ANURAG ENGINEERING COLLEGE

(An Autonomous Institution)

III Year B.Tech. ECE - II Sem T/P/D C

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(EC605PC) MICROWAVE ENGINEERING AND DIGITAL COMMUNICATIONS LAB

Note:- minimum 12 experiments to be conducted

Part-A: Microwave Engineering Lab (Any 6 experiments)

- 1. Reflex klystron characteristics
- 2. Gunn diode characteristics
- 3. Directional coupler characteristics
- 4. VSWR measurement
- 5. Measurement of waveguide parameters
- 6. Measurement of impedance of a given load
- 7. Measurement of a scattering parameters of a magic tee
- 8. Measurement of scattering parameters of circulator
- 9. Attenuation measurement
- 10. Microwave frequency measurement

Part-B: Digital Communication Lab (Any 6 Experiments)

- 1. PCM generation and detection
- 2. Differential pulse code modulation
- 3. Delta modulation
- 4. Time division multiplexing of 2 band limited signals
- 5. Frequency shift keying
- 6. Phase shift keying
- 7. Amplitude shift keying
- 8. DPSK: generation and detection
- 9. QPSK: generation and detection
- 10. Study of the spectral characteristics of PAM,QAM