



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

Vellore - 632 014, Tamil Nadu, India.

## **School of Information Technology and Engineering**

**Fall-2015**

### **B.Tech (Information Technology) - V Semester**

#### **ITE 304 Computer Networks Lab**

#### **Cycle sheet-2**

1. Write a program to list all ports hosting a TCP server in a specified host and identify available servers in well-known ports?
2. Implement echo server and client in java using TCP sockets.
3. Implement date server and client in java using TCP sockets.
4. Write a program to implement a simple message transfer from client to server process using TCP/IP.
5. Develop a TCP client/server application for transferring a text file from client to server?
6. Implement a chat server and client in java using TCP sockets.
7. Implement a TCP based server program to authenticate the client's User Name and Password. The validity of the client must be sent as the reply message to the client and display it on the standard output.
8. Find the physical address of a host when its logical address is known (ARP protocol) using TCP/IP.
9. Find the logical address of a host when its physical address is known (RARP protocol) using TCP/IP.
10. Implement Domain Name System (DNS) using TCP/IP
11. Implement a TCP/IP based Server program in Java to compute the factorial of a number (can contain arbitrary number of digits). Write a client program to test the working of the same.
12. Find the class of the IP address using TCP/IP.