

Title: Simulate BER Performance over Rayleigh Fading wireless channel with BPSK Transmission

Problem Statement:

Simulate BER Performance over Rayleigh Fading wireless channel with BPSK Transmission for SNR 0 to 10 db..

Objectives:

- What is a Rayleigh Fading
- Study of BPSK transmission

Software Requirements:

- Windows 7/10/11
- Matlab

Experiment No. 2

Subject: - Mobile Computing

Name of the Student: Saurabh B. Jash Roll No. 4040031

Date: \_\_\_\_\_

Marks & Signature: -

Patan  
Subject Teacher

Title: Configure a Cisco Router as a DHCP Server

Problem Statement:

Configuring a Cisco Router as a DHCP Server.

Objectives:

- ☐ What is a DORA PROCESS?
- ☐ Benefits of DHCP
- ☐ How it works?

Outcome:

Deploy Client-Server architectures and prototypes by the means of correct standards and technology  
Assign IP address.

Software Requirements:

Open-source Linux operating system, Cisco Packet Tracer.

Aim: To understand the handover mechanism.

Objectives:

To study the effect of handover threshold and margin on SINR and call drop probability and handover probability

Prerequisite:

Operating System: Windows 7

Java Version: 6 only

Mozilla Firefox: version: 47.0.1

Link to download software:

<https://drive.google.com/uc?id=0B9mNeu43jUIdckFYVTlnenpJRGs&export=download>

- Step9: To redo experiment click on RESET button.

Observation Table:


Reuse	No of Hand Off	Mobile Speed	Outage	Outage Percentage
1	1	50	16464.0	80.77
3	1	50	0.0	0.0

Keep reuse ratio 3 and set mobile speed to 50 mps and 100 mps and record the below data. do we observe after increasing the speed of the mobile station?

Reuse	Mobile Speed	No of Hand off	Outage	Outage Percentage
3	50	3.0	0.0	0.0
3	100	10.0	392.0	1.94

FAQ:

1. What is handoff?
2. What is the condition for handoff?
3. Explain Handoff and its types.

Marks (Out of 20)				Signature of Faculty with Date
MR (6)	MP (6)	MU (8)	Total (20)	
4	5	5	14	
MR - Marks for Regularity, MP - Marks for Presentation, MU - Markk for Understanding				

✓ ✓  
File sharing by using TCP Protocol

System Statement:

Perform File Transfer in Client & Server Using TCP/IP.

Objectives:

- What is a socket?
- The client-server model.
- Remote Communication

Outcome:

Develop Client-Server architectures and prototypes by the means of correct standards and technology.

Software Requirements:

• Open-source Linux operating system.



E:

and BER for AWGN Channel using python

Study AWGN channel and to measure Bit Error Rate.

#### SOFTWARE & HARDWARE REQUIREMENTS:

OS: Unix or windows 7/8/10,

Processor: i3/i5/i7

Software: Python (Jupyter Notebook) or java