

Electrical circuits (1) [3 – 0 – 1]

Course #:0904211

Prereq.: 0300122

Basic Electric Components and Equivalent Circuit. Kirchhoff's laws (KVL and KCL). Circuit analysis techniques: Nodal analysis, mesh analysis, superposition, source transformations. Thevenin and Norton theorems, maximum power transfer. Unit step response of RL and RC circuit. Steady state sinusoidal circuit analysis using phasor techniques