ME520 Thermal Plant Engineering

COURSE INFORMATION

Prerequisites	Academic Year &Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Lab.	
ME234	4	8	2	2	0	3

COURSE AIM

The course aims is to give students a thorough grounding in the different types of thermal plants and their design.

COURSE WEEKLY CONTENTS

1 First law of thermodynamics
2 Second law of thermodynamics
3 Simple Rankine Cycle
4 Actual Rankine Cycle
5 Rankine with reheat
6 Rankine with regineration
7 7th week evaluation + Midterm Exam
8 Simple Brayton Cycle
9 Actual Brayton Cycle
10 Brayton with reheat
11 Brayton with regineration
12 12th week evaluation
13 Combined Cycles
14 Renewable Energy
15 Renewable Energy

STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	←	10 MARKS To be freely distributed among possible assessments			→	30
8 to 12	←			20 MARKS			→	20
13 to 15	←			10 MARKS			→	10
16 or 17	40	Final						40
Total	Exams		Assign.	Quizzes	Reports	Present.	Lab.	100

REFERENCES

Textbook Dipak K. Sarkar " Thermal Power Plant Design and Operation"
Other