



**VIT**  
**UNIVERSITY**

( Estd. u/s 3 of UGC Act 1956)

Vellore - 632 014, Tamil Nadu, India.

**School of Information Technology and Engineering**

**ITA412 - Computer Networks Laboratory**

**Cycle Sheet I**

**Course : M. C. A**

**Semester : III**

- 1) Study and test the functionality of basic networking commands with all the options through command prompt in windows.
  - a) **PING**
  - b) **IPCONFIG**
  - c) **HOSTNAME**
  - d) **NETSTAT**
  - e) **TRACEROUTE or TRACERT**
  - f) **ARP**
  - g) **NSLOOKUP**
- 2) Study on all available Classes, Interfaces, Methods and Exceptions in Java networking package?  
Ref: <http://docs.oracle.com/javase/1.4.2/docs/api/java/net/package-summary.html>
- 3) Execute the basic network commands which you tested in exercise1 through a Java program?.
- 4) Write a program to display the name of the computer and its IP address that you are currently working on?
- 5) Write a program to print the IP address of “www.google.com” all IP addresses of “www.microsoft.com”.
- 6) Write a program to print all Network Interfaces of “localhost”.
- 7) Write a program to download the contents associated with a HTTP URL and save it in a file.

- 8) Write a program to list all ports hosting a TCP server in a specified host and identify available servers in well-known ports?
- 9) Code a program to get the headers of HTTP?
- 10) Write a program to display the server's date and time details at the both client and server end.
- 11) Write a program to implement a simple message transfer from client to server process using TCP/IP.