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

Subject: CAD & CAM (67054)

5th Semester /1st & 2nd Shift

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1	6	3

Week	Theory Content (Specific Objectives)	Theory Activity Test	Theory Activity Learning Materials	Practical Job No	Practical Content (Practical Name)	Practical Activity (Resources, Place, Tutorial, Methodology, Reference books, Viva, Job sheet)
1	Basic concept of CAD & CAM.			1	Observation of AutoCAD program Software and Opening Screen.	
2	Understand the Computer Aided Design (CAD).			2	Draw geometrical involving line, arc, and circle in two-dimensional environment.	
3	Understand Interactive computer graphics.	Test-1		3	Draw geometrical involving lines, curves, circle, ellipse, with given data.	
4	Understand Geometrical models and modeling techniques.			4	To set LIMITS, ZOOM, PAN for geometrical dimension.	
5	Understand the Computer aided Drafting			5	Modify a given drawing (previously created) with new sets of data.	
6	Understand the computer Aided Manufacturing (CAM).	Test-2	Marker pan, White Board, Multimedia	6	Self Check	1) PC 2) Lecture sheet 3) Software- CAD & CAM 4) Projector
7	Understand the NC machine tool control.			7	Annotate the given drawing with text and dimensions.	
8	Understand CNC machine tools & control systems.			8	Draw a 3-D object using conventional process.	
9	Understand industrial robots.	Test-3		9	Draw a 3-D object using wire frame construction technique.	
10	Understand basic concept of CAD & CAM.			10	Draw a 3-D object using solid model technique.	
11	Understand the Computer Aided Design (CAD)			11	Draw a 3-D object using constructive geometric technique.	
12	Understand Interactive computer graphics.	Test-4		12	Self Check	
13	Understand Geometrical models and modeling techniques.			13	Prepare different part program of different object for NC machine.	
14	Understand the Computer aided Drafting			14	Prepare different part program of different object using 'G' and 'M' code.	
15	Understand the computer Aided Manufacturing (CAM).			15	Prepare NC program: linear cutting, taper cutting and multiple diameter cutting.	
16	Understand the NC machine tool control	Test-5		16	Self Check	

Name of the teacher: Ariful Islam, Workshop Superintendent (Mechanical)