SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A' Grade by NAAC)

PULLOOR, KARIAPATTI – 626 115.

DEPARTMENTOF ELECTRICAL AND ELECTRONICS ENGINEERING

Activity Supports Employability/Entrepreneurship/Skill Development

Course Code : 19UEE404

Course Name : Electric Power Transmission and Distribution

Academic Year : 2020 – 2021 (Even) **Class** : II Year

Category	Employability
Activity	Simulation
Outcome	Electric power transmission is the bulk movement of electrical energy from a generating site, such as a power plant, to an electrical substation where voltage is transformed and distributed to consumers or other substations. The interconnected lines which facilitate this movement are known as a transmission network. This is distinct from the local wiring between high-voltage substations and customers, which is typically referred to as electric power distribution. The combined transmission and distribution network is part of electricity delivery, known as the electrical grid. Recent concerns about T&D systems have stemmed from inadequate investment to meet growing demand, the limited ability of those systems to accommodate renewable-energy sources that generate electricity intermittently, and vulnerability to major blackouts involving cascading failures. Moreover, effective and significant utilization of intermittent renewable generation located away from major load centers cannot be accomplished without significant additions to the transmission system. In addition, distribution systems often are incompatible with demand-side options that might otherwise be economical. Modernization of electric T&D systems could alleviate all of these concerns. Therefore, Simulation based on the modeling and analyzing performance of transmission lines helps to understand the parameters of transmission lines. The knowledge gained through this acitivity of the Course helps the students to be employable in Power sector.

Course Instructor

HoD/EEE