

Computer Networks and Internet Protocol

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Description	Additional information	Certification Process
Course Details	Reviews (0)	



Course Details

Week 1 : Introduction to Computer Networks – History, Circuit

Switching and Packet Switching

Week 2 : TCP/IP Protocol Stack – Basic Overview

Week 3 : Application Layer Services (HTTP, FTP, Email, DNS)

Week 4 : Transport Layer Primitives – Connection Establishment and Closure

Week 5 : Flow Control and Congestion Control at the Transport Layer

Week 6 : Transmission Control Protocol – Basic Features, TCP Congestion Control

Week 7 : Network Layer Primitives – IP Addressing

Week 8 : IP Routing – Intra Domain Routing Protocols, Inter Domain Routing Protocols (BGP)

Week 9 : IP Services – SNMP, ARP

Week 10 : Data Link Layer Service Primitives – Forwarding, Flow Control, Error Control

Week 11 : Media Access Control – Channel Access Protocols, Framing

Week 12 : End to End Principles of Computer Networks

Books and References:

Computer Networking: A Top – Down Approach, by Ames Kurose, Keith Ross

Computer Networks – Andrew S Tanenbaum

Computer Networks: A Systems Approach Book by Bruce S. Davie and Larry L. Peterson

TCP/IP Tutorial and Technical Overview, (IBM Redbook) – Download

From <http://www.redbooks.ibm.com/abstracts/gg243376.html>

(<http://www.redbooks.ibm.com/abstracts/gg243376.html>)

TCP/IP Guide, Charles M. Kozierok, Available Online –

<http://www.tcpipguide.com/> (<http://www.tcpipguide.com/>)

Request for Comments (RFC) – IETF – <http://www.ietf.org/rfc.html>

(<http://www.ietf.org/rfc.html>)

Journals/Transactions

IEEE/ACM Transactions on Networking IEEE Transactions on Mobile

Computing ACM SIGCOMM Computer Communication Review IEEE

Transactions on Communication





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 **NPTEL Online Certification**
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This certificate is awarded to
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for passing the course
Computer Networks and Internet Protocol
with Score* **86** %


Covid-19
Impacted
January 2020
semester

A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Jan-Apr 2020
(12 week course)

 Indian Institute of Technology Kharagpur



*Continuous online assessment score To validate and check scores: <https://nptel.ac.in/noc>