3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175
6	ENTREPRENEURSHIP DEVELOPMENT AND STARTUPS	EDS	AEC	314014	-	1	-	2	1	4	2	-	-	-	-	-	50	20	25@	10	25	10	100
7	COMPUTER AIDED MECHATRONICS DRAFTING	CAM	SEC	314015	-	-	-	4	2	6	3	-	-	-	-	-	25	10	25#	10	25	10	75
<b>Total</b>					<b>2</b>	<b>17</b>	<b>16</b>		<b>7</b>		<b>20</b>		<b>150</b>	<b>350</b>	<b>500</b>		<b>175</b>		<b>75</b>		<b>150</b>		<b>900</b>

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						CL	TL	LL					FA-TH	SA-TH	Total	Practical				SLA		
																FA-PR	SA-PR	SLA				
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min													
<p><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</p> <p><b>Legends :</b> @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination</p> <p><b>Note :</b></p> <ol style="list-style-type: none"> <li>1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.</li> <li>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.</li> <li>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.</li> <li>4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks</li> <li>5. 1 credit is equivalent to 30 Notional hrs.</li> <li>6. * Self learning hours shall not be reflected in the Time Table.</li> <li>7. * Self learning includes micro project / assignment / other activities.</li> </ol> <p><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)</p>																						