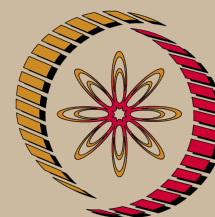


# Broadband Networks: Concepts and Technology - Video course

1. Overview of internet –concepts, challenges and history.
2. Next Generation Internet- challenges and problems.
3. Multicasting in Internet.
4. Real time communication over Internet.
5. Packet scheduling Algorithms- requirements and choices.
6. Admission control in internet.
7. Differentiated Services in internet.
8. Internet Telephony and voice over IP (VoIP)- RTP and RTCP.
9. Broadband ISDN and ATM Networks- ATM protocols.
10. IP switching and MPLS- Overview of IP over ATM and its evolution to IP switching.
11. Policy based Networking. Policy servers.
12. Web in Qos domain. Architecture for Web Qos.
13. Web Access – Intelligent web browsing and web caching.
14. Internet and web Traffic measurement and characterization. Prediction for network management.
15. Optical communication networks- DWDM based transport network. Issues in IP over DWDM optical IP routers and switching.



NP-TEL

## NPTEL

<http://nptel.ac.in>

### Electronics & Communication Engineering

**Coordinators:**

**Prof. Abhay Karandikar**  
Department of Electrical  
Engineering IIT Bombay