Government of the People's Republic of Bangladesh Mymensingh Polytechnic Institute Semester Plan Power Technology Subject: REFRIGERATION CYCLES AND COMPONENTS

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Subject Code: 27231 3rd Semester (1st Shift) Class Start : 14-01-2024

	Class Start : 14-0	1-2024		
Week	Activity/Lesson	Teaching aids		Remark
		Theory	Practical	
01	Theory: UNDERSTAND THE CONVENTIONAL & NON- CONVENTIONAL REFRIGERATION CYCLES Practical: Identify the Components of Vapor Compression Refrigeration Cycle.	White Board Marker Pen, Internet Connected Laptop & Multimedia Projector	Job Sheet	
02	Theory: UNDERSTAND THE VAPOR COMPRESSION AND ABSORPTION REFRIGERATION SYSTEM Practical: Operate Thermo-Electric Refrigeration System.	Do	Do	QT-1
03	Theory: UNDERSTAND THE VAPOR COMPRESSION AND ABSORPTION REFRIGERATION CYCLE COMPONENTS Practical: Operate the Evaporative Refrigeration System.	Do	Do	CT-1
04	Theory: UNDERSTAND THE ACCESSORIES and AUXILIARIES of REFRIGERATION CYCLES. Practical: Observe Major Working Parts of Seal type Reciprocating Compressor.	Do	Do	CT-2
05	Theory: UNDERSTAND THE REFRIGERANT RECOVERY & RECYCLING SYSTEMS Practical: Dismantle, Reassemble and Identify Internal Parts of a Thermostatic Expansion Valve.	Do	Do	
06	Theory UNDERSTAND THE VRF & VRV SYSTEM Practical: Dismantle, Reassemble and Identify Internal Parts an Automatic Expansion Valve.	Do	Do	QT-2
07	Mid Term Examination			

08 Theory: UNDERSTAND THE INVERTER & VOICE CONTROL RAC SYSTEMS. Practical: Identify the Different types of Refrigerants by Pressure Temperature Method. Do Do 09 Theory: UNDERSTAND THE REFRIGERENT & GREEN HOUSE EFFECTS. Practical: Perform the Transfer Refrigerant from Storage Cylinder to Service Cylinder. Do Do Do QT-3 10 Theory: UNDERSTAND THE AIR COURTAIN, AHU,CCU and FCU Practical: Perform the Recover CFC-12, HCFC-22, HC-134a and HC-410A from refrigeration system by Active Method. Do QT-3 10 Theory: UNDERSTAND THE AIR COURTAIN, AHU,CCU and FCU Practical: Perform the Recover CFC-12, HCFC-22, HFC-134a and HFC-410A from refrigeration system by Active Method. Do Do Do Do Do CT-3 11 Theory: UNDERSTAND THE REFRIGERENT OIL Practical: Perform the Recover HFC 600a, HCFC-22, HFC-134a and HFC-410A from Refrigeration System by Passive Method. Do Do QT-4 Do QT-4 13 Theory: Revise Do Do QT-4 14 Theory:Revise Do Do Do CT-4 14 Theory:Revise Do <th></th> <th></th> <th></th> <th>-</th> <th></th>				-	
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	14	Theory:Revise	Do	Do	
		Semester Final Examination			

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