34055 - ADVANCED COMMUNICATION SYSTEMS PRACTICAL

DETAILED SYLLABUS

LIST OF EXPERIMENTS

1. Simulate the ASK Modulation and demodulation using the simulation tool like PSPICE/ multisim/orcad/tina

2. Simulate the FSK Modulation using the simulation tool like PSPICE/ multisim/orcad/tina

3. Simulate PSK Modulation and demodulation. using the simulation tool like PSPICE/ multisim/orcad/tina.

4. Simulate the Instrumentation amplifier using the simulation tool like PSPICE/ multisim/orcad/tina

5. Construct the circuit of a FSK Modulator & determine the output. Waveform.

6. Construct the circuit of a FSK Demodulator & determine the output waveform.

7. Construct the circuit to determine the output of a TDM signal.

8. Construct and test a fiber optic analog link.

9. Construct and test a fiber optic digital link.

10. Construct a suitable circuit & find the bending loss and propagation loss in fiber optics.

11. Construct and test the performance of Manchester encoder and decoder.

12. Construct and measure the Numerical aperture of optical fiber.

13. Construct and test a voice link (with telephone handset both at transmitter and receiver using optical fiber)

14. Install a DTH system. & test it.

15. Construct a LED circuit to find the photo diode characteristics