

**21PPE104**

**POWER QUALITY LABORATORY**

**L T P C**

**0 0 4 2**

**OBJECTIVES:**

Students will be able to:

- Understand the different power quality issues to be addressed
- Understand the recommended practices by various standard bodies like IEEE, IEC, etc. on voltage & frequency, harmonics

**LIST OF EXPERIMENTS**

- 1.To study the effect of non linear loads on power quality.
- 2.To demonstrate the voltage and current distortions experimentally.
- 3.To reduce the current harmonics with filters.
- 4.To study the voltage sag due to starting of large induction motor.
- 5.To calculate the distortion power factor.
- 6.To study the capacitor switching transients.
- 7.To study the effect of ground loop.
- 8.To study effect of voltage sag on electrical equipment.
- 9.To study the effect of voltage flicker.
- 10.Study the effect of harmonics on energy meter reading.

**TOTAL: 30 Periods**

**COURSE OUTCOMES:**

After successful completion of this course the students will be able to:

- Acquire knowledge about the harmonics, harmonic introducing devices and effect of harmonics on system equipment and loads
- Develop analytical modeling skills needed for modeling and analysis of harmonics in networks and components
- To introduce the student to active power factor correction based on static VAR compensators and its control techniques
- To introduce the student to series and shunt active power filtering techniques for harmonics

# Power Quality Lab Manual

**Jiyuan Zhang**



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