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.

Course Coordinator **Mentor** **HOD**

Head of the Department
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