



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## ELECTRICAL AND ELECTRONICS ENGINEERING

### ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. P.Sridhar</b>	Department:	<b>EEE</b>
Regulation:	<b>IARE - R16</b>	Batch:	<b>2017 - 2021</b>
Course Name:	<b>Power System Operation and Control</b>	Course Code:	<b>AEE016</b>
Semester:	<b>VII</b>	Target Value:	<b>60% (1.8)</b>

#### 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.	1.4	2.6	1.6	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.	1.4	2.5	1.6	Attainment target is not yet reached.
CO3	Distinguish single area and two area load frequency control for minimizing the transient and steady state deviations using various controllers.	1.4	2.5	1.6	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.	2.1	2.6	2.2	Attainment target reached
CO5	Interpret the types of loads in the power systems from their characteristic factors.	2.7	2.6	2.7	Attainment target reached

#### Action taken report:

CO1: Conducting tutorial classes on load scheduling in thermal and hydro power stations, transmission line loss coefficients.  
CO2: More emphasis on mathematical modelling of electrical and mechanical components employed in power generating plants.  
CO3: Delivering more lectures on single area and two area load frequency control with explanation of basic controllers for minimization of transient and steady deviations in power system operation.

Course Coordinator

Mentor

HOD

Head of the Department  
Electrical and Electronics Engineering  
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