Diploma, Anna University-UG, PG., HSC & SSLC

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CU5161 COMMUNICATION SYSTEMS LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- 1. To acquire knowledge on Transmission line and S- parameter estimation of microwave devices.
- 2. To introduce the basics of Microstrip Patch Antenna and its analysis.
- 3. To study & measure the performance of digital communication systems.
- 4. To provide a comprehensive knowledge of Wireless Communication.
- 5. To learn about the design of digital filter and its adaptive filtering algorithms.

LIST OF EXPERIMENTS

USE NETWORK ANALYSER FOR THE FOLLOWING EXPERIMENTS

- 1. Measurement of transmission line parameters.
- 2. S-parameter estimation of Microwave devices.
- 3. Design and testing of a Microstrip coupler.
- 4. Characteristics of Microstrip patch antenna.

USE APPROPRIATE SIMULATION TOOLS FOR THE FOLLOWING EXPERIMENTS

- 1. Generation & detection of binary digital modulation techniques.
- 2. Spread Spectrum communication system-Pseudo random binary sequence generation Baseband DSSS.
- 3. Digital Filter Design
- 4. Performance evaluation of simulated CDMA system
- 5. Channel equalizer design (LMS, RLS)
- 6. Antenna Radiation Pattern measurement