



National Institute of Technology Meghalaya
An Institute of National Importance

CURRICULUM

Programme		Bachelor of Technology in Mechanical Engineering											Year of Regulation			2018	
Department		Mechanical Engineering											Semester			II	
Course Code	Course Name	Credit Structure											Marks Distribution				
		L	T	P	C	Continuous Evaluation				Total							
ME 152	Workshop practice	0	0	4	2	100				100							
Course Objectives	Explain the tools, equipments and safety procedures of carpentry, fitting, welding and machine shops. (understanding).	Course Outcomes	CO1	Utilize the tools and equipments to perform specified jobs in fitting shop and compare with prescribed dimensions. (Applying).													
			CO2	Utilize the tools and equipments to perform specified jobs in carpentry shop and compare with prescribed dimensions. (Applying).													
	CO3		Utilize the tools and equipments to perform specified jobs in welding shop and compare with prescribed dimensions. (Applying).														
	CO4		Utilize the lathe to develop the prescribed job (Application)														
No.	COs	Mapping with Program Outcomes (POs)												Mapping with PSOs			
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
1	CO1	3	2	1	0	0	2	0	0	2	0	0	0	2	1	0	
2	CO2	3	2	1	0	0	2	0	0	2	0	0	0	2	1	0	
3	CO3	3	2	1	0	0	2	0	0	2	0	0	0	2	1	0	
4	CO4	3	2	1	0	0	2	0	0	2	0	0	0	2	1	0	
SYLLABUS																	
No.	Content													Hours	COs		
I	To perform T-joint with drilling in the centre in the fitting with the use of specific tools													08	CO1		
II	To develop cross joint, dovetail joint and bridle joint in carpentry shop with the use of specific tools													08	CO2		
III	To develop L-joint, Butt joint in Metal arc welding and T-joint Oxy-acetylene gas welding													08	CO3		
IV	To make specific job using Lathe machine in machine													08	CO4		
Total Hours													32				
Essential Readings																	
1. S.K. Hajra Chaudhary, Elements of Workshop Technology Vol-I and II, Asia Publishing House																	
Supplementary Readings																	
1. Gupta K.N. & Kaushish J.P., Workshop Technology, New Delhi Heights Pub., New Delhi.																	
2. H.S. Bava, Workshop Technology, Tata McGraw Hill Publishing Co. Ltd.																	
3. W.A.J. Chapman, Workshop Technology, ELBS Low Price Text, Edward Donald Pub. Ltd.																	