

## CS 506 NETWORK PROGRAMMING LAB (0-0-6: 3)

### Laboratory Exercises:

1. Basic client server socket programming in tcp/udp using C and Java.
2. Implementation of Inter Process Communication (IPC).
3. Simulation Experiments for protocol and topology performances using NS-2 or any other network simulator.
4. Software defined networking applications using Openflow controllers and Mininet.
5. Virtual networking, cloud based networking experiments.

### References:

1. An Introduction to Network Programming with Java, by Jan Graba, Springer publication
2. Java network programming, O'Reilly publication, E.R. Herold
3. Unix network programming, vol. 1, R. Stevens, Prentice Hall
4. Unix network programming, vol. 2: IPC, R. Stevens, Prentice Hall
5. Openflow tutorials and cloud set-up tutorials will be taken from related web-sites.