



ELECTRICAL AND ELECTRONICS ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|----------------------|---------------------------------------|---------------|--|
| Name of the faculty: | Ms.T SARITHA KUMARI | Department: | Electrical and Electronics Engineering |
| Regulation: | IARE - R20 | Batch: | 2020-2024 |
| Course Name: | Electrical Power Transmission Systems | Course Code: | AEEEC15 |
| 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). | 0.90 | 2.20 | 1.2 | Not Attained |
| CO2 Discuss about overhead line insulators, string efficiency, sag and tension parameters which are used in the mechanical design of transmission lines. | 0.60 | 2.20 | 0.9 | Not Attained |
| CO3 Classify the transmission lines and model them using ABCD constants to evaluate the performance of transmission system. | 0.90 | 2.10 | 1.1 | Not 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. | 0.90 | 2.20 | 1.2 | Not Attained |
| CO5 Analyze the power system transients under different loading conditions of transmission line using circuit concepts and Bewley's lattice diagram method. | 0.60 | 2.10 | 0.9 | Not Attained |
| CO6 Describe the EHV, HVDC and Underground transmission systems along with its parameters which affects the efficiency and quality operation of power system. | 0.90 | 2.10 | 1.1 | Not Attained |

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

CO1: Additional problems with solutions are provided to calculate parameters of transmission line.

CO2: Additional reading material is given to enhance the knowledge about string efficiency and sag.

CO3: Additional problems with solutions are provided to calculate performance of transmission line.

CO4: Additional reading material is given to enhance the knowledge about surge impedance and corona effect.

CO5: Digital content is given to enhance the knowledge of transients under different loading conditions.

CO6: Digital content is given for a better understanding of concept.


Course Coordinator


Mentor


Head of the Department