2	Understand the issues related to steam generators and turbines	2,5,7
3	To Know the working principles of Refrigeration & Air conditioning.	3,4,6
4.	the desired the engineering materials its properties and	1,5,8
	applications.	" -
5.	Basics of lathe, drilling machine, milling machine and its operations.	4,5
6.	Basics of casting ,joining,forging and powder metallurgy and components	4'5
	manufactured by them.	

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week	Topic	Mode of Delivery
1	1 st week	Briefing of thermodynamics laws. Thermodynamic systems, entropy and Adiabatic cycle. IC engine parts and its working principle. PV &TS Diagram.	Lecture C& T
2	2 nd week	Introduction to Air compressors working principles. Principle of Turbo machines. Properties of steam ,steam generators.	Lecture C& T
3	3 rd week	Introduction to Automobile parts and their functions. Explanation about gas turbines.	Lecture C& T
4	4 th week	Briefing of Refrigeration and Air condition.	Lecture C& T
5	5 th week	Introduction to engineering materials, selection of materials. materials properties. Structure of materials.	Lecture C& T
6	6 th week	Basic machine elements. Transmission system Fasteners and support system.	Lecture C& T
7		CYCLE TEST-I	e e e
8	7 th week	Introduction to manufacturing techniques of machine components. Classification of lathe and its parts functions.	Lecture C& T
9	8 th week	Explanation about drilling machines and its types. Operations. Milling machines working principles and its parts.	Lecture C& T
10	9th week	Milling machine operations. Introduction to casting technique.	Lecture C& T
11	10 th week	Metal joining process. Types of joining process.(arc &gas welding) basic of riveting.	Lecture C& T
12	11 th week	Introduction to forging process. Types of forging. Forging operations	Lecture C& T
13		CYCLE TEST-II	