Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

MOBILE COMPUTING

Subject Code
□ 06CS831 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
25
No. of Lecture Hrs./ Week
04
Exam Hours

UNIT - 1

Written by Administrator

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
03
Total No. of Lecture Hrs.
52
Exam Marks
100
PART - A

Mobile Networks.

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

MOBILE DEVICES AND SYSTEMS, ARCHITECTURES: Mobile phones, Digital Music Players, Handheld Pocket Computers, Handheld Devices, Operating Systems, Smart Systems, Limitations of Mobile Devices, Automotive Systems. GSM – Services and System Architectures, Radio Interfaces, Protocols, Localization, Calling, Handover, General Packet Radio Service. 8 Hours **UNIT - 2** WIRELESS MEDIUM ACCESS CONTROL AND CDMA - BASED COMMUNICATION: Mediu m Access Control, Introduction to CDMA - based Systems, OFDM 6 Hours **UNIT - 3** MOBILE IP NETWORK LAYER, MOBILE TRANSPORT LAYER: IP and Mobile IP Network Layers Packet Delivery and Handover Management, Location Management, Registration, Tunneling and Encapsulation, Route Optimization, Dynamic Host Configuration Protocol. Indirect TCP, Snooping TCP, Mobile TCP, Other Methods of TCP – layer Transmission for

Written by Administrator

7 Hours **UNIT - 4** DATABASES: Database Hoarding Techniques, Data Caching, Client - Server Computing and Adaptation, Transactional Models, Query Processing, Data Recovery Process, Issues relating to Quality of Service. 5 Hours PART - B **UNIT - 5** DATA DISSEMINATION AND BROADCASTING SYSTEMS: Communication Asymmetry, Classification of Data - Delivery Mechanisms, Data Dissemination Broadcast Models, Selective Tuning and Indexing Techniques, Digital Audio Broadcasting, Digital video Broadcasting.

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

Written by Administrator

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19 5 Hours **UNIT - 6** DATA SYNCHRONIZATION IN MOBILE COMPUTING SYSTEMS: Synchronization, Synchronization Protocols, SyncML – Synchronization Language for Mobile Computing, Synchronized Multimedia Markup Language (SMIL). 6 Hours **UNIT - 7** MOBILE DEVICES, SERVER AND MANAGEMENT, WIRELESS LAN, MOBILE INTERNET **CONNECTIVITY AND PERSONAL AREA NETWORK:** Mobile agent, Application Server, Gateways, Portals, Service Discovery, Device Management, Mobile File Systems. Wireless LAN (WiFi) Architecture and Protocol Layers, WAP 1.1 and WAP 2.0 Architectures, Bluetooth – enabled Devices Network, Zigbee. 8 Hours

Written by Administrator			
Sunday, 08 November 2009 10:16	- Last Updated Sunday	, 08 November 200	9 10:19

UNIT - 8

MOBILE APPLICATION LANGUAGES – XML, JAVA, J2ME AND JAVACARD, MOBILE OPERATING SYSTEMS: Introduction, XML, JAVA, Java 2 Micro Edition (J2ME), JavaCard. Operating System, PalmOS, Windows CE, Symbian OS, Linux for Mobile Devices.

7 Hours

TEXT BOOK:

1. **Mobile Computing** – Raj Kamal, Oxford University Press, 2007.

REFERENCE BOOKS:

- 1. **Mobile Computing: Technology, Applications and Service Creation,** Asoke K. Talkukder, Roopa R Yavaga, Tata McGraw Hill, 2005.
- 2. Mobile Computing Principles: Designing and with UML and XML

 Cambridge University press, 2006.

 Developing Mobile Applications, Reza B'Far, 5th Edition,
 - 3. **Principles** of Mobile Computing Uwe Hansmann, Lothat Merk, Martin S Nicklous

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

and Thomas Stober, 2 International Edition, 2003. nd Edition, Springer

4. **Mobile Communication** – Schiller, Pearson Education, 2004.

WEB 2.0 AND RICH INTERNET APPLICATIONS

Subject	Code	

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06CS832	
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IA Marks	

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
25
No. of Lecture Hrs./ Week
04
Exam Hours
03
Total No. of Lecture Hrs.
52
Exam Marks

UNIT - 2

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
100
PART - A
UNIT - 1
INTRODUCTION, WEB SERVICES: What is Web 2.0?, Folksonomies and Web 2.0, Software as a Service (SaaS), Data and Web 2.0, Convergence, Iterative development, Rich User experience, Multiple Delivery Channels, Social Networking. Web Services: SOAP, RPC Style SOAP, Document style SOAP, WSDL, REST services, JSON format, What is JSON?, Array literals, Object literals, Mixing literals, JSON Syntax, JSON Encoding and Decoding, JSON versus XML.
7 Hours

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

BUILDING RICH INTERNET APPLICATIONS WITH AJAX-1: Building Rich Internet Applications with AJAX: Limitations of Classic Web application model, AJAX principles, Technologies behind AJAX, Examples of usage of AJAX, Dynamic web applications through Hidden frames for both GET and POST methods.

7 Hours

UNIT - 3

BUILDING RICH INTERNET APPLICATIONS WITH AJAX-2: Frames, Asynchronous communication and AJAX application model,

XMLHTTP Object – properties and methods, handling different browser implementations of XMLHTTP, The same origin policy, Cache control, AJAX Patterns (Only algorithms – examples not required): Predictive fetch pattern, Submission throttling pattern, Periodic refresh, Multi stage download, Fall back patterns.

6 Hours

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
UNIT - 4
ONIT - 4
BUILDING RICH INTERNET APPLICATIONS WITH FLEX - 1: lash player, Flex framework, MXML and Actionscript, Working with Data services, Understanding differences between HTML and Flex applications, Understanding how Flex applications work, Understanding Flex and Flash authoring, MXML language, a simple example.
6 Hours
o nouis
PART - B
UNIT - 5
BUILDING RICH INTERNET APPLICATIONS WITH FLEX - 2: Using Actionscript, MXML and Actionscript correlations. Understanding Actionscript 3.0 language syntax: Language overview, Objects and Classes, Packages and namespaces, Variables & scope of variables, case sensitivity and general syntax rules, Operators, Conditional, Looping, Functions, Nested functions, Functions as Objects, Function scope, OO Programming in Actionscript: Classes,

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Interfaces, Inheritance, Working with String objects, Working with Arrays, Error handling in Actionscript: Try/Catch, Working with XML

6 Hours

UNIT - 6

BUILDING RICH INTERNET APPLICATIONS WITH FLEX - 3: Framework fundamentals, Understanding application life cycle, Differentiating between Flash player and Framework, Bootstrapping Flex applications, Loading one flex application in to another, Understanding application domains, Understanding the preloader. Managing layout, Flex layout overview, Working with children, Container types, Layout rules, Padding, Borders and gaps, Nesting containers, Making fluid interfaces.

6 Hours

UNIT - 7

BUILDING RICH INTERNET APPLICATIONS WITH FLEX – 4: Working with UI components: Understanding UI Components, Creating component instances, Common UI Component properties, Handling events, Button, Value selectors, Text components, List based controls, Data models and Model View Controller, Creating collection objects, Setting the data provider, Using Data grids, Using Tree controls, Working with selected values and items, Pop up controls, Navigators, Control bars Working with data: Using data models, Using XML, Using Actionscript classes, Data Binding.

3.

Mashups – Francis Shanahan, Wrox, 2007.

Elective IV
Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
6 Hours
UNIT - 8
BUILDING ADVANCED WEB 2.0 APPLICATIONS: Definition of mash up applications, Mash up Techniques, Building a simple mash up application with AJAX, Remote data communication strategies for data communication, Simple HTTPServices, URLLoader in Flex, Web Services in Flex, Examples: Building an RSS reader with AJAX, Building an RSS reader with Flex.
8 Hours
TEXT BOOKS:
1. Professional AJAX – Nicholas C Zakas et al, Wrox publications, 2006.
2. Programming Flex 2 – Chafic Kazoun, O'Reilly publications, 2007.

REFERENCE BOOKS:

- 1. **Ajax: The Complete Reference** Thomas A. Powel, McGraw Hill, 2008.
- 2. **Unleashing Web 2.0: From Concepts to Creativity** Gottfried Vossen, Stephan Hagemann, Elsevier, 2007.
- 3. **Essential Actionscript 3.0** Colin Moock, O'Reilly Publications, 2007.
- 4. **Ajax Bible** Steven Holzner, Wiley India, 2007.
- 5. **A Web 2.0 Primer Pragmatic Ajax** Justin Gehtland et al, SPD Publications, 2006.
- 6. **Professional Web 2.0 Programming** Eric Van derVlist et al, Wiley India, 2007.

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

STORAGE AREA NETWORKS

Subject Code		
06CS833		
25		
No. of Lecture Hrs./ Week		
04		
Exam Hours		

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
03
Total No. of Lecture Hrs.
52
Exam Marks
100
PART- A
UNIT - 1

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

INTRODUCTION: Server Centric IT Architecture and its Limitations; Storage – Centric IT Architecture and its advantages; Case study: Replacing a server with Storage Networks; The Data Storage and Data Access problem; The Battle for size and access.

6 Hours
UNIT - 2
INTELLIGENT DISK SUBSYSTEMS - 1: Architecture of Intelligent Disk Subsystems; Hard disks and Internal I/O Channels, JBOD, Storage virtualization using RAID and different RAID levels;
6 Hours
UNIT - 3
INTELLIGENT DISK SUBSYSTEMS – 1, I/O TECHNIQUES - 1: Caching: Acceleration of Hard Disk Access; Intelligent disk subsystems; Availability of disk subsystems. The Physical I/O path from the CPU to the Storage System; SCSI.
7 Hours

UNIT - 6

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19 **UNIT - 4** I/O TECHNIQUES - 2, NETWORK ATTACHED STORAGE: Fibre Channel Protocol Stack; Fibre Channel SAN; IP Storage. The NAS Architecture, The NAS hardware Architecture, The NAS Software Architecture, Network connectivity, NAS as a storage system. 7 Hours PART-B **UNIT - 5** FILE SYSTEM AND NAS: Local File Systems; Network file Systems and file servers; Shared Disk file systems; Comparison of fibre Channel and NAS. 6 Hours

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STORAGE VIRTUALIZATION: Definition of Storage virtualization; Implementation Considerations; Storage virtualization on Block or file level; Storage virtualization on various levels of the storage Network; Symmetric and Asymmetric storage virtualization in the Network

	by Administrator y, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
TEXT	BOOKS:
1. Wiley	Storage Networks Explained – Ulf Troppens, Rainer Erkens and Wolfgang Muller, John & Sons, 2003.
2. 2003.	Storage Networks: The Complete Reference – Robert Spalding, Tata McGraw Hill,
REFE	RENCE BOOKS:
1. Imple	Storage Area Network Essentials: A Complete Guide to understanding and menting SANs — Richard Barker and Paul Massiglia, John Wiley India, 2002.
2.	Storage Networking Fundamentals Marc Farley, Cisco Press, 2005.

04

Elective IV
Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
NETWORK MANAGEMENT SYSTEMS
Subject Code
06CS834
25
No. of Lecture Hrs./ Week

PART - A

Written by Administrator

Exam Hours		
03		
Total No. of Lecture Hrs.		
52		
Exam Marks		
100		

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

UNIT - 1

INTRODUCTION: Analogy of Telephone Network Management, Data and Telecommunication Network

Distributed computing Environments, TCP/IP-Based Networks: The Internet and Intranets, Communications Protocols and Standards- Communication Architectures, Protocol Layers and Services; Case Histories of Networking and Management – The Importance of topology, Filtering Does Not Reduce Load on Node, Some Common Network Problems; Challenges of Information Technology Managers, Network Management: Goals, Organization, and Functions- Goal of Network Management, Network Provisioning, Network Operations and the NOC, Network Installation and Maintenance; Network and System Management, Network Management System platform, Current Status and Future of Network Management.

7 Hours

UNIT - 2000

BASIC FOUNDATIONS: STANDARDS, MODELS, AND LANGUAGE:

Network Management Standards, Network Management Model, Organization Model, Information Model – Management Information Trees, Managed Object Perspectives, Communication Model; ASN.1- Terminology, Symbols, and Conventions, Objects and Data Types, Object Names, An Example of ASN.1 from ISO 8824; Encoding Structure; Macros, Functional Model. 6 Hours

UNIT - 3 0 0

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

SNMPV1 NETWORK MANAGEMENT - 1: Managed Network: The History of SNMP Management, Internet Organizations and standards, Internet Documents, The SNMP Model, The Organization Model, System Overview.

6 Hours

UNIT - 4

SNMPV1 NETWORK MANAGEMENT – 2: The Information Model – Introduction, The Structure of Management Information, Managed Objects, Management Information Base. The SNMP Communication Model – The SNMP Architecture, Administrative Model, SNMP Specifications, SNMP Operations, SNMP MIB Group, Functional Model.

0000000000000**7 Hours**

PART - B

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

UNIT - 5

SNMP MANAGEMENT – RMON: Remote Monitoring, RMON SMI and MIB, RMONI1- RMONI Textual Conventions, RMON1 Groups and Functions, Relationship Between Control and Data Tables, RMON1 Common and Ethernet Groups, RMON Token Ring Extension Groups, RMON2 – The RMON2 Management Information Base, RMON2 Conformance Specifications; ATM Remote Monitoring,

A Case Study of Internet Traffic Using RMON.

6 Hours

UNIT - 6

BROADBAND NETWORK MANAGEMENT: ATM NETWORKS: Broadband Networks and Services, ATM Technology –

Virtual Path-Virtual Circuit, TM Packet Size, Integrated Service, SONET, ATM LAN Emulation, Virtual LAN; ATM Network Management – The ATM Network Reference Model, The Integrated Local Management Interface, The ATM Management Information Base, The Role of SNMP and ILMI in ATM Management, M1 Interface: Management of ATM Network Element, M2 Interface: Management of Private Networks, M3 Interface: Customer Network Management of Public Networks, M4 Interface: Public Network Management, Management of LAN Emulation, ATM Digital Exchange Interface Management.

6 Hours

UNIT - 7

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

BROADBAND NETWORK MANAGEMENT: Broadband Access Networks and Technologies – Broadband Access Networks, roadband Access Technology; HFCT Technology – The Broadband LAN, The Cable Modem, The Cable Modem Termination System,

The HFC Plant, The RF Spectrum for Cable Modem; Data Over Cable Reference Architecture; HFC Management – Cable Modem and CMTS Management, HFC Link Management, RF Spectrum Management, DSL Technology; Asymmetric Digital Subscriber Line Technology – Role of the ADSL Access Network in an Overall Network, ADSL Architecture, ADSL Channeling Schemes, ADSL Encoding Schemes; ADSL Management – ADSL Network Management Elements, ADSL Configuration Management, ADSL Fault Management, ADSL Performance Management, SNMP-Based ADSL Line MIB, MIB Integration with Interfaces Groups in MIB-2, ADSL Configuration Profiles.

6 Hours

Network Management Applications: Configuration Management-Network Provisioning, Inventory Management, Network Topology, Fault Management- Fault Detection,

Fault Location and Isolation Techniques, Performance
Management – Performance Metrics, Data Monitoring, Problem
Isolation, Performance Statistics; Event Correlation Techniques –
Rule-Based Reasoning, Model-Based Reasoning, Case-Based
Reasoning, Codebook correlation Model, State Transition Graph
Model, Finite State Machine Model, Security Management –
Policies and Procedures, Security Breaches and the Resources
Needed to Prevent Them, Firewalls, Cryptography, Authentication
and Authorization, Client/Server Authentication Systems,
Messages Transfer Security, Protection of Networks from Virus
Attacks, Accounting Management, Report Management,
Policy-Based Management, Service Level Management.

8 Hours

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
TEXT BOOK:
1. Network Management: Principles and Practice – Mani Subramanian, Pearson Education, 2003.
REFERENCE BOOK:
 Network Management Concepts and Practices – J. Richard Burke, A Hands-On Approach, PHI, 2008.

INFORMATION AND NETWORK SECURITY

Written by Administrator

Subject Code		
06CS835		
25		
No. of Lecture Hrs./ Week		
:		
04		
Exam Hours		
03		

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

Written by Administrator

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
Total No. of Lecture Hrs.
52
Exam Marks
100
PART - A
UNIT - 1
PLANNING FOR SECURITY: Introduction; Information Security Policy, Standards, and Practices; The Information Security Blue Print; Contingency plan and a model for contingency

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
plan.
6 Hours
UNIT - 2
ONIT - Z
SECURITY TECHNOLOGY-1: Introduction; Physical design; Firewalls; Protecting Remote Connections.
6 Hours
UNIT - 3
SECURITY TECHNOLOGY - 2: Introduction; Intrusion Detection Systems (IDS); Honey Pots, Honey Nets, and Padded cell systems; Scanning and Analysis Tools.
6 Hours

UNIT - 6

Written by Administrator

UNIT - 4 CRYPTOGRAPHY: Introduction; A short History of Cryptography; Principles of Cryptography; Cryptography Tools; Attacks on Cryptosystems. 8 Hours PART - B **UNIT - 5** INTRODUCTION TO NETWORK SECURITY, AUTHENTICATION APPLICATIONS: Attacks, services, and Mechanisms; Security Attacks; Security Services; A model for Internetwork Security; Internet Standards and RFCs. Kerberos, X.509 Directory Authentication Service. 8 Hours

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

Written by Administrator

ELECTRONIC MAIL SECURITY: Pretty Good Privacy (PGP); S/MIME. 6 Hours **UNIT - 7** Encapsulating Security Payload; Combining Security Associations; Key Management. 6 Hours **UNIT - 8** WEB SECURITY: Web security requirements; Secure Socket layer (SSL) and Transport layer Security (TLS); Secure Electronic Transaction (SET). 6 Hours **TEXT BOOKS:**

Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

1. Principles of Information Security – Mic Edition, Thomson, 2005.	hael E.	Whitman and Herbert J. Mattord, 2 nd
2. Applications and Standards – Network Pearson Education, 2000.	Securi	ty Essentials, William Stallings,

REFERENCE BOOK:

1. Cryptography and Network Security - Behrouz A. Forouzan, Tata McGraw-Hill, 2007.

Subjec	t Code		
7			
6CS836			

IA Marks

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
25
No. of Lecture Hrs./ Week
Exam Hours
03
Total No. of Lookuwa Illina
Total No. of Lecture Hrs.
52
Exam Marks

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
100
PART - A
UNIT - 1
INTRODUCTION, 8051 ASSEMBLY LANGUAGE PROGRAMMING – 1: Microcontrollers and embedded processors; Overview of the 8051 family.
8051 Assembly Language Programming (ALP) -1: Inside the 8051; Introduction to 8051 ALP; Assembling and running an 8051 program; The PC and ROM space in 8051; Data types, directives, flag bits, PSW register, register banks, and the stack.
7 Hours
UNIT - 2

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

ALP – 2: Jump and loop instructions; Call instructions; Time delay for various 8051 family members; I/O programming; I/O bit manipulation programming. Immediate and register addressing modes; Accessing memory using various addressing modes.

6 Hours

UNIT - 3

ALP – 3, PROGRAMMING IN C: Bit addresses for I/O and RAM; Extra 128 bytes of on-chip RAM in 8052. Arithmetic instructions; Signed numbers and arithmetic operations; Logic and compare instructions; rotate instruction and serialization; BCD, ASCII, and other application programs. rogramming in C: Data types and time delays; I/O programming; Logic operations; Data conversion programs; Accessing code ROM space; Data serialization.

7 Hours

UNIT - 4

PIN DESCRIPTION, TIMER PROGRAMMING: Pin description of 8051; Intel Hex file; Programming the 8051 timers; Counter programming; rogramming Timers 0 and 1 in C.

6 Hours

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
PART - B
UNIT - 5
SERIAL PORT PROGRAMMING, INTERRUPT PROGRAMMING: basics of serial communications; 8051 connections to RS232; Serial port programming in assembly and in C. 8051 interrupts; Programming timer interrupts; Programming external hardware interrupts; Programming the serial communications interrupt; Interrupt priority in 8051 / 8052; Interrupt programming in C.
6 Hours
UNIT - 6
INTERFACING LCD, KEYBOARD, ADC, DAC AND SENSORS: LCE interfacing; Keyboard interfacing; Parallel and serial ADC; DAC interfacing; Sensor interfacing and signal conditioning.
7 Hours

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Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19
UNIT - 7
INTERFACING TO EXTERNAL MEMORY, INTERFACING WITH 8255: Memory address decoding; Interfacing 8031 / 8051 with external ROM; 8051 data memory space; Accessing external data memory in C. Interfacing with 8255; Programming 8255 in C.
7.11
7 Hours
UNIT - 8
DS12887 RTC INTERFACING AND PROGRAMMING, APPLICATIONS: DS12887 RTC interfacing; DS12887 RTC programming in C; Alarm, SQW, and IRQ features of DS12886. Relays and opto-isolators; Stepper motor interfacing; DC motor interfacing and PWM.
6 Hours
TEXT BOOK:

The 8051 Microcontroller and Embedded Systems using Assembly and C - Muham

38 / 39

Written by Administrator Sunday, 08 November 2009 10:16 - Last Updated Sunday, 08 November 2009 10:19

mad Ali Mazidi, Janice Gillispie Mazidi, Rolin D. McKinlay, 2

Edition, Pearson Education, 2008.

REFERENCE BOOKS:

- 1. **Microcontrollers** Architecture, Programming, Interfacing and System Design Raj Kamal, Pearson Education, 2007.
- 2. **Microcontrollers** and **Applications** Dr. Ramani Kalpathi, Ganesh Raja, 1st Revised Edition, Sanguine Technical Publishers, 2007.