

MYMENSINGH POLYTECHNIC INSTITUTE

TECHNOLOGY: MECHANICAL

Outline Plan of Teaching (Semester Plan)

Subject: **FOUNDARY AND PATTERN MAKING - (67032)**

3rd Semester /1st & 2nd Shift

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2	3	3

Week	Theory			Practical			
	Content		Activity	Practical Job No	Content	Activity	
	(Specific Objectives)		Test		Learning Material	(Practical Name)	(Resources, Place, Tutorial, Methodology, Reference books, Viva, Job sheet)
1	Understand the concept of safely precaution of machine shop.			Marker pan, White Board, Multimedia	1	Mount and balancing the grinding wheel.	Job Sheet
2	Understand the concept of machine tools.				2	Perform grinding on a flat surface.	Jobsheet
3	Understand the application of cutting fluids for machining operation.		Quiz Test-1		3	Perform grinding on a cylindrically surface.	Jobsheet
4	Tool and cutter grinder.				4	Perform grinding on a flat position.	Jobsheet
5	Tool and cutter grinder.				5	Perform grinding on a single point cutting tools and twist drill bit and milling cutter	Jobsheet
6	The jig borers and jig grinder.		Class Test-1		6	Perform simple setting up of machine, mounting work piece, tool bit, speed and feeds, ram position and stroke	Jobsheet
7	Understand the application of shaper.				7	Carry out machining operation for parallel shaping and vertical face shaping.	Jobsheet
8	Understand the application of shaper.				8	Perform simple setting up of machine work piece, jig and jig grinder, speeds and feeds.	Jobsheet
9	Understand the application of planer.		Quiz Test-2		9	Measurement and inspection of holes.	Jobsheet
10	Understand the application of planer.				10	Set up tools on numerical controlled lathe machine.	Jobsheet
11	Numerical controlled machine tools.				11	Programming and Programming procedure of numerical controlled lathe machine.	Jobsheet
12	Numerical controlled machine tools.		Class Test-2		12	Curry out machining operations for facing parallel turning, center drill on numerical controlled lathe machine.	Jobsheet
13	Understand the engraving machine.				13	Produce a job to an engineering drawing specification.	Jobsheet
14	Review				14	A simple project	Jobsheet
15	Review				15	A simple project	
16	Review				16	A simple project	

Name of the teacher: **Biplob Kumar Sarkar**

Designation: **Instructor (Mechanical)**