



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## ELECTRICAL AND ELECTRONICS ENGINEERING

### ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. P.Sridhar	Department:	EEE
Regulation:	IARE - R16	Batch:	2016 - 2020
Course Name:	Power System Operation and Control	Course Code:	AEE016
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.	0.6	2.2	0.9	Attainment target is not yet reached.
CO2 Develop the mathematical models of the mechanical and electrical components in the power generation for deriving the transfer function of the power system.	3	2.3	2.9	Attainment target reached
CO3 Distinguish single area and two area load frequency control for minimizing the transient and steady state deviations using various controllers.	0.9	2.2	1.2	Attainment target is not yet reached.
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.	0.9	2.2	1.2	Attainment target is not yet reached.
CO5 Interpret the types of loads in the power systems from their characteristic factors.	3	2.3	2.9	Attainment target reached

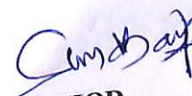
#### Action taken report:

CO1: More emphasis on optimal operation of power generating stations and transmission line loss coefficients.  
CO3: Simulation of real-time examples on load frequency control in power system in MATLAB/Simulink for better understanding.  
CO4: Extra classes and tutorials shall be conducted for discussion on low operating power factor and voltage drop compensation techniques in the power system for more exposure.

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Course Coordinator

Mentor

  
HOD  
Head of the Department  
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