

**NARULA INSTITUTE OF TECHNOLOGY**  
**Electrical Engineering Department**

**M Tech (Power System)** programme is being conducted since Academic Year 2010-

11. The program is supported by specific software/hardware as below:

**1. ETAP Power System Load Flow Software**

It is a simulation platform for planning, testing and training tool that "mimics" the behaviour of a real Power System network.

**2. Mi-Power**

It is a simulation platform for planning, testing and training tool that "mimics" the behaviour of a real FACTS devices such as TCSC, SVC and STATCOM.

**3. SIEMENS PLC System S-300**

It simulates status indication, relay annunciation and electrical motor load.

**4. Parallel Operation of Generators**

It provides Real-Time synchronisation panel facility for connecting two operating generators.

**5. MATLAB**

MATLAB is a high-level language and interactive environment for numerical computation, visualization, and programming. It is used extensively for multi-level contingency analysis for Power System Security.

**6. Transformer Vector Group Test Setup**

Connecting Transformer as per various vector groups and facility for testing the outcomes are available.

**Other salient features:**

- We have one **MODROBs** projects under credit:
  1. Advanced Power System Protection Lab.
- One to one PC with net connection
- Teaching Assistant Scholarship under TEQIP
- Facility for doing research
- Publication in Journal/Conference based on the M. Tech Project