Industrial visit Report 2016-2017 I

The Department of Electrical & Electronics Engineering, Narayana Engineering Gudur , Meenakshi Energy Power Plant, Meenakshi Energy Thermal Power Project is a 300-megawatt (MW) coal plant organized an Industrial visit on **15-04-2017** for Second Year UG (EEE) Students.

Meenakshi Energy Power Plant, Meenakshi Energy Thermal Power Project is a 300-megawatt (MW) coal plant completed in 2012 and 2013 in Andhra Pradesh, India. It is listed by the Central Electricity Authority as Thamminapatnam Thermal Power Plant**.**A new 350 MW unit was completed in 2018. Another 350 MW unit is under development.

Being the student of Electrical & Electronics Engineering students come to know that the operation technology used for operating the boilers of the plant and how the plant is monitored with the help of software used SCADA basically which is an centralized system used to supervise a complete plant and basically consists of data accessing features and controlling processes remotely.
It is used to monitor the boiler temperature, pressure and water level using different sensors and the corresponding output is given to the PLC which controls the boiler temperature, pressure and water level. If the temperature and pressure inside the boiler exceeds the predefined value then the entire system is shut down. In case of emergency different automated check valves are used to release pressure, steam and inform the concerned authority. PLC is also used for the internal storage of instruction for the implementing function such as logic, sequencing, timing, counting and arithmetic to control through digital or analog input/ output modules various types of machines processes & how the power is supplied to main grid how the operational technique is going to work behind will come to know by the students