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Agnel Charities'

Fr. C. RODRIGUES INSTITUTE OF TECHNOLOGY

DEPARTMENT: _____

LABORATORY CONTINUOUS ASSESSMENT FORMAT

First / Second Half of _____

Course Name:

Networking lab

Name of the Teacher:

Pooja. Anita Rukhade

Name of the Student:

Vinayak. Datta. Gauruchi

Roll No:

5020116

Semester:

4

Batch:

B 2

Practical No:

3

Date of Practical:

1/2/2022

Date of Report Submission:

8/2/2022

Title:

Design of Service Network topology with respect to no. of nodes & physical layer

Course Outcome:

Demonstrate & measure diff. network scenarios & their performance

ASSESSMENT

Sr. No.	Parameter for Assessment	Marks	Rubrics		
1.	Practical Performance / Active Participation (03 Marks)	2	Above Average (03)	Average (02)	Below Average (01)
2.	Report Presentation (02 Marks)	2	Above Average (02)	Average (01)	Below Average (00)
3.	Understanding (03 Marks)	2	Above Average (03)	Average (02)	Below Average (01)
4.	Regularity in Submission (02 Marks)	2	Timely (02)	Late (01) (≤ 2 Weeks from the date of Practical)	Very Late (00) (> 2 Weeks from the date of Practical)

Total Marks (10): 08

Teacher's Signature:

8512
8/2

Date:

Name - Vinayak D. Gaurathi

Date - 2-03-2021

Branch - IT

Subj - NL

Experiment - 3.

Aim: Design of Specific network topology with respect to number of nodes and physical layer.

Objective: Design and run simulator scenario using NS2 simulator and visualization. NAN

Course outcome: Demonstrate and measure different network scenarios and their performances.

Theory: Any two nodes in network can be connected through link and link characteristics include bandwidth, delay and queue type.

STEP-BY-STEP WIRELESS NETWORK

Step 1: Creating Simulator Objective

The network simulator script starts with simulator class set as [new Simulator]

ns is defined to handle simulator object [ns class] is used for functions belonging to simulator class.

Step 2: Tracing



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LABORATORY CONTINUOUS ASSESSMENT FORMAT

First / Second Half of _____

Course Name:

Networking lab

Name of the Teacher:

P806. Smita Rukhade

Name of the Student:

Vinayak. Datta. Garudi

Roll No:

5020116

Semester:

4

Batch:

B 1

Practical No:

3

Date of Practical:

1/2/2022

Date of Report Submission: 8/2/2022

Title:

Design of specific network topology with respect to no. of nodes & physical layer

Course Outcome:

Demonstrate & measure diff. network scenarios & their performance

ASSESSMENT

Sr. No.	Parameter for Assessment	Marks	Rubrics		
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4.	Regularity in Submission (02 Marks)	2	Timely (02)	Late (01) (≤ 2 Weeks from the date of Practical)	Very Late (00) (> 2 Weeks from the date of Practical)

Total Marks (10): 08

Teacher's Signature:

Smita Rukhade
8/2

Date:

Name - Vinayak G. Chaudhary

Date - 2-03-2021

Branch - IT

Subj - NL

Experiment - 3.

Aim: Design of specific network topology with respect to number of nodes and physical layer.

Objective: Design and run simulation scenario using NS2 simulator and visualize. N/A

Course outcome: Demonstrate and measure different network scenarios and their performance.

Theory: Any two nodes in network can be connected by a link and link characteristics include bandwidth, delay and queue type.

STEP - BY STEP WIRELESS NETWORK

Step 1: Creating simulator objective

The network simulator script starts with simulator instance set as [new Simulator]

NS is defined to handle simulation object. For example, A set of functions belonging to simulator class.

Step 2: Tracing

Code:

```

Set ns [new Simulator]
Set of Topo [Simnam W]
$ns nam trace -all $ns
Set tg [topo simnam]
$ns trace -all $tg
proc finish {}
  flush ns at 15
  $ns flush-trace
  close $ns
  close $tg
  exec nam Simnam &
  exit 0
}

Set no [$ns node]
Set n1 [$ns node]
$ns duplex -like $no $n1 2mb 10ms 0.800 720
Set udp0 [new Agent /UDP]
$ns attach -agent $no $udp0
Set cbx0 [new Application Traffic /CBR]
$cbx0 attach -agent $udp0
Set null0 [new Agent /Null]
$ns attach -agent $n2 $null0
$ns connect $udp0 $null0
$ns at 0.5 "$cbx0 start"
$ns at 4.5 "$cbx0 stop"
$ns at 5.5 "finish"
$ns run

```

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