



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

ELECTRICAL AND ELECTRONICS ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty: **Mr. G VISWANATH** Department: **Electrical and Electronics Engineering**
Regulation: **IARE - UG20** Batch: **2021-2025**
Course Name: **Power System Operation and Control** Course Code: **AEEC35**
Semester: **VII** Target Value: **60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Solve the optimum load scheduling with various constraints in Thermal and Hydro power Stations using conventional optimization techniques and general transmission line loss formula	0.90	2.30	1.2	Not Attained
CO2	Develop the mathematical models of the mechanical and electrical components in the power generation for deriving the transfer function of the power system	0.30	2.30	0.7	Not Attained
CO3	Distinguish single area and two area load frequency control for minimizing the transient and steady state deviations using various controllers	0.60	2.30	0.9	Not Attained
CO4	Choose different types of compensating equipment for controlling voltage, reactive power and power factor for improving the reliability in compensated and uncompensated transmission lines	0.60	2.30	0.9	Not Attained
CO5	Interpret the types of loads in the power systems from their characteristic factors	0.60	2.30	0.9	Not Attained
CO6	Design to improve the power factor of specified loads	1.30	0.00	1	Not Attained

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO1: Solve various problems and different cases for Hydro and Thermal power stations. Try Optimization techniques for all cases.

CO2: Expose text book concepts to real world cases by arranging Industrial Visits.

CO3: Study and Practice more problems in the Load Frequency Control for Steady State and Transient Analysis.

CO4: Selecting a real example of Power factor improvement and energy consumption and observe the difference to understand concepts.

CO5: Observe how energy consumption varies with respect to loads in different cases.

CO6: Discuss the energy consumption before and after power factor improvement

Course Coordinator

Mentor

Head of the Department

Head of the Department
Electrical and Electronics Engineering
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Dundigal, Hyderabad-500 043.