

COURSE CODE	COURSE NAME	L-T-P-C	YEAR OF INTRODUCTION
EC332	Communication Engineering Lab (Analog & Digital)	0-0-3-1	2016
Prerequisite: EC204 Analog Integrated Circuit, EC208 Analog Communication Engineering.			
Course objectives: <ul style="list-style-type: none"> To provide experience on design, testing and analysis of few electronic circuits used in communication engineering. 			
List of Experiments: <p>Cycle I (Six experiments are mandatory)</p> <ol style="list-style-type: none"> 1. AM generation using discrete components. 2. AM using multiplier IC AD534 or AD633. 3. AM detection using envelope detector. 4. IF tuned amplifier. 5. FM using 555 IC. 6. FM generation and demodulation using PLL. 7. Frequency multiplier using PLL 8. Pre-emphasis and de-emphasis circuits 9. Analog signal sampling & Reconstruction <p>Cycle II (Six mandatory)</p> <ol style="list-style-type: none"> 10. Generation of Pseudo Noise Binary sequence using Shift registers 11. Time Division Multiplexing and Demultiplexing 12. Generation & Detection of DM/SIGMA DELTA/ ADM 13. Generation & Detection of PAM/PWM/PPM 14. Generation & Detection of BPSK/DPSK/DEPSK 15. Generation & Detection of PCM 16. 16 QPSK Modulation and Demodulation 			
Expected outcome: The students will be able to understand the basic concepts of circuits used in communication systems.			

