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
Duration Of Programme	: 6 Semester
Semester	: Sixth

With Effect From Academic Year	: 2023-24
Duration	: 16 WEEKS
Scheme	: K

NCrF Entry Level : 4.0

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	Actual Contact Hrs./Week CL	Actual Contact Hrs./Week TL	Actual Contact Hrs./Week LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory FA-TH Max	Theory SA-TH Max	Theory Total Max	Theory Total Min	Based on LL & TL Practical FA-PR Max	Based on LL & TL Practical FA-PR Min	Based on LL & TL Practical SA-PR Max	Based on LL & TL Practical SA-PR Min	Based on Self Learning SLA Max	Based on Self Learning SLA Min	Total Marks
(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	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) , Discipline Specific Elective (DSE) , Value Education Course (VEC) , Intern./Apprenti./Project./Community (INP) , AbilityEnhancement Course (AEC) , Skill Enhancement Course (SEC) , GenericElective (GE)