

MYMENSINGH POLYTECHNIC INSTITUTE
POWER TECHNOLOGY
Out Line Plan of Teaching 1st Semester Student

SEMESTER PLAN

Subject: POWER ENGINEERING FUNDAMENTALS (27111)

T	P	C
2	6	4

Week No.	Theory		Practical		
	Content (Specific Objective)	Activity		Content(Practical Job no)	Remarks
		Class/ Quiz Test	Learning Materials		
1	SHOP SAFETY AND HAZARD(1.1---1.4)		Ref. books, white board ,marker, flow chart,OHP & Tolls	Job no:-01 (Identify the general tools, equipment, instruments and Machineries used in the automobile shop.)	
2	Understand the concept of an automobile (2.1---2.4)		Ref. books, white board ,marker, ,OHP, Live Engine	Job no:-02 (Identify stationery and moving parts of an automobile engine)	
3	Understand the design and layout of the automobile Service Station (3.1---3.4)		Ref. books, white board ,marker, ,OHP, Open Engine.	Job no:- 03 (Demonstrate cylinder head, cylinder block, crank shaft, cam shaft, piston, connecting rod etc)	
4	Understand the construction on an automobile (4.1---4.5)	Class Test-1	Ref. books, white board ,marker, ,OHP, Petrol Engine.	Job no:-04 (Demonstrate the operation of a 4-stroke petrol engine with the help of a model)	
5	State the function of Internal Combustion Engine. (5.1---5.4)		Ref. books, white board ,marker, ,OHP, Petrol Engine.	Job no:-05 (Demonstrate the operation of a 2-stroke petrol engine with the help of a model)	
6	Understand the working principle of Steam Generator & Turbine(6.1—6.5)	Quiz Test-1	Ref. books, white board ,marker, ,OHP, Diesel Engine.	Job no:06 (Demonstrate the operation of a 4- stroke diesel engine with the help of a model)	
7	Mid-Term Examination				
8	Understand the concept of fluid and fluid machinery (7.1---7.4)		Ref. books, white board ,marker, ,OHP, Refrigerator & Air conditioner .	Job no:07 (Identify major parts of a refrigerators and an air conditioner)	

9	Understand the application of refrigeration and air conditioning equipment (8.1---8.4)	Class Test-2	Ref. books, white board ,marker, ,OHP, Refrigeration Model.	Review Job no:-04	
10	Understand the concepts of power plants (9.1---9.3)		Ref. books, white board ,marker, ,OHP.	Review Job no:-05	
11	Understand the concept of hydraulic and pneumatic machinery. (10.1--10.4)		Ref. books, white board ,marker, ,OHP, hydraulic and pneumatic machinery.	Job no:-08 DRAW A LAYOUT OF STEAM POWER PLANT AND ITS DIFFERENT SECTION.	
12	Understand the concept of locomotive engines (11.1---11.7)	Quiz Test-2	Ref. books, white board ,marker, ,OHP	Job no:-09 IDENTITY COMPONENTS OF CENTRIFUGAL, RECIPROCATING, ROTARY AND TURBINE PUMPS	
13	Understand the concept of Hybrid Vehicle (12.1---12.4)		Ref. books, white board ,marker, ,OHP	Review Job no:-06	
14	Understand the concept of Vehicle Automation(13.1---13.5) Understand the concept of Robot(14.1---14.5)		Ref. books, white board ,marker, ,OHP	Job no:-10 IDENTITY COMPONENT OF PELTON WHEEL AND KAPLAN TURBINE	
15	Final Examination				

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