

**Report on
A
Guest Lecture
Load flow analysis using MATLAB programming
Organised by
Department of Electrical and Electronics Engineering
29th May 2018– For III yr Students**

Submitted by: Dr A. V. Pavan Kumar, Sr. Assistant Professor., Dept. of EEE

Resource Person: Dr. Rajendra Prasad Narne, Associate Professor, Dep of EEE, MITS-Madanapalle.

Attended: III B-Tech EEE students (80 students)

Venue: QEEE Seminar Hall



The guest lecture was started at 10 a.m. the resource person **Dr. Rajendraprasad Narne** was introduced by Dr. Asha Rani M A, HOD, Dept. of EEE. The speaker has interacted with the student participants on basics of MATLAB in view of electrical power systems. He addresses the significance of programming language for power system engineers in real world and how these software packages (Like MATLAB) helps in solving complex problems in power system engineering. The resource person has delivered the following topics in the area of load flow studies in power systems.

1. Role of load flows studies in power systems
2. Formation of Y_{Bus} matrix using MATLAB with an example system
3. Formation of Z_{Bus} matrix using MATLAB with an example system
4. Load flow analysis by Gauss Seidel algorithm using MATLAB
5. Load flow analysis by Newton-Raphson algorithm using MATLAB

Feedback: The students were too keen to learn about the application of Matlab software in power system studies, they have written the programme for load flow and executed to calculate power flows and power losses.

Finally, the resource person was felicitated by two of III-year EEE students and Dr Asha Rani M A, HOD EEE dept.