A CONTRACTOR OF THE PARTY OF TH			National Institute of Technology Meghalaya An Institute of National Importance												CURRICULUM	
P	rogram	me	e Bachelor of Technology in Mechanical Engineering Year of Re										Regulation	2018		
	epartm		Mechanie		8	6	Semester				VI					
Course		Corres Norma						C	redit Str	ructure			Marks Distribution			
Code		Course Name							L	T	T P C Contin			nuous Evaluation		Total
ME 354			Ad	uring La	b		0	1	2	2	100 100					
			neasure ar nild steel.	nd analyse	e the	Course	CO1	Analyze the cutting forces generated during machining of mild steel. (Analyze)								
Course Objectives			elop the s parameter					CO2	Analyze the effect of various process parameters during injection molding of plastic. (Analyze)							
		To develop student ability to perform 3D printing, scanning of object etc.							Outcomes	CO3	Development of the model and perform 3D printing. Scanning of an object and perform 3D printing.					
		To develop student ability to analysis factory automation								CO4	Analysis of the factory automation for modern manufacturing.					
No.		Toucv	Mapping with Program Outcomes (POs)									Mapping with PSOs				
	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	CO1	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0
2	CO2	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0
3	CO3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0
4	CO4	3	0	0	0	2	0	0	0	0	0	0	0	3	0	0
5	CO5	3	2	0	0	0	0	0	0	0	0	0	3	3	3	0
SYLLABUS																
No.	. Content													Hours	urs COs	
1	To me	To measure and analyse the cutting forces generate during machining of mild steel using a single point cuttingtool.												4	4 CO1	
2	To fabricate the test specimen and investigate the effect of various process parameters during injectionmoulding of plastic.													4	CO2	
3	Devel	Development of the model in modeling software and performance of 3D printing.													4 CO3	
4	Scanning of an object and print through 3D Pinter.													4	CO4	
5	Factory automation performance analysis.													4	CO5	
						To	otal Hours	8						20		

Supplementary Readings

1. A. Ghosh and A.K. Mallik, "Manufacturing Science", Wiley Eastern

2. S.K. Mazumdar, "Composites Manufacturing: Materials, Product, and Process Engineering", CRC Press