

**ANALOG AND DIGITAL COMMUNICATION LAB  
PCC-ECE204-P**

Course Code Course Credits : 1 Contact Hours: 2 hours/week Mode : Lab Work	Course Assessment Methods (Internal: 30; External: 70)
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Sr. No.	Course Outcomes <b>At the end of the semester, students will be able:</b>	RBT Level
CO 1	To describe the modulation and demodulation process in analog and digital communication system.	L1
CO 2	To illustrate simple analog communication systems	L2
CO 3	To compare digital modulation signals for ASK, BPSK, QPSK and FSK and perform their detection	H1
CO 4	To design a simple project on the digital communication system	H2

**List of Experiments**

1. Familiarization with the control panel and various measurements using CRO & Function Generator.
2. Study of Amplitude Modulation & Demodulation and determination of Modulation index.
3. Study of Frequency Modulation and Demodulation.
4. Study of Pulse Amplitude Modulation and Demodulation.
5. Study of Pulse Width Modulation and Demodulation.
6. Study of Pulse Code Modulation.
7. Study of ASK Modulation Technique.
8. Study of FSK Modulation Technique.
9. Study of BPSK Modulation Technique.
10. Study of QPSK Modulation Technique
11. Simple project (Any topic related to the scope of the course).

**Note:** Atleast eight experiments are to be performed in the semester, out of which minimum six experiments should be performed from above list. Remaining experiments may either be performed from the above list or designed and set by concerned institution as per the scope of the syllabus.