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## Telecommunication Switching Systems And Networks By T Viswanathan Pdf Free Download

Lecture Notes Faculty: S. Agrawal

Subject: Communication Networks and Switching (CNS)

2<sup>nd</sup> Semester, M.Tech (Communication System Engineering)

**Module-I:** (10 Hours)

Overview of switching systems, Electronic switching and stored program control systems, Centralized SPC, Availability, Distributed SPC, Enhanced services, Digital switching: time switching, space switching, time and space switches, Switching techniques: Circuit Switching, Message and Packet Switching.

**Module-II:** (10 Hours)

Computer controlled switching systems: Introduction, Call processing, signal exchange diagram, state transition diagram, hardware configuration, switching system software organization, software classification and interfacing, Maintenance software, call processing software, Administration software, Electronic Exchanges in India.

**Module-III:** (10 Hours)

Traffic engineering: Traffic pattern, Grade of Service and blocking probability, modeling of switching systems: Markov Process, Birth-Death Process.

Telephone network organization: Network management, Network services, various networking plans, types of networks, Routing plan, International numbering plan, National numbering plan, Numbering plan in India, Signaling: in channel signaling, common channel signaling.

**Module-IV:** (10 Hours)

Overview of ISDN, VPN, VOIP, IP switching

### Text books

1. Telecommunication Switching Systems and Networks, by Thiagarajan Viswanathan, PHL.
2. Telecommunication Systems Engineering, R. L. Freeman, 4/e, Wiley publication, 2010

### Reference books

1. Telecommunication Switching and Networks. By P.Gnanasivam, New Age International.

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