COURSE OUTCOME ASSESSMENT AND ATTAINMENT(R16)

COURSE NAME: POWER PLANT ENGINEERING CODE: R1641034

COURSE OUTCOMES:Students are able to

Discuss the energy resources and the energy conservation methods available for the												
production of electric power in India.[K1]	Discuss the energy resources and the energy conservation methods available for the production of electric power in India.[K1]											
CO2 Explain about internal combustion and gas turbine power plants.[K2]	Explain about internal combustion and gas turbine power plants.[K2]											
CO3 Explain and classify Hydro electric power plants and projects.[K2]	Explain and classify Hydro electric power plants and projects.[K2]											
CO4 Discuss about Nuclear Power plants and understand about types of power plants.[K2,K	Discuss about Nuclear Power plants and understand about types of power plants.[K2,K3]											
CO5 Understand the operation of different combinations of Power Plants and Electrical instrumentation involved in power plants.[K2]	Understand the operation of different combinations of Power Plants and Electrical instrumentation involved in power plants.[K2]											
CO6 Explain about various factors involved in construction of power plants.[K2].	Explain about various factors involved in construction of power plants.[K2].											
MAPPING CO'S WITH PO'S												
CO PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01	PSO2											
CO1 3 1 - 1 2 1 - 1 - 1 -	-											

CO1	3	1	-	1	-	1	2	1	-	1	-	1	-	-
CO2	2	1	-	1	-	1	2	1	-	1	1	1	-	-
CO3	2	1	1	1	-	1	2	1	-	1	1	1	-	-
CO4	2	1	2	2	-	2	3	3	-	2	1	2	-	-
CO5	2	1	1	1	-	2	3	1	-	2	2	1	-	-
CO6	3	1	1	-	-	1	2	1	-	1	2	1	-	-
Avg	2.3	1	0.83	1	-	1.33	2.3	1.33	-	1.33	1.16	1.16	-	-

MAPPING COURSE WITH PO'S

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PPE	2.3	1	0.83	1	-	1.33	2.3	1.33	-	1.33	1.16	1.16	-	-

COURSE OUTCOME RUBRIC

Course	Assessment Methods with weight age	Method	Attainment Level 1 (Average)	Attainment Level 2 (Good)	Attainment Level 3 (Excellent)
Theorem	Internal tests (40%)	Direct	60% students scoring more than or equal to 16 marks out of the maximum 30marks	70% students scoring more than or equal to 16marks out of the 60maximum 30 marks	80% students scoring more than or equal to 16 marks out of the maximum30 marks
Course Outcome	University Average Mark (60%)	Direct	50% students scoring more than or equal to 24 marks out of maximum 80 marksmarke35 % of University Max marks	60% students scoring more than or equal to 24 marks out of maximum 80 marksmarke35 % of University Max marks	70% students scoring more than or equal to 24 marks out of maximum 80 marksmarke35 % of University Max marks

Code: Batch:2016-20

MEASURING CO ATTAINMENT THROUGH INTERNAL ASSESSMENTS										
INTERNAL TEST										
Attainment	:	54out of 61 students got more than 15 (50% of max internal Marks 30) marks. So,								
		86% of students got marks more than target marks.								
Attainment level	:	3								
MEASURING COURSE OUTCOMES ATTAINED THROUGH UNIVERSITY EXAMINATIONS (DIRECT METHOD)										
Attainment	:	37 out of 52 students got more than 24 (35% of University Max								
		Marks 70) marks. So, 71.15% of students got marks more than target marks								
Attainment level	:	3								

Total Attainment of POWER PLANT ENGINEERING Theory Course

Assessment Tool with	Method	Level of attainment						
weightage		3	2	1	0			
Internal Exam (40%)	Direct	3						
University Exam (60%)	Direct	3						

Course Attainment = $0.4 \times 3 + 0.6 \times 3 = 3$. Since the attained level (3) is greater than the target level (2.5), all specified outcomes are achieved.

Course-PO Attainment for POWER PLANT ENGINEERING:

Final PO attainment value = $\frac{CO - PO Mapping Average \times Course Attainment Value}{CO - PO Mapping Average \times Course Attainment Value}$ 3

Final COURSE Attainment WITH PO'S **Final Course PO attainment**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
СО	2.3	1	0.83	1	_	1.33	2.3	1.33	-	1.33	1.16	1.16	-	-