

CS 702: SELECTED TOPICS IN COMPUTER NETWORKS (4-0-0: 4)

Network performance and modeling, Quality of service.

Cross-layer architecture, Overlay networks, Software Defined Networks.

Wireless networks, Wireless Mesh networks, Sensor networks and Ad hoc networks.

Security issues in Networks.

References:

1. Computer Networks, A Systems Approach, Third Edition, L. Peterson and B.S. Davie, Morgan Kaufmann.
2. Computer Networking, A Top-Down Approach Featuring the Internet, Second Edition, J.F. Kurose and K.W. Ross, Addison-Wesley.
3. Computer Networks, A. Tanenbaum, Prentice-Hall.
4. Computer Networks and Internets with Internet Applications, Third Edition, D.E. Comer, Prentice-Hall.
5. Communication Networks, Fundamental Concepts and Key Architecture, A. Leon-Garcia and I. Wadjaja, McGraw-Hill.
6. Data Communications, Computer Networks and Open Systems, Fourth Edition, F. Halsall, Addison-Wesley.
7. Requests for Comments (RFCs), Information Sciences Institute, USC, CA.
8. Internet Drafts , published by Internet Engineering Task Force.