MYMENSINGH POLYTECHNIC INSTITUTE
TECHNOLOGY: MECHANICAL
Outline Plan of Teaching (Semester Plan)

Subject: *MACHINE DESIGN (67071)*

7th Semester /1st & 2nd Shift

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3	3	4

	Theory				Practical	
	Content	**Activity**		**Practical Job No**	**Content**	**Activity**
	(Specific Objectives)	Test	Learning Materials		**(Practical Name)**	**(Resources, Place, Tutorial, Methodology, Reference books, Viva, Job sheet)**
1	Understand the analysis of stresses induced in machine elements & causes of failure of machine elements.			1	Perform the designing and drawing of shafts.	
2	Understand the analysis of stresses induced in machine elements & causes of failure of machine elements.	Quiz Test-1		2	Perform the designing and drawing of shafts.	
3	Understand pressure vessels.			3	Design and draw a standard hexagonal headed bolt and hexagonal nut.	
4	Understand the principle of designing screwed joints.	Class Test-1		4	Design and draw a standard hexagonal headed bolt and hexagonal nut.	
5	Understand the principles of designing knuckle joint.			5	Perform the designing and draw a knuckle joint	
6	Understand the principles of designing shafts			5	Perform the designing and draw a knuckle joint	
7	Understand the principles of designing shafts	Quiz Test-2		6	Perform designing and drawing a standard flange coupling.	working hand tools, fitting works.
8	Understand the principle of designing key & coupling.			7	Perform designing and drawing a standard flange coupling.	
9	Understand the principle of designing key & coupling.			8	Make a helical spring.	
10	Understand the principle of designing power screws.	Class Test-2		9	Make a helical spring.	
11	Understand the principles of designing belts and ropes.			10	Make helical gear.	
12	Apply the principles of designing springs.	Quiz Test-1		11	Make helical gear.	
13	Apply the principles of designing springs.			12		
14	Understand the principles of designing Spur gears & helical gears.	Test-5		13		
15	Understand the principles of designing Spur gears & helical gears.			14		
16	Apply the principles of designing clutches and brakes.			15		

NAME OF THE TEACHER: **MD.REZAUR RAHMAN**   *DESIGNATION:* **INSTRUCTOR (MECHANICAL)**

SIGNATURE: