

COURSE CODE	COURSE TITLE	L	T	P	C
1152CS301	NETWORK ANALYSIS LAB	0	0	2	1

Course Category: Program Elective

A. Preamble:

Network analysis is the method of planning and controlling projects by recording their interdependence in a diagrammatic form which enables each fundamental problem involved to be tackled separately.

B. Prerequisite Courses:

SI No	Course Code	Course Name
1	1151CS111	Computer Networks

C. Related Courses:

SI No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. Course Educational Objectives:

Students undergoing this course are expected to:

- Minimize idle resources.
- Minimize the total project cost.
- Tradeoff between time and cost of project.
- Minimize production delays, interruptions and conflicts.
- Minimize the total project duration.

E. Course Outcomes:

Upon the successful completion of the course, students will be able to:

CO Nos.	Course Outcomes	Knowledge Level (Based on revised Bloom's Taxonomy)
CO1	Apply the knowledge of basic circuit law and simplify the network using reduction techniques	S3
CO2	Construct the circuit using Kirchhoff's law and Network simplification theorems	S3
CO3	Infer and evaluate transient response, Steady state response, network functions	S3

F. Correlation of COs with POs and PSOs:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	H	L	L		L			L	M				M		L
CO2	H	L	L	M	M			L	L			L	M	L	M
CO3	M	L	L		M				M			L			

Course Content

LIST OF EXPERIMENTS:

CYCLE I

S. No	Experiment name
1	Setting up router name and password
2	Setting up telnet, MOTD banner, etc
3	Test telnet connection
4	Cisco Password Encryption
5	Switch configuration
6	Basic router configuration
7	Speed and Duplex
8	Cisco port security
9	Static Route
10	Default Route

CYCLE II

11	Rip Configuration
12	Router on a Stick
13	Spanning tree protocol
14	NAT
15	Dynamic NAT
16	Static NAT
17	Serial connection
18	PPP encapsulation
19	CDP Protocol

Online References

- <http://www.packettracerlab.com/>