

**Maharashtra State Board Of Technical Education, Mumbai**

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

**Programme Name : Diploma In Automation and Robotics**

**Programme Code : AO With Effect From Academic Year : 2023-24**

**Duration Of Programme : 6 Semester Duration : 16 WEEKS**

**Semester : Second NCrF Entry Level : 3.0 Scheme : K**

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme						Credits	Assessment Scheme										Total Marks
						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			
						CL	TL	LL					FA-TH	SA-TH	Total	Practical		SLA					
																FA-PR	SA-PR	Max	Min	Max	Min		

**(All Compulsory)**

1	APPLIED MATHEMATICS	AMS	AEC	312301	2	3	1	-	-	4	2	3	30	70	100	40	-	-	-	-	-	-	100	
2	APPLIED SCIENCE	APPLIED PHYSICS	ASC	DSC	312308	4	2	-	2	0	8	4	1.5	30	70*#	100	40	25	10	25@	10	-	-	200
							2	-	2	0								25	10	25@	10			
3	BASIC ELECTRONICS	BEL	AEC	312314	0	4	-	4	-	8	4	3	30	70	100	40	50	20	25@	10	-	-	175	
4	ELEMENTS OF ELECTRICAL ENGINEERING	EEE	SEC	312315	0	3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175	
5	PROGRAMMING IN C	CPR	SEC	312019	0	1	-	2	1	4	2	-	-	-	-	-	25	10	25@	10	25	10	75	
6	PROFESSIONAL COMMUNICATION	PCO	SEC	312002	0	-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50	
7	SOCIAL AND LIFE SKILLS	SFS	VEC	312003		-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	50	20	50	
8	ELECTRONICS WORKSHOP PRACTICE	EWP	SEC	312008		-	-	4	2	6	3	-	-	-	-	-	25	10	25@	10	25	10	75	
<b>Total</b>					<b>6</b>	<b>15</b>	<b>1</b>	<b>18</b>	<b>6</b>	<b>40</b>	<b>20</b>		<b>120</b>	<b>280</b>	<b>400</b>		<b>200</b>		<b>175</b>		<b>125</b>		<b>900</b>	

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						CL	TL	LL					FA-TH	SA-TH	Total	Practical		SLA				
																FA-PR	SA-PR	Max	Min	Max	Min	
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min													

**Abbreviations :** CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment, SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

**Legends :** @ Internal Assessment, # External Assessment, \*# On Line Examination , @\$ Internal Online Examination

**Note :**

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
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.
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.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.\* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. \* Self learning hours shall not be reflected in the Time Table.
7. \* Self learning includes micro project / assignment / other activities.

**Course Category :** Discipline Specific Course Core (DSC) : 1, Discipline Specific Elective (DSE) : 0, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 0, Ability Enhancement Course (AEC) : 2, Skill Enhancement Course (SEC) : 4, Generic Elective (GE) : 0