



Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

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Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course: “Substation Design (Control Protection and Facility Planning)”

Guest Speaker: Dr Shiva Kumar Aradya, Professor, Dept. of EEE, Acharya Institute of technology, Bangalore - 560107.

Duration of the course: was for five days from July 27th 2015 to July 31st 2015

Course detail

Objective of the Course: The five day course made the students to be familiar with the topic. The Line route should be so selected that the maintenance is easy and the line does not cause Obstruction to vehicular traffic and should be shortest, as well, consistent with engineering and economic principles. The transmission lines shall be routed, where ever possible to avoid difficult terrain and natural obstacles such as steep hills, dense forests, landslides, lakes, rivers, highly developed areas, etc. Transmission lines should not also cross school-yards.

The correct and accurate Survey results in speedy construction and saving of unnecessary alignment and realignment at the time of carrying out actual construction work. All measurements should be taken with utmost accuracy and similarly the line charts and the profiles should be prepared with great care and precaution. Where the lines are constructed over farmland, structures and anchors shall be so located as to interfere as little as possible with farming operation. Wherever such structures and anchors become necessary, the same shall be located along fencing or in any uncultivated areas. While aligning for poles or for underground cabling, care should be exercised to determine the location of all underground services such as water mains, sewers, telephone cables, power cables, land drainage tiles, gas, and oil pipe lines etc. and adequate clearance should be provided to avoid damage.

The Transmission lines shall be routed to avoid buildings and build up areas wherever possible. The clearances of the various conductors from the ground and buildings should be taken well as per latest INDIAN ELECTRICITY RULES. Where Switchyard means collection of equipment where high voltage electricity is switched using of various components. Electrical Switchyard is usually a part of Substation where electricity is transferred from one Voltage to another for the Transmission and Distribution purpose.

Conclusion: Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

It is a practice of the department to take care of any issues pertaining to the academics. In this connection department of EEE has conveyed meeting with Faculty members to discuss about any lapses with academic activities and felt the need to conduct a certificate Course. As part of Certificate course 4 faculty members were identified and assigned duties and responsibilities to carry out the Certificate course.



Number of Students attended the certification course in the year 144

HOD, EEE