

## ELECTIVE –4 (GROUP D)

Written by Administrator  
Saturday, 07 November 2009 06:22 -

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### Distributed System

Subject Code		:
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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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Exam Hours		: 03
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Total no. of Lecture Hrs.		: 52
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Exam Marks		: 100
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### Text book:

1. **“Distributed Systems, Concepts & Design”**, George Coulouris, Jean Dollimore, Tim Kindberg, fourth edition, 2006. Pearson education.

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### Reference book:

1. **“Distributed System Architecture, a Middleware Approach”** Arno puder, Kay Romer, Frank Pilhofer, Morgan Kaufmann publishers.

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### Network security

Subject Code		:
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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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Exam Hours		: 03
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Total no. of Lecture Hrs.		: 52
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Exam Marks		: 100
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### PART - A

#### Unit - 1











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### Internet Engineering

Subject Code		:
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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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Exam Hours		: 03
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Total no. of Lecture Hrs.		: 52
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Exam Marks		: 100
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1. **The Internet and its Protocols**, Adrian Farrel, Elsevier, 2006.
2. **TCP/IP Protocol Stack**, B A Forouzan, TMH, 2006.

### Biomedical Signal Processing

Subject Code		:
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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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### High Performance Computer Networks

Subject Code		:	
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IA Marks		:	25
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No. of Lecture Hrs/Week		:	04
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Exam Hours		:	03
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Total no. of Lecture Hrs.		:	52
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Exam Marks		:	100
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### **PART - A**

#### **Unit - 1**

History of Communication Networks, Networking principles, Future networks Internet, Pure TAM Network, Cable Network, Wireless.

**6 Hours**

#### **Unit - 2**

**Network services and Layered Architecture:** Applications, Traffic characterization and quality of services, Network services, High performance networks, Network Elements., Layered applications, Open data network model, Network architectures, Network bottlenecks.





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### Unit - 5

**ATM:** Main features of ATM, Addressing, signaling and Routing, ATM header structure, ATM AAL, Internetworking with ATM.

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7 Hours

### Unit - 6

**Wireless Networks:** Link level design, Channel Access, Network design, Wireless networks today, Future networks, ad hoc networks, High speed Digital cellular, Home RF and Bluetooth.

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6 Hours

### Unit - 7

Control of networks, Objectives and methods of control, Circuit switched networks, Datagram Networks Network economics, Derived demand for network services, ISPs, subscriber demand



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Stallings  
, Pearson Edu., 2001.

2. **Building High-Speed Networks**, Tere Parnell, TMGH, 2000.

**Fuzzy Logic**

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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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Exam Hours		: 03
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Total no. of Lecture Hrs.		: 52
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### PART - A

#### Unit - 1

**Introduction:** Background, Uncertainty and imprecision, Statistics and random processes, Uncertainty in information, Fuzzy sets and membership, Chance versus ambiguity, Classical sets - operations on classical sets to functions, Fuzzy sets-fuzzy set operations, Properties of fuzzy sets. Sets as points in hypercubes.











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### **Reference book:**

1. **Nural networks and fuzzy systems: A dynamical system approach**, B. Kosko, Pearson Edu. 1991.