

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		: Sixth				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												
						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		Min		
						Max	Min	Max	Min	Max	Min		Max	Min	Max	Min	Max	Min	Max	Min					
(All Compulsory)																									
1	MANAGEMENT	MAN	AEC	315301	1	3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125		
2	AUTOMOTIVE MECHATRONICS	AMK	DSC	316351	-	4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
3	PLC PROGRAMMING AND SCADA	PPS	SEC	316352	-	4	-	4	-	8	4	3	30	70	100	40	25	10	25#	10	-	-	150		
4	MICRO-ELECTRO MECHANICAL SYSTEM	MMS	DSC	316353	-	3	-	4	1	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
5	CAPSTONE PROJECT	CPE	INP	316004	-	-	-	2	2	4	2	-	-	-	-	-	50	20	50#	20	50	20	150		
Elective -II (Any - One)																									
6	COMPUTER AIDED INSPECTION AND QUALITY ASSURANCE	IQA	DSE	316354	-	4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
	MECHATRONICS IN HEALTH SERVICES	MHS	DSE	316355	-	4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
	SMART MANUFACTURING SYSTEMS	SMS	DSE	316356	-	4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
Total					1	18		14	8		20		150	350	500		150		150		150		950		

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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													
<p>Abbreviations : 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>Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination</p> <p>Note :</p> <ol style="list-style-type: none"> 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. <p>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)</p>																						