Course Name: HOTEL ENGINEERING

Course Code:

Course Objectives: At the end of the semester the students would be able to-

Learn to perform routine and preventative maintenance to protect the assets of a hotel and to keep the hotel running smoothly. The hotel engineer keeps up with the wear and tear that guests put on the facilities of a hotel. His job is to ensure a safe, quality hotel experience that improves guest satisfaction.

Module I: HOSPITALITY INDUSTRY AND ENGINEERING **SYSTEMS**

	Intr	oduction		
	Eng	gineering Systems in Hospitality Industry		
	0	Facilities under the Scope of Civil Engineering		
	0	Facilities under the Scope of Mechanical Engineering		
	0	Facilities under the Scope of Electrical and Electronics Engineering		
	Co	nclusion		
odule II: 6. HARDNESS OF WATER AND ITS REMOVAL				

Mod

Introduction		
Hardness of water		
o Different Type		
o Cause and Effect		
o Comparison of the Characteristics of Hard Water and Soft Water		
o Hardness		
o Causes of Hardness		
o Types of Hardness		
Removal of Hardness and Water Softening		
o Method of Removing Temporary Hardness or Carbonate Hardness		
o Methods of Removing Permanent Hardness		
Water and Cooking		
Conclusion		
 L. III. WATED DICTDIDITION CUCTEM		

Module III: WATER DISTRIBUTION SYSTEM

	Introduction	
	Cold Water—Supply, Storage, and Distribution	
	o Treated Water Supply from Municipal Corporation Source	
	o Storage Cistern	
	o Swimming Pool	
	Hot Water Generation and Distribution	
	o Central Hot-water Generation and Distribution System	
	o Localized Hot-water Generation and Distribution System	
П	Piping Materials for Conveying Water	

	Fittings in Water Distribution Line					
	o Valves, Taps, and Cocks					
	o Tees, Sockets, Nipples, and Bends					
	o Flushing Cisterns					
	o Water Regulatory Board					
	Conclusion					
Modu	Module IV: SANITATION, WASTE DISPOSAL, AND POLLUTION					
?	Introduction					
	o Sewage and Waste Collection and Drainage System					
	o Sanitary System and Sewage Draining in Hotels					
	o A Few Common Sanitary Fittings					
	Treatment and Disposal of Sewage					
	o Disposal of Sewage					
	o Sewage Treatment					
	o Sewage treatment plant					
	o Measure of the Toxicity of Wastewater and Sewage					
	Solid Waste and its Disposal					
	o Solid Waste Management in Hotels and Restaurants					
	Regulations and Norms for Solid Waste Management Pollution and the Hotel Industry					
Ш	o Sources of Pollution					
П						
	Conclusion					
Modu	le V: SAFETY AND SECURITY					
	Introduction					
	Safety in Hotels and its Management					
	o Typical Activities and Possible Accidents in Hospitality Industry					
П	Fire Safety					
	A Few Safety Issues in Hotels o Guest Bathroom					
	o Guest Bathroom o Kitchen Safety					
	o Accidents Common in Machine/Boiler Room					
	7 Addition of Machiner Boiler (Com					
Modu	Module VI: CARE AND MAINTENANCE					
	Introduction					
	Refrigeration System					
	o Care and Maintenance					
	o Troubleshooting in Refrigeration System					
	Air-Conditioning and Ventilation System					
	o Central Air Conditioner					
	o Unit or Package Conditioner					

Cooking Stoves and Ranges
Microwave Oven
Washing Machines
Clothes Dryer
Dishwasher
Pumps
Conclusion