

Course Name - Circuit Theory

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Course Syllabus -

- 1) Review of Signals and Systems
- 2) Network equations
- 3) Step Impulse and Complete Response
- 4) 2nd order Circuits
- 5) Transform Domain Analysis
- 6) Network Theorems and Network Functions
- 7) Tuned Circuits
- 8) Two-port Networks
- 9) Elements of Realizability Theory
- 10) Positive Real Functions
- 11) L C, R C and R L Driving Point Synthesis
- 12) LC 1-port and 2-port Synthesis
- 13) Properties and synthesis of Transfer Parameters
- 14) Resistance Terminated L C Ladder
- 15) Network Transmission Criteria