

TCET/FRM/IP-02/09					Revision: A		
Bridge Course Plan							
Semester: III				Course: IT			
Subject: INTRODUCTION TO NETWORK SIMULATOR				2 Lectures / Week		Class: SE IT A& B	
Sr. No.	Module No.	Lesson No.	Topics Planned (Technology to be used)	Teaching Aids Required	Planned /Completion Date	Resource Book Reference	Remarks
1.	Module 1	L 1.1	Unit 1: Introduction to NS2 NS2 two language	Power point presentation , Chalk & Board		1.2, 2.1	
2.		L 1.2	NS 2 architectures	Power point presentation , Chalk & Board		1.2, 2.1	
3.	Module 2	L 2.1	Unit 2: Installation of NS2 Installation on Linux	Power point presentation , Chalk & Board		1.2	
4.		L 2.2	Wired scenario setup UDP & CBR	Power point presentation , Chalk & Board		1.2	
5.		L 3.1	Simulation Script Running Simulation Script	Power point presentation , Chalk & Board		1.1	
6.	Module 3	L 3.2	Unit 3: Introduction to NS2 3.1 NS2 commands	Power point presentation , Chalk & Board		1.1	
7.		L 4.1	Tcl Basics Variables	Power point presentation , Chalk & Board		1.1	
8.		L 4.2	Basic operations If-else	Power point presentation , Chalk & Board		1.1, 2.1	

9.		L 5.1	loop array	Power point presentation , Chalk & Board		1.2	
10.	Module 4	L 5.2	Unit 4: programming using scripts Creating node	Power point presentation , Chalk & Board		1.2, 2.1	
11.		L 6.1	Creating link Creating agent	Power point presentation , Chalk & Board		1.2	
12.	Module 5	L 6.2	Writing scripts for wired networks	Power point presentation , Chalk & Board		1.2, 2.1	
13.		L 7.1	Unit 5: Wired Trace format	Power point presentation , Chalk & Board		1.2	
14.		L 7.2	Analysis using AWK Script	Power point presentation , Chalk & Board		1.2, 2.1	
15.		L 8.1	Node orientation	Power point presentation , Chalk & Board		1.3, 2.2	
16.		L 8.2	Review Questions	Power point presentation , Chalk & Board		1.2, 2.2	
17.		L 9.1	Assignments	Power point presentation , Chalk & Board		1.3	
18.		L 9.2	Application Development	Power point presentation , Chalk & Board		1.3, 2.2	
19.		L 10.1	TEST	Power point presentation , Chalk & Board		1.3	
Remark: Course:		Syllabus Coverage:					

No. of (lectures planned)/(lecture taken): **20 Hours**

Reference Books:

1. Introduction to Network Simulator NS2, Second Edition, Teerawatissariyakul , Ekram Hossain
2. Forouzan, Data Communication & Networking, Tata McGraw Hill, 3rd Edition
3. Andrew S Tanenbaum, Computer Networks, Prentice Hall, 4th Edition.

Digital Reference:

1. <http://www-sop.inria.fr/maestro/personnel/Eitan.Altman/COURS-NS/n3.pdf>
2. TCL Tutorial: <http://www.tcl.tk/man/tcl8.5/tutorial/tcltutorial.html>
3. TCL manual: <http://www.tcl.tk/man/tcl8.6/TclCmd/contents.html>
4. <http://www.isi.edunsnam/ns/tutorial/index.html>
5. <http://www.isi.edu/nsnam/ns/doc/index.html>
6. Website: <http://ns2ultimate.com>

MsSangeetaVhatkar

Ms. Swati Abhang Dr. Rajesh Bansode

Name & Signature of Faculty

Date:

Signature of HOD

Date:

Signature of Principal /Dean (Academics)

Date:

Note:

1. Plan date and completion date should be in compliance
2. Courses are required to be taught with emphasis on resource book, course file, text books, reference books, digital references etc.
3. Planning is to be done for 15 weeks where 1st week will be AOP, 2nd -13th for effective teaching and 14th -15th week for effective university examination oriented teaching, mock practice session and semester consolidation.
4. According to university syllabus where lecture of 4 hrs/per week is mentioned minimum 55 hrs and in case of 3 lectures per week minimum 45 lectures are to be engaged are required to be engaged during the semester and therefore accordingly semester planning for delivery of theory lectures shall be planned.
5. In order to improve score in NBA, faculty members are also required to focus course teaching beyond university prescribed syllabus and measuring the outcomes w.r.t learning course and programme objectives.
6. Text books and reference books are available in syllabus. Here only additional references w.r.t. non -digital/ digital sources can be written (if applicable)
7. Technology to be used in class room during lecture shall be written below the topic planned within the bracket.