

## Course Objective

### **The objectives of this course are**

1. The ability to conduct testing and experimental procedures on Transient analysis of different electrical circuits with and without initial conditions using Laplace Transform.
2. To give a chance to students to solve two port networks analysis.
3. The capability to analyze the Low and High Pass filter.
4. To prepare the students to have a basic constructional knowledge of Step, Ramp, Impulse, Sinusoidal, Cosinusoidal, Exponential, Gate signals.

## Course Outcome

### **On completion of the course students will be able to**

1. Solve the two port network analysis.
2. Select a suitable measuring instrument for a given electrical machine.
3. Conduct experimental investigation and gain knowledge of Filter circuit.
4. Solve the Laplace Transform and Inverse Laplace Transform.
5. Analyze the response of Step, Ramp, Impulse, Sinusoidal, Cosinusoidal, Exponential, and Gate signals.