



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## ELECTRICAL AND ELECTRONICS ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty: **Ms. M VARALAKSHMI** Department: **Electrical and Electronics Engineering**  
Regulation: **IARE - UG20** Batch: **2021-2025**  
Course Name: **Electrical Power Transmission Systems** Course Code: **AEEC15**  
Semester: **V** Target Value: **60% (1.8)**

#### Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Compute the line parameters of a single phase and three phase transmission lines using the concepts of Geometric Mean Radius (GMR) and Geometric Mean Distance (GMD).	3.00	2.30	2.9	Attained
CO2	Discuss about overhead line insulators, string efficiency, sag and tension parameters which are used in the mechanical design of transmission lines.	2.40	2.30	2.4	Attained
CO3	Classify the transmission lines and model them using ABCD constants to evaluate the performance of transmission system.	3.00	2.30	2.9	Attained
CO4	Discuss the concepts of skin effect, proximity effect, Ferranti effect, surge impedance and corona effect in electrical power transmission in order to improve the performance of lines.	0.60	2.30	0.9	Not Attained
CO5	Analyze the power system transients under different loading conditions of transmission line using circuit concepts and Bewley's lattice diagram method.	2.00	2.30	2.1	Attained
CO6	Describe the EHV, HVDC and Underground transmission systems along with its parameters which affects the efficiency and quality operation of power system.	3.00	2.30	2.9	Attained

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

CO4: more practice on corona problems and formulas.

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Electrical and Electronics Engineering  
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