

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					: 12 Weeks (Industry) + 10 Weeks (Institute)														
Semester		: Fifth					NCrF Entry Level : 4.0					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	Max		Min		
(All Compulsory)																										
1	EMERGING TRENDS IN MECHANICAL ENGINEERING	ETM	DSC	315363	-	3	-	-	-	3	1	1.5	30	70*#	100	40	-	-	-	-	-	100				
2	INDUSTRIAL ROBOTICS	IRO	DSC	315364	-	5	-	4	-	9	3	3	30	70	100	40	25	10	25#	10	-	150				
3	SEMINAR AND PROJECT INITIATION COURSE	SPI	AEC	315003	-	-	-	1	2	3	1	-	-	-	-	25	10	25@	10	25	10	75				
4	RAPID PROTOTYPING SYSTEMS	RPS	DSC	315008	-	2	-	4	-	6	2	-	-	-	-	50	20	50#	20	-	-	100				
5	MAINTENANCE OF INDUSTRIAL MECHATRONIC SYSTEMS	MIM	SEC	315009	-	1	-	2	-	3	1	-	-	-	-	50	20	25@	10	-	-	75				
6	INTERNSHIP(12 WEEKS)	ITR	INP	315004	-	-	-	-	-	36 - 40	10	-	-	-	-	100	40	100#	40	-	-	200				
Elective -I (Any - One)																										
7	MECHATRONICS SYSTEMS USING IOT	MIT	DSE	315365	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	150				
	PROCESS ENGINEERING	PEN	DSE	315366	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	150				
	PRODUCT DESIGN AND DEVELOPMENT	PDD	DSE	315367	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	150				
Total						15		13	2		20		90	210	300		275		250		25	850				

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		
																FA-PR	SA-PR	SLA				
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.* 10 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. **Note:** Notional learning hours for **internship represents the student engagement hours.**

Course Category : 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)