

MICROWAVE ACTIVE CIRCUIT DESIGN TRAINERS

MCT-2003



Description : Curriculum Outline:

1. Design and implementation of microwave front end receiver module.
2. Design and implementation of microwave front end transmitter module.
3. Design and implementation of voltage controlled oscillator and phase locked loop.
4. Design and implementation of IQ modulator and demodulator.
5. Design and implementation of digital wireless transceiver module.

Features : Curriculum Objectives:

1. Training for wireless communication technicians and engineers.
2. To understand the applications and measurements of communication instruments and products.
3. Design and implementation ability training for microwave module circuit.
4. To understand the applications of microstrip line in microwave circuits design.
5. To shorten the gap between academic and industrial circles.

Specification : Design and Measurement of Microstrip Matching Circuit

Design and Measurement of Low Noise Amplifier

Design and Measurement of Voltage Controlled Oscillator

Design and Measurement of High Gain Amplifier

Design and Measurement of Power Amplifier

Design and Measurement of Phase Locked Loop Controller

Design and Measurement of Phase Locked Loop

Design and Measurement of Image-rejection Mixer

Design and Measurement of Double Balanced Mixer

Design and Measurement of IQ Modulator

Design and Measurement of IQ Demodulator

Design and Implementation of Digital Wireless Transmitter

Design and Implementation of Digital Wireless Receiver