Exam Hrs

Written by Administrator Sunday, 08 November 2009 05:31 -
Distributed System
Subject Code
06EC831 IA Marks
25
No. of Lecture Hrs/ Week
04

Written by Administrator Sunday, 08 November 2009 05:31 -
03
Total no. of Lecture Hrs.
52
Exam Marks
100
PART - A
Unit - 100000000000000000000000000000000000

**ELECTIVE - 4 (GROUP D)** Written by Administrator Sunday, 08 November 2009 05:31 -Characterization of distributed systems: Introduction, Examples of distributed systems, Resource sharing and the web, Challenges. 6 Hours System models: Introduction, Architectural models, Fundamental modes. 6 Hours Interprocess communication: Introduction, The API for the internet protocols, External data representation and marshalling, Clint-server communication, Group communication. 8 Hours 

**Distributed objects and remote invocation**: introduction, Communication between distributed objects, Remote procedure call, Events and notifications.

6 Hours

Written by Administrator Sunday, 08 November 2009 05:31 -

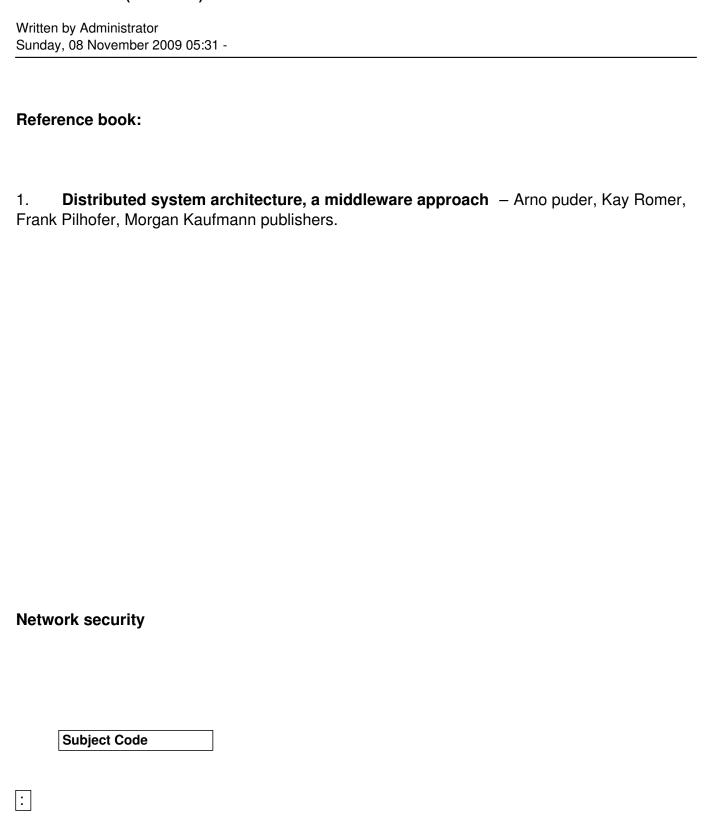
# PART - B

Unit- 5000 00000000000000000000000000000000
<b>Security</b> : Introduction, Overview of security technique cryptographic algorithms, Digital signature, Cryptography progrmatics.
7 Hours
<b>Unit - 6</b> 0000000000000000000000000000000000
<b>Time &amp; Global states</b> : Introduction, Clocks, Events, Process states, Synchronizing physical clocks, Global states, Distributed debugging.
7 Hours

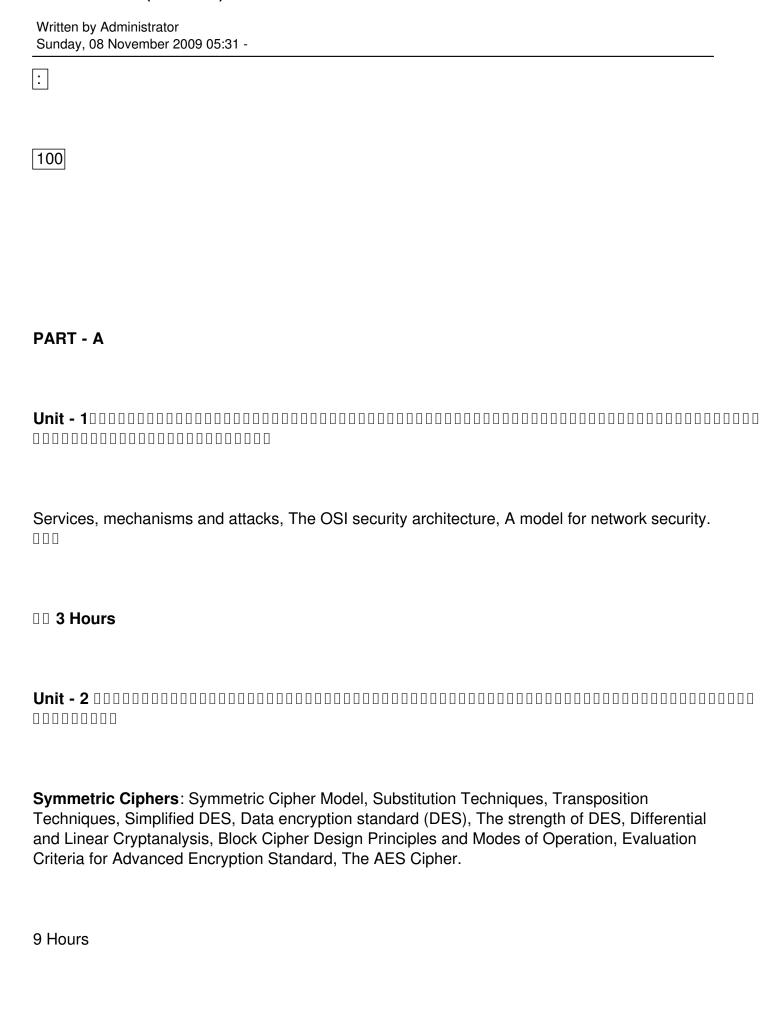
Written by Administrator Sunday, 08 November 2009 05:31 -Coordination and Agreement: Distributed mutual exclusion, Elections, Multicast communication. 7 Hours 00000000000 CORBA case study: Introduction, CORBA RMI, CORBA Services. 5 Hours Text book: 1. Distributes systems, concepts & design - George Coulouris, Jeam Dollimore, Tim Kindberg, "", fourth edition, 2006. Pearson education.

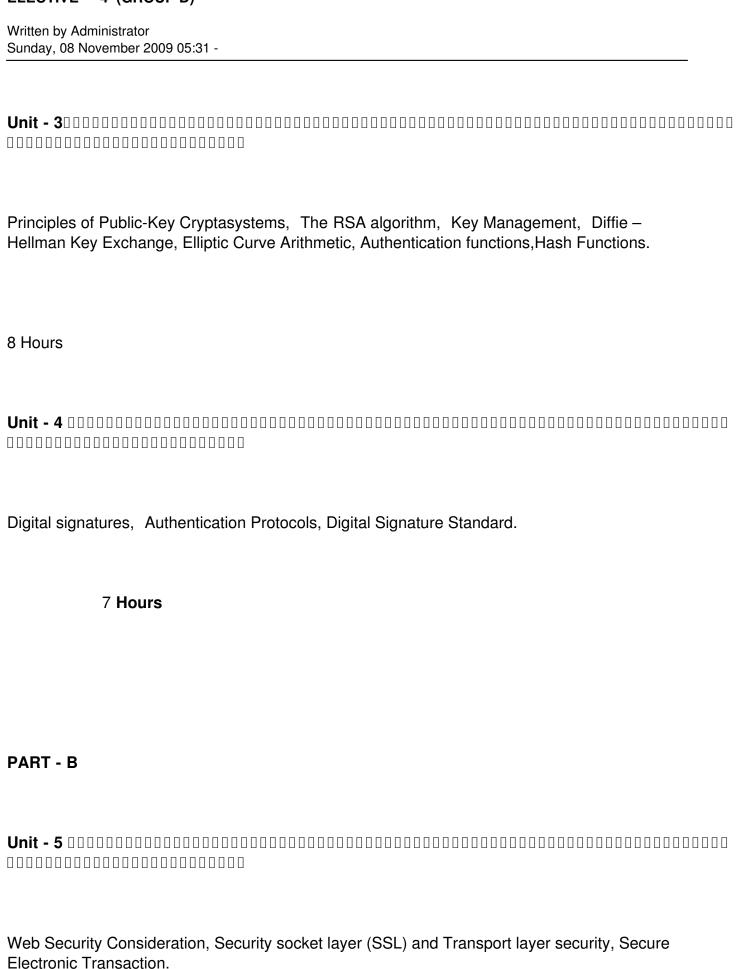
06EC832 IA Marks

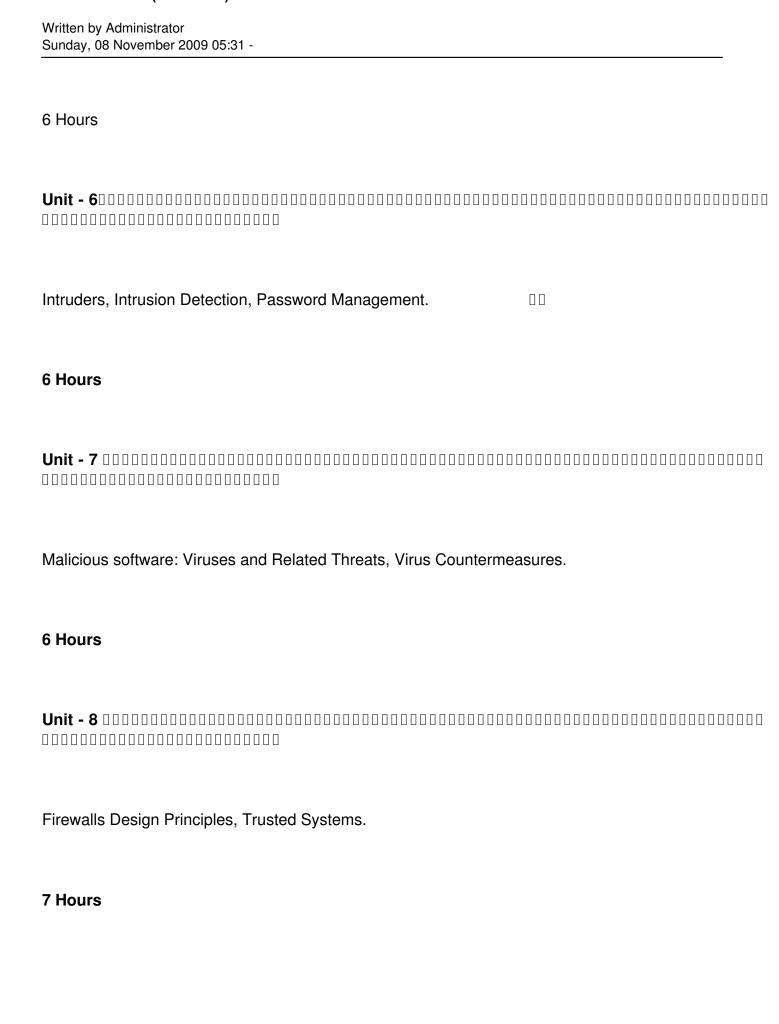
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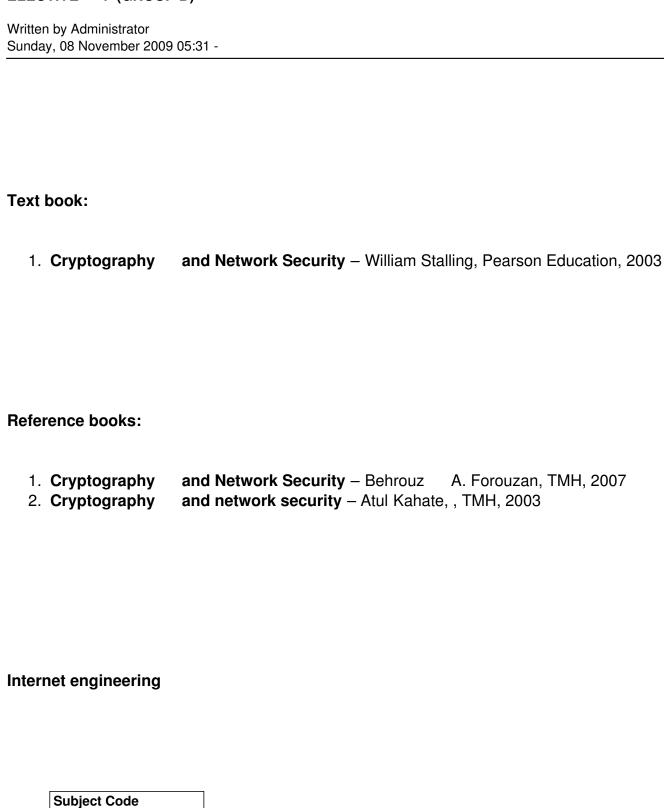


Written by Administrator Sunday, 08 November 2009 05:31 -
25
No. of Lecture Hrs/ Week
04
Exam Hrs
03
Total no. of Lecture Hrs.
52
Exam Marks









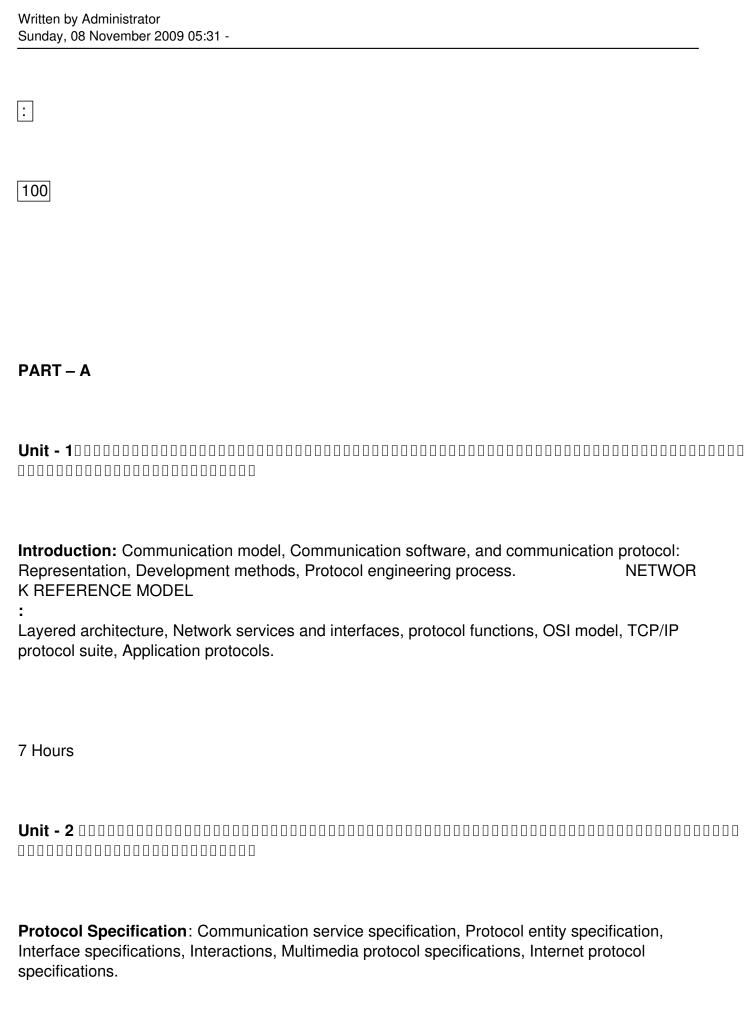
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**IA Marks** 

06EC833

Written by Administrator

Sunday, 08 November 2009 05:31 -
25
No. of Lecture Hrs/ Week
04
Exam Hrs
03
Total no. of Lecture Hrs.
52
Exam Marks



Written by Administrator
Sunday, 08 November 2009 05:31 -

#### 6 Hours

Specification And Description Language (SDL): A protocol specification language: SDL.

6 Hours

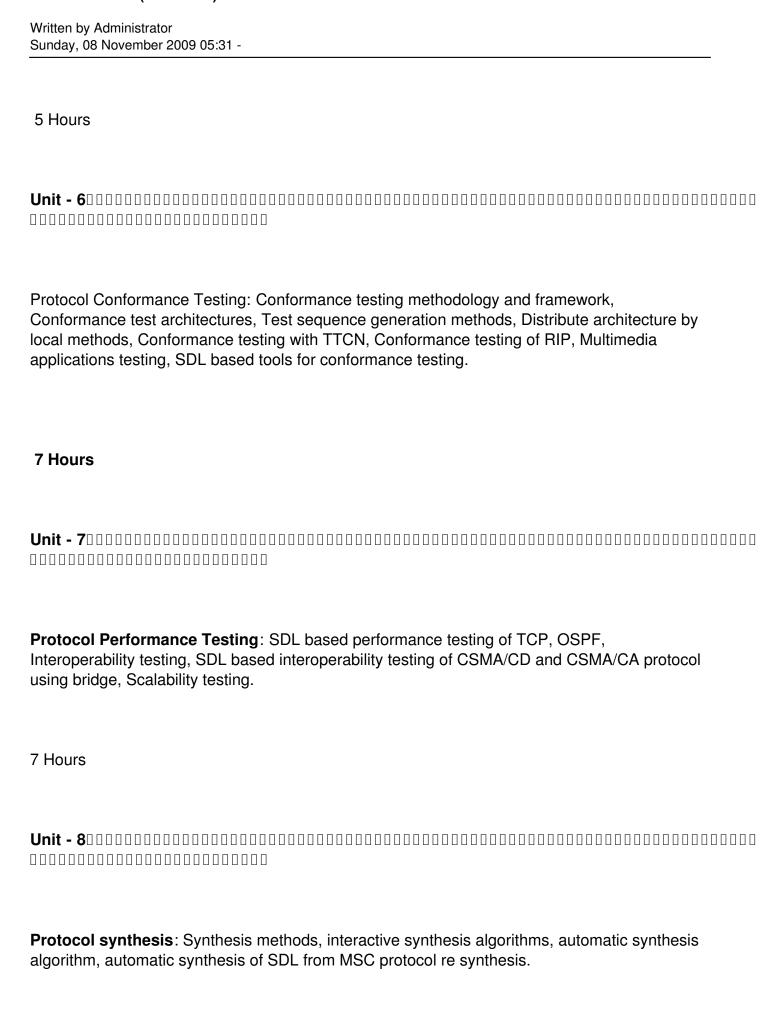
Examples of SDL based protocol specifications, Other protocol specification languages. Protocol Verification And Validation,

Protocol verification, Verification of a protocol using finite state machines.

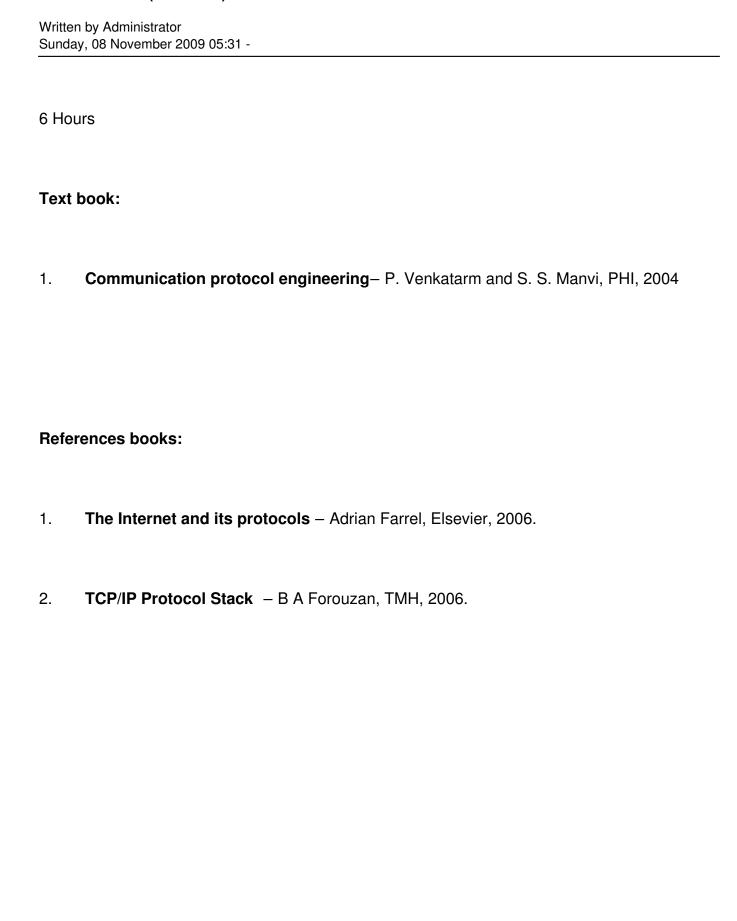
#### 6 Hours

## PART - B

Protocol validation, Protocol design errors, and protocol validation approaches, SDL based protocol verification, SDL based protocol validation.



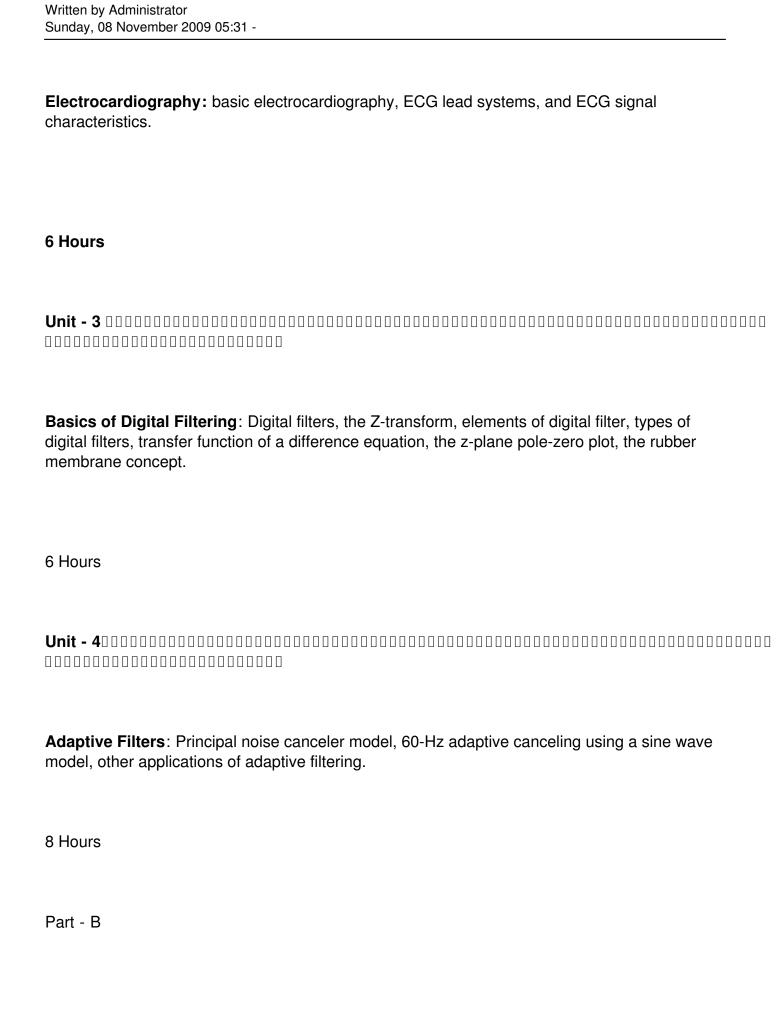
**Biomedical Signal Processing** 



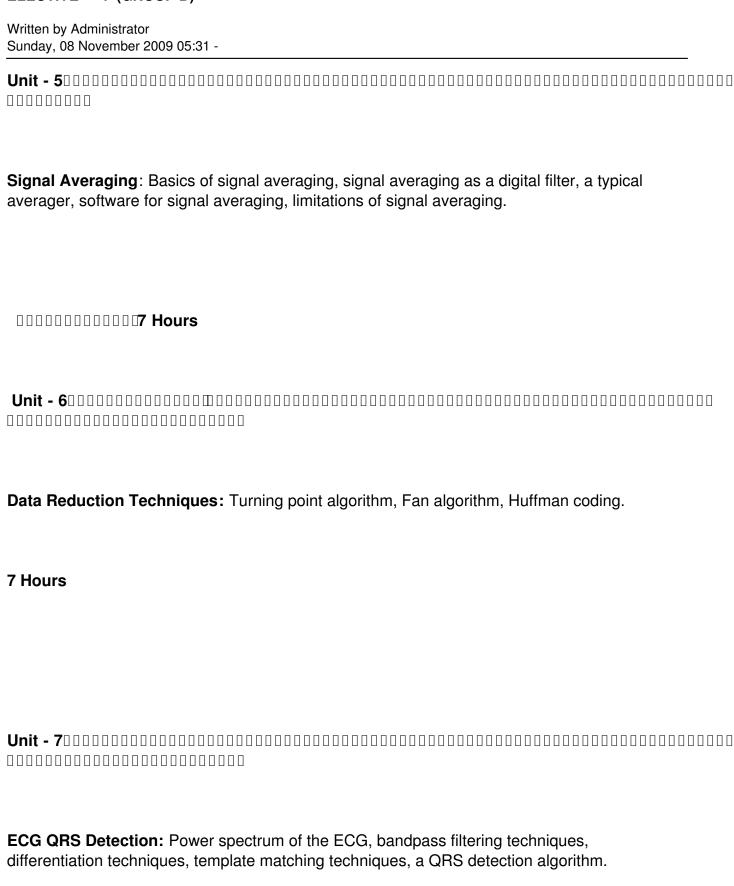
Written by Administrator

Sunday, 08 November 2009 05:31 -Subject Code : 06EC834 IA Marks : 25 No. of Lecture Hrs/ Week  $\Box$ 04 Exam Hrs  $\Box$ 03 Total no. of Lecture Hrs.

Written by Administrator Sunday, 08 November 2009 05:31 -
52
Exam Marks
100
PART - A
Unit - 1 0000000000000000000000000000000000
Introduction to Biomedical Signals: The nature of Biomedical Signals, Examples of
Biomedical Signals, Objectives and difficulties in Biomedical analysis.
6 Hours
Unit - 200000000000000000000000000000000000



6 Hours



1.

Written by Administrator Sunday, 08 November 2009 05:31 -

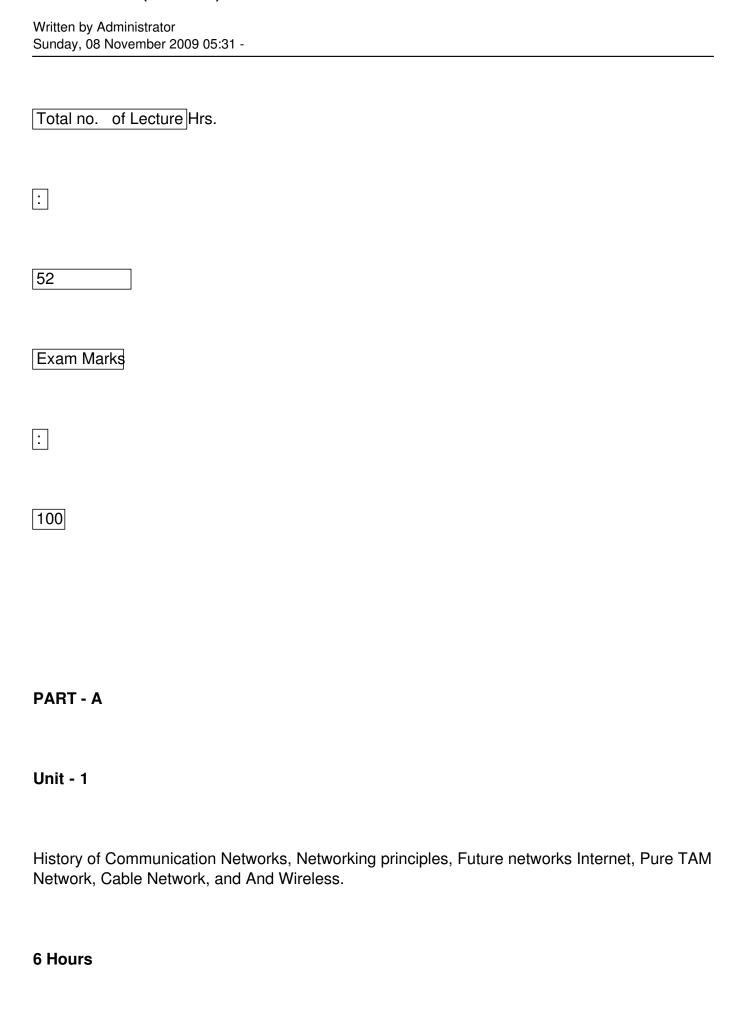
<b>Unit - 8</b> 000 0000000000000000000000000000000
ECG Analysis Systems: ECG interpretation, ST-segment analyzer, portable arrhythmia monitor.  VLSI in Digital signal Processing: Digital signal processors, high performance VLSI signal processing, VLSI applications in medicine, VLSI sensors for biomedical signals, VLSI tools, Choice of custom, ASIC, or off-the-shelf components.
6 Hours
Text Book:
1. <b>Biomedical digital Signal Processing</b> - Willis J. Tompkins, PHI, 2001.
Reference Book:

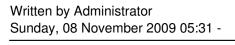
Biomedical Signal Analysis – Rangaraj M. Rangayyan John Wiley & Sons, Inc., 2002.

Written by Administrator Sunday, 08 November 2009 05:31 -

# **High Performance Computer Networks**

nign Perio	rmance Computer	Networks		
Subject	t Code			
: 06EC83	35			
:				
25				
No. of Lect	ure Hrs/ Week			
:				
04				
Exam Hrs				
:				
03				





#### 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.

#### 7 Hours

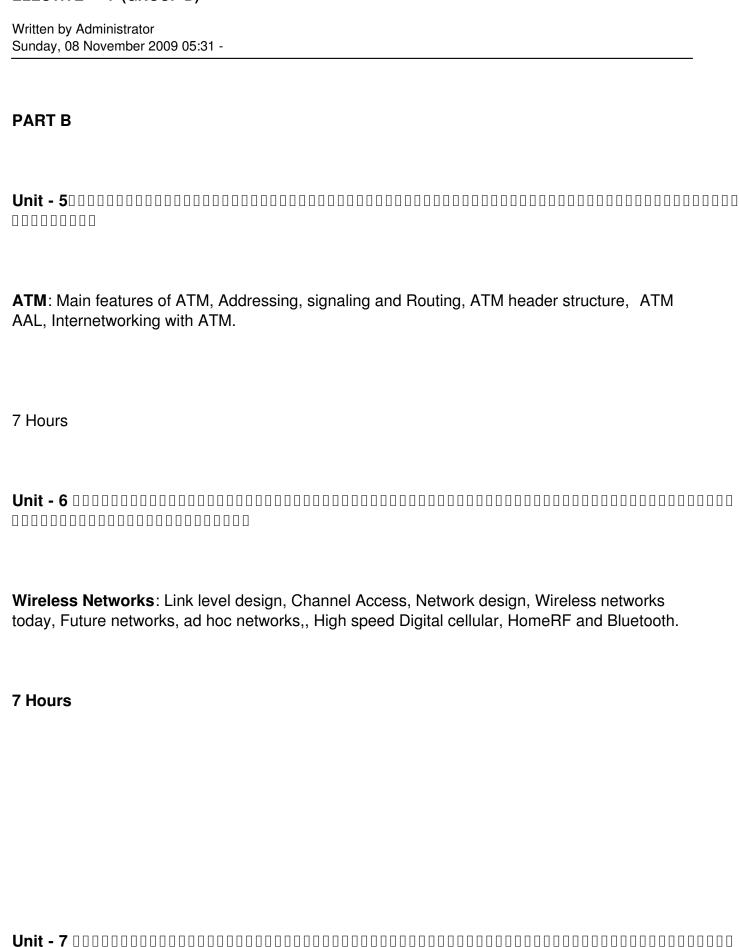
**Internet and TCP/IP Networks**: Multicast IP, Mobile IP, TCP and UDP, Applications, FTP, SMTP. Internet success and limitations, Performance of TCP/IP Networks,

Performance of circuit switched networks.

### 7 Hours

SONET, DWDM, FTH, DSL, Intelligent networks CATV.

6 Hours



Written by Administrator Sunday, 08 November 2009 05:31 -

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

6 Hours

Optical networks: WDM systems, Optical cross connects, Optical LANs, Optical paths and networks.

# 6 Hours

# **TEXT BOOK:**

1. **High performance communication networks** – Warland and Varaiya, Morgan Kauffm an/ Elsivier

2

Edition 2000.

Written by Administrator Sunday, 08 November 2009 05:31 -

# **Reffrence Books:**

1. <b>High-Speed Networks and Internet: Performance and</b> m Stallings , , Pearson Edu., 2001.	Quality of service –	Willia
2. Building High-Speed Networks - Tere Parnell, , TMGH,	2000.	
Fuzzy Logic		
Subject Code		

Written by Administrator

Sunday, 08 November 2009 05:31 -06EC836 IA Marks  $\Box$ 25 No. of Lecture Hrs/ Week : 04 Exam Hrs  $\Box$ 03 Total no. of Lecture Hrs.  $\Box$ 

# **ELECTIVE -4 (GROUP D)** Written by Administrator Sunday, 08 November 2009 05:31 -52 Exam Marks 100 PART - A Introduction: Background, Uncertainty and imprecision, Statistics and random processes,

**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.

#### 7 Hours

Written by Administrator Sunday, 08 November 2009 05:31 -

Classical relations and fuzzy relations: Cartesian product, Crisp relations-cardinality of crisp relations, Operations on crisp relations, Properties of crisp relations, Compositions, Fuzzy relations-cardinality of fuzzy relations, Operations on fuzzy relations, Properties of fuzzy relations, Fuzzy Cartesian product and composition, Non interactive fuzzy sets, Tolerance and equivalence relations-crisp equivalence relation, Crisp tolerance relation, Fuzzy tolerance, Max-min Method, other similarity methods.

#### 7 Hours

**Membership functions**: Features of the membership function, Standards forms and boundaries, fuzzification, Membership value assignments-intuition, Inference, Rank ordering, Angular fuzzy sets. Neural networks, Genetic algorithms, Inductive reasoning.

#### 6 Hours

**Fuzzy-to-crisp conversions and fuzzy arithmetic**: Lambda-cuts for fuzzy sets, Lambda-cuts for fuzzy relations, Defuzzification methods. Extension principle-crisp functions, Mapping and relations, Functions of fuzzy sets-extension principle, Fuzzy transform (Mapping), Practical considerations, and Fuzzy numbers Interval analysis in Arithmetic, Approximate methods of extension-vertex method, DSW algorithm, Restricted DSW algorithm, Comparisons, Fuzzy vectors.

#### 6 Hours

Written by Administrator Sunday, 08 November 2009 05:31 -

PART - B

**Classical logic and fuzzy logic**: Classical predicate logic-tautologies, Contradictions, Equivalence, Exclusive or and exclusive nor, Logical proofs, Deductive Inferences, Fuzzy logic, Approximate reasoning, Fuzzy tautologies, Contradictions, Equivalence and logical proofs, Other forms of the implication operation, Other forms of the composition operation.

#### 6 Hours

**Fuzzy rule-based systems**: Natural language, Linguistic hedges, Rule-based system-canonical rule forms, Decomposition of compound rules, Likelihood and truth qualification, Aggregation of fuzzy rules, Graphical techniques of inference.

## 6 Hours

**Fuzzy decision making**: Fuzzy synthetic evaluation, Fuzzy ordering, Preference and consensus, Multiobjective decision making under fuzzy states and fuzzy actions.

ELECTIVE -4 (GROOP D)
Written by Administrator
Sunday, 08 November 2009 05:31 -
8 Hours
Unit - 800000000000000000000000000000000000
<b>Fuzzy classification</b> : Classification by equivalence relations-crisp relations, Fuzzy relations cluster analysis, Cluster validity, c-Means clustering-hard c-Means (HCM), Fuzzy c-Means (FCM), classification metric, Hardening the fuzzy c-Partition, Similarity relations from clustering.
6 Hours
Text book:

Written by Administrator

