

Wireless Communication and Networks Lab	L	P	C
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Discipline(s) / EAE / OAE	Semester	Group	Sub-group	Paper Code
CSE-NET	6	PC	PC	WMC-340P
EAE	6	WMC-EAE	WMC-EAE-1C	WMC-336P
IT	7	PCE	PCE-4	CIE-415P

Marking Scheme:

1. Teachers Continuous Evaluation: 40 marks
2. Term end Theory Examinations: 60 marks

Instructions:

1. The course objectives and course outcomes are identical to that of (Wireless Communication and Networks) as this is the practical component of the corresponding theory paper.
2. The practical list shall be notified by the teacher in the first week of the class commencement under intimation to the office of the Head of Department / Institution in which the paper is being offered from the list of practicals below. Atleast 10 experiments must be performed by the students, they may be asked to do more. Atleast 5 experiments must be from the given list.

1. An introduction to basic digital baseband communication through MATLAB® simulations
2. Simulate Bluetooth voice transmission to observe effect of AWGN and interference of 802.11b on transmission using MATLAB and Simulink.
3. Develop a mobile application for wireless technology using any wizards such as available on www.appypie.com or any other.
4. Simulate the line coding techniques using MATLAB and Simulink
5. Simulate the Binary amplitude shift keying using MATLAB and Simulink
6. Simulate the Binary phase shift keying using MATLAB and Simulink
7. Simulate the Quadrature phase shift keying using MATLAB and Simulink
8. Simulate the Delta Modulation using MATLAB and simulink.
9. Simulate the Adaptive delta Modulation using MATLAB and simulink.
10. Simulate the Direct sequence spread spectrum using MATLAB and Simulink
11. Simulate WSN node to determine position on node and blink LED using cupcarbon simulator and senscript.