TENTATIVE LESSON PLAN: MC1631

Course Title : DATABASE MANAGEMENT SYSTEM		
Section : MCA	Date : 17-11-2019	
Revision No : 00	Prepared By : **K.RAMARAO**	Approved By : HOD
Tools: Black board, PPTs		

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-1			
CO1:Describe a relational database and object-oriented database			
TB: Fundamentals of Database Systems, Elmasri Navrate Pearson Education			
1.	Introduction to DBMS	9/7/2019	
2.	Introduction to SQL	14/7/2019	
3.	Database System, characteristics(Database vs File System)	16/7/2019	
4.	Database Users	17/7/2019	
5.	Advantages of DB Systems	17/7/2019	
6.	Tutorial class	17/7/2019	Lecture interspersed with discussions
7.	Database applications	20/7/2019	
8.	Brief introduction of different Data Models	21/7/2019	
9.	Concepts of schema, Instance and data independence	22/7/2019	
10.	Three tier schema architecture for data independence	22/7/2019	
11.	Database system structure	22/7/2019	
12.	Tutorial class	24/7/2019	
13.	Database system environment	27/7/2019	
14.	Centralized and client server architecture	28/7/2019	
15.	Tutorial class	29/7/2019	
16.	Introduction to relational model	29/7/2019	
17.	Concepts of domain,attribute,tuple,relation	30/7/2019	
18.	Importance of null values	1/8/2019	
19.	Constraints	4/8/2019	
20.	Tutorial class	5/8/2019	
UNIT-2			
CO2: Create, maintain and manipulate a relational database using SQL			
TB: Fundamentals of Database Systems, Elmasri Navrate Pearson Education			
21.	Introduction to ER model	13/8/2019	
22.	Representation of entities, attributes ,entity set	14/8/2019	
23.	Relationship, Relationship set	17/8/2019	
24.	Constraints, sub classes, super class, Inheritance	18/8/2019	
25.	Specializations, generalization using ER diagrams	19/8/2019	Lecture interspersed with discussions
26.	Tutorial class	21/8/2019	
27.	Creating tables with relationship	22/8/2019	
28.	Implementation of key and integrity constraints	25/8/2019	
29.	Nested queries, sub queries	26/8/2019	

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DEPARTMENT OF MASTER OF COMPUER APPLICATIONS

30.	Grouping,aggregation,ordering	27/8/2019	
31.	Implementation of different types of joins	28/8/2019	
32.	View(updatable and non-updatable)	29/8/2019	
33.	Relational set operations	4/9/2019	
34.	Tutorial class	4/9/2019	

UNIT3
CO 3 Describe ER model and normalization for database design.
TB: Fundamentals of Database Systems, Elmasri Navrate Pearson Education

35.	Purpose of Normalization or schema refinement	6/9/2019	
36.	Concept of functional dependency	7/9/2019	
37.	1NF,2NF	17/9/2019	
38.	3NF	18/9/2019	Lecture interspersed with discussions
39.	Concept of surrogate key	19/9/2019	
40.	Tutorial class	20/9/2019	
41.	BCNF	23/9/2019	
42.	Lossless join decomposition	25/9/2019	
43.	Dependency preserving decomposition	27/9/2019	
44.	4NF	28/9/2019	
45.	Tutorial class	10/10/2019	

UNIT-4
CO4: Examine issues in data storage and query processing and can formulate appropriate solutions
TB: Fundamentals of Database Systems, Elmasri Navrate Pearson Education

No. of Periods	TOPIC	DATE	Mode of Delivery
46.	Transaction, Properties of Transaction log	10/10/19	
47.	Transaction management with SQL using commit rollback and save point	11/10/19	
48.	Concurrency control for lost updates	13/10/19	Lecture interspersed with discussions
49.	Uncommitted data , inconsistent retirievals and the scheduler	15/10/19	
50.	Tutorial class		

51.	Concurrency control with locking methods	17/10/19	
52.	Lock granularity ,lock types	17/10/19	
53.	Two phase locking for ensuring serializability	20/10/19	
54.	Deadlocks	18/10/19	
55.	Concurrency control with timestamp ordering	14/10/19	
56.	Wait/die/and Wound/wait schemes	19/10/19	
57.	Database Recovery Management	21/10/19	
58.	SQL Contructs	22/10/19	
59.	Basic PL/SQL procedures	23/10/19	
60.	Functions and Triggers	24/10/19	
61.	Tutorial class	25/10/19	

UNIT-5 DATABASE FILE ORGANISATION

CO 5: Understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage

TB: Fundamentals of Database Systems, Elmasri Navrate Pearson Education

62.	File organization on disc	26/10/19	
63.	Heap files amd sorted files	27/10/19	
64.	Hashing	27/10/19	
65.	Single and multi-level indexes	28/10/19	Lecture interspersed with discussions
66.	Dynamic multilevel indexing using B+ tree	28/10/19	
67.	Dynamic multilevel indexing using B- tree	29/10/19	
68.	Index on multiple keys	30/10/19	
69.	Tutorial class	1/11/19	

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TENTATIVE LESSON PLAN: MC1632

Course Title : COMPUTER NETWORKS			
Section : MCA	Date : 06-07-2019	MCA-III SEM	
Revision No : 00	Prepared By : A. KALYAN KUMAR	Approved By : HOD	

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-1: HARDWARE REFERENCE MODEL **CO-1:** Understand OSI and TCP/IP models **Text Book:** Computer Networks and rew, Tanenbaum, 4/e, Pearson			
1.	Transmission Media	08-07-2019	Lecture interspersed with discussions
2.	Narrow Band ISDN & Broad Band ISDN	09-07-2019 10-07-2019	
3.	ATM	11-07-2019	
4.	**The Data Link Layer:** Deisgn Issues	12-07-2019	
5.	Error Detection And Correction	13-07-2019 15-07-2019 16-07-2019	
6.	Elementary Data Link Protocols	17-07-2019 18-07-2019	
7.	Sliding Window Protocols: Data Link Layer In HDLC, Internet And ATM.	19-07-2019 20-07-2019 22-07-2019	
UNIT-2: CHANNEL ALLOCATION METHODS, NETWORK LAYER ROUTING ALGORITHMS **CO-2:** Analyze MAC layer protocols and LAN technologies **Text Book:** Computer Networks and rew, Tanenbaum, 4/e, Pearson			
8.	TDM, FDM, ALOHA	23-07-2019 24-07-2019 25-07-2019	Lecture interspersed with discussions
9.	Carrier Sense Multiple Access Protocols	26-07-2019	
10.	Collision Free Protocols-IEEE Standard BO2 For LANS-Ethernet	27-07-2019 29-07-2019	
11.	Token Bus	30-07-2019	
12.	Token Ring	31-07-2019	
13.	Bridges	01-08-2019 02-08-2019	
14.	**Network Layer Routing Algorithms:**Shortest Path	03-08-2019 05-08-2019	
15.	Flooding, Flow Based Distance Vector	06-08-2019 07-08-2019	
16.	Link State, Hierarchical, Broadcast Routing	08-08-2019 09-08-2019	
17.	Congestion Control Algorithms-General Principles Of Congestion Control	10-08-2019	
18.	Congestion Prevention Policies	12-08-2019	
19.	CHOK Packets And Load Shreddings	13-08-2019	
UNIT –3: INTERNET WORKING **CO3:** Design applications using internet protocols **Text Book:** Computer Networks and rew, Tanenbaum, 4/e, Pearson			
20.	Tunneling	14-08-2019	

21.	Internetworking	15-08-2019 16-08-2019	Lecture interspersed with discussions
22.	Fragmentation	17-08-2019 19-08-2019	
23.	Network Layer In The Internet-IP Protocols, IP Address, Subnets	20-08-2019 21-08-2019	
24.	Internet Control Protocols	22-08-2019 23-08-2019	
25.	OSPF, BDP	24-08-2019 26-08-2019 27-08-2019	
26.	Internet Multi Tasking	28-08-2019 29-08-2019	
27.	Mobile IP	30-08-2019	
28.	Network Layer In The ATM Networks-Cell Formats	31-08-2019	
29.	Connection Setup	02-09-2019	
30.	Routing And Switching	03-09-2019 04-09-2019	
31.	Service Categories And Quality Of Service	05-09-2019 06-09-2019	
32.	ATM LANS	07-09-2019	

UNIT – 4: THE TRANSPORT LAYER
CO4: Understand routing and congestion control algorithms
CO5: Understand how internet works
Text Book: Computer Networks and rew, Tanenbaum, 4/e, Pearson

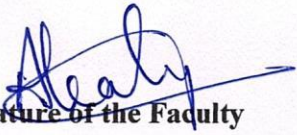| 33.	The Elements Of Transport Protocols- Addressing	16-09-2019	
34.	Establishing A Connection	17-09-2019	
35.	Releasing Connection	18-09-2019	
36.	Flow Control And Buffering And Crash Recovery	19-09-2019 20-09-2019	
37.	End To End Protocols: UDP	21-09-2019 23-09-2019	Lecture interspersed with discussions
38.	Reliable Byte Stream (TCP) End To End Format	24-09-2019 25-09-2019	
39.	Connection Establishment And Termination	26-09-2019	
40.	Sliding Window Revisited	27-09-2019 28-09-2019	
41.	Adaptive Re-Transmission	30-09-2019 01-10-2019	
42.	TCP Extension	02-10-2019	
43.	Remote Procedure CALL-BLAST, CHAN, SELECT, DCE	03-10-2019 04-10-2019	

UNIT – 5: APPLICATION LAYER

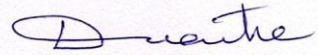**CO6:** Understand how the HTTP and SMTP Protocols work

TB: Computer Networks and rew, Tanenbaum, 4/e, Pearson
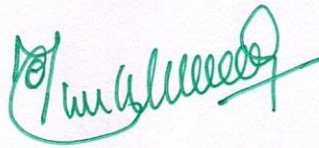
44.	Network Security: Cryptographic Algorithms: DES, RSA	05-10-2019 07-10-2019	
45.	Security Mechanisms: Authentication Protocols, Firewalls	08-10-2019 09-10-2019	
46.	Name Service (DNS) Domains Hierarchy	10-10-2019	Lecture interspersed
47.	Name Servers	11-10-2019	

| 48. | Traditional Applications: SMTP, MIME | 12-10-2019
13-10-2019 | with
discussions |
| 49. | World Wide Web: Http, Network Management, SNMP | 14-10-2019
15-10-2019 | |

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TENTATIVE LESSON PLAN: MC1633

Course Title : UNIX PROGRAMMING			
Section : MCA	Date : 06-07-2019	MCA-III SEM	
Revision No : 00	Prepared By : K. RADHA	Approved By : HOD	

Tools: Black board, PPTs

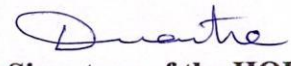| No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-1: Review of Unix Utilities and Shell Programming **CO-1:** File handling utilities **Text Book:** Unix and shell Programming, N B Venkateswarlu, Reem			
1.	security by file permissions, process utilities, disk utilities	08-07-2019	Lecture interspersed with discussions
2.	networking commands, backup utilities	09-07-2019 10-07-2019	
3.	text processing utilities	11-07-2019	
4.	Working with the Bourne shell	12-07-2019	
5.	What is a shell, shell responsibilities	13-07-2019 15-07-2019 16-07-2019	
6.	pipes and input redirection	17-07-2019 18-07-2019	
7.	the shell as a programming language, shell meta characters, shell variables	19-07-2019 20-07-2019 22-07-2019	
UNIT-2: Unix Files: Unix file structure, directories **CO-2:** files and devices, System calls, library functions **Text Book:** Unix and shell Programming, N B Venkateswarlu, Reem			
8.	low level file access	23-07-2019 24-07-2019 25-07-2019	Lecture interspersed with discussions
9.	usage of open, create, read, write, close	26-07-2019	
10.	The standard I/O (fopen, fclose, fflush, fseek, fgetc, getc, getchar, fputc, putc, putchar, fgets, gets)	27-07-2019 29-07-2019	
11.	formatted I/O, stream errors	30-07-2019	
12.	streams and file descriptors,	31-07-2019	
13.	file and directory maintenance	01-08-2019 02-08-2019	
14.	chmod, chown, unlink, link, symlink	03-08-2019 05-08-2019	
15.	mkdir, rmdir, chdir, getcwd	06-08-2019	

			07-08-2019	
16.	Directory handling system calls		08-08-2019 09-08-2019	
17.	opendir, readdir		10-08-2019	
18.	closedir, rewinddir		12-08-2019	
19.	file and directory maintenance		13-08-2019	

UNIT –3: Unix Process: Threads and Signals

CO3: waiting for a process, zombie process

Text Book: Computer Unix and shell Programming, N B Venkateswarlu, Reem

20.	What is process		14-08-2019	
21.	starting new process		15-08-2019 16-08-2019	
22.	waiting for a process		17-08-2019 19-08-2019	
23.	zombie process, process control		20-08-2019 21-08-2019	
24.	process identifiers		22-08-2019 23-08-2019	
25.	system call interface for process management, -fork, vfork, exit, wait		24-08-2019 26-08-2019 27-08-2019	Lecture interspersed with discussions
26.	waitpid, exec, system, Threads		28-08-2019 29-08-2019	
27.	Thread creation, waiting for a thread to terminate		30-08-2019	
28.	thread synchronization, condition variables		31-08-2019	
29.	cancelling a thread, threads vs. processes		02-09-2019	
30.	Signals-, Signal functions		03-09-2019 04-09-2019	
31.	unreliable signals, interrupted system calls, kill and raise functions		05-09-2019 06-09-2019	
32.	alarm, pause functions, abort, sleep functions.		07-09-2019	

UNIT – 4: Data Management: Management Memory

CO4: simple memory allocation, freeing memory

CO5: file and record locking

Text Book: Unix and shell Programming, N B Venkateswarlu, Reem

33.	creating lock files, locking regions, use of read/ write locking, competing locks, other commands, deadlocks	16-09-2019	
34.	Interprocess Communication	17-09-2019	Lecture interspersed with discussions
35.	Introduction to IPC, IPC between processes on a single computer system	18-09-2019	
36.	IPC between processes on different systems	19-09-2019 20-09-2019	
37.	pipes, FIFOs, streams and messages,	21-09-2019 23-09-2019	

38.	namespaces, introduction to three types of IPC (system-V)	24-09-2019 25-09-2019	
39.	message queues, semaphores and shared memory	26-09-2019	
40.	**Message Queues**	27-09-2019 28-09-2019	
41.	IPC, permission issues, Access permission modes	30-09-2019 01-10-2019	
42.	message structure, working message queues, Unix system-V messages	02-10-2019	
43.	Unix kernel support for messages, Unix APIs for messages, client/server example.	03-10-2019 04-10-2019	

UNIT – 5: Semaphores: -Unix system-V semaphores

CO6: Unix kernel support for semaphores

TB: Unix APIs for
semaphores, file locking with semaphores. Shared Memory:

44.	Unix system-V shared memory	05-10-2019 07-10-2019	
45.	working with a shared memory segment, Unix kernel support for shared memory	08-10-2019 09-10-2019	
46.	Unix APIs for shared memory, semaphore and shared memory example.	10-10-2019	Lecture interspersed with discussions
47.	**Sockets:** Berkeley sockets	11-10-2019	
48.	socket system calls for connection oriented protocol and connectionless protocol, example- client/server program,	12-10-2019 13-10-2019	
49.	advanced socket system calls, socket options.	14-10-2019 15-10-2019	

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Department of Master of Computer Applications

TENTATIVE LESSONPLAN: MC1634/R16
MANAGEMENT INFORMATION SYSTEMS

Course Title: MANAGEMENT INFORMATION SYSTEMS

Section : MCA	Date : 20/6/2019	Page No : 01 of 03
Revision No : 00	Prepared by: M.RITHWIK	Approved by : HOD

Tools: Black board, PPTs

No. of periods	TOPIC	Date	Mode of Delivery
UNIT- I : MANAGEMENT INFORMATION SYSTEMS: A FRAMEWORK **CO1 : Understand why majority of the software projects fails and how that failure probability can be reduced effectively** **TB : "Management Information System, Managerial Perspectives", D P Goyal, McMillan Publications**		
1	Management information systems: A framework-Importance of MIS	24/06/19	
2	MIS: A Definition	24/06/19	
3	Nature and Scope of MIS	26/06/19	
4	Structure of MIS	27/06/19	
5	MIS Classification	28/06/19	
6	Information: A Definition	29/06/19	Lecture interspersed with discussions
7	Types of Information	01/07/19	
8	Dimension of Information	04/07/19	
9	System: A Definition	05/07/19	
10	Kinds of Systems	06/07/19	
11	System Related Concepts	06/07/19	
12	Elements of a System	08/07/19	
13	Human as an Information Processing System	09/07/19	

UNIT – II : BUSINESS APPLICATIONS OF IS

CO 2 : Apply software metrics and attain economics in a project and understand

TB : "Management Information System, Managerial Perspectives", D P Goyal, McMillan Publications

14	Introduction	16/07/19	
15	e – Commerce	16/07/19	
16	Introduction	17/07/19	
17	Enterprise Information Systems	18/07/19	
18	Decision–Making: A Concept	19/07/19	
19	Simon's Model of Decision Making	20/07/19	

No. of periods	TOPIC	Date	Mode of Delivery
20	Frequency Compensation techniques	22/07/19	
21	Decision Making and MIS	24/07/19	
22	Decision Making and MIS	25/07/19	
23	Decision Support Systems: A framework	26/07/19	Lecture interspersed with discussions
24	Characteristics and Capabilities of DSS		
25	Decision Support Systems: A framework	27/07/19	
26	Decision Support Systems: A framework	27/07/19	

UNIT III : INFORMATION SYSTEM PLANNING:

CO 3: Will have good knowledge of various phases in modern software management and artifacts of process.

TB : "Management Information System, Managerial Perspectives", D P Goyal, McMillan Publications

27	Information System Planning: WHY?	29/07/19	
28	Planning Terminology	01/08/19	
29	The Nolan Stage Model	02/08/19	
30	The Four – Stage Model of is planning	17/08/19	Lecture interspersed with discussions
31	Selecting A Methodology	19/08/19	
32	Information Resources Management (IRM)	19/08/19	
33	Organization Structure and Location of MIS	20/08/19	
34	Acquisition of Information Systems	21/08/19	

35	Acquisition of Hardware and Software	24/08/19	

UNIT IV : SYSTEM IMPLEMENTATION:
CO 4: Understand the software architecture perspectives and workflows
TB : "Management Information System, Managerial Perspectives", D P Goyal, McMillan Publications

36	Implementation process	26/08/19	
37	Organizational Change	28/08/19	
38	Evaluation of MIS	29/08/19	
39	System Maintenance	30/08/19	
40	Is security threats	04/09/19	
41	Protecting information system	05/09/19	
42	Is security technology	05/09/19	
43	The Disaster Recovery Plan	07/09/19	

No. of periods	TOPIC	Date	Mode of Delivery
44	System Development Stages	09/09/19	
45	System Development Approaches	12/09/19	
46	Introduction	12/09/19	
47	Introduction	12/09/19	Lecture interspersed with discussions
48	Requirement Determination	14/09/19	
49	Strategies for Requirement Determination	16/09/19	
50	Structured Analysis Tools	19/09/19	
51	Design Objectives	19/09/19	
52	Conceptual Design	21/09/19	
53	Design Methods	23/09/19	

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TENTATIVE LESSON PLAN: : MC1635/R16

DESIGN ANALYSIS OF ALGORITHMS

Course Title: Design Analysis of Algorithms		
Section:MCA	Date:6/07/19	Page No: 01 of 03
Revision No: 00	Prepared By: A. RADHIKA	Approved By: HOD

Tools: Black Board, PPTs

No. of Periods	Topic	Date	Mode of Delivery
Unit-1 Introduction: **CO1: Gain knowledge on worst-case running times of algorithms using asymptotic analysis and about major graph algorithms and different ways to analyze randomized algorithms.** **TB:" Fundamentals of Computer Algorithms, Ellis Horowitz, Satraj Sahni and Rajasekharam,Universities Press "**			
1	Introduction to algorithms	8/7/19	Lecture interspersed with discussions
2	Pseudo code for expressing algorithms	9/7/19	
3	Analysis of space complexity	10/7/19	
4	Analysis of time complexity	11/7/19	
5	Asymptotic notations: big oh, omega, theta notations	12/7/19	
6	Little oh, little omega notations, examples	15/7/19	
7	Probabilistic analysis	16/7/19	
8	Amortized analysis	17/7/19	
9	Disjoint set operations	18/7/19	
10	Union and find algorithm	20/7/19	
11	Spanning Tree and Connected Components	22/7/19	
12	Bi-Connected Components	23/7/19	
13	Tutorial class	24/7/19	

UNIT-II: Divide and conquer
CO2: Understands the divide-and-conquer paradigm and when an algorithmic design situation calls for it.
TB:" Fundamentals of Computer Algorithms, Ellis Horowitz, Satraj Sahni and Rajasekharam,Universities Press "

1	Divide and conquer approach general method	25/7/19	
2	Binary search	26/7/19	
3	Analysis of Binary search	27/7/19	
4	Quick sort	29/7/19	
5	Analysis of quick sort	30/7/19	
6	Merge sort	31/7/19	
7	Analysis of Merge sort	1/8/19	
8	Greedy Method	2/8/19	
9	Strassen's matrix multiplication	3/8/19	
10	Tutorial class	5/8/19	
11	Greedy approach general method	6/8/19	**Lecture interspersed with discussions**
12	0/1 knapsack problem	7/8/19	
13	Example on 0/1 knapsack problem	8/8/19	
14	Job sequencing with dead lines	13/8/19	
15	Algorithm on Job Sequencing	14/8/19	
16	Spanning trees	14/8/19	
17	Minimum cost spanning trees, kruskal's algorithm	16/8/19	
18	Prim's algorithm	16/8/19	
19	Single source shortest path problem	17/8/19	
20	Example on Single source shortest path problem	19/8/19	
21	Tutorial class	20/8/19	

UNIT-III: Dynamic Programming
CO3: Gain knowledge on the dynamic-programming paradigm and when an algorithmic design situation calls for it
TB:" Fundamentals of Computer Algorithms, Ellis Horowitz, Satraj Sahni and Rajasekharam,Universities Press "

1	UNIT-3:Dynamic programming general method	21/8/19	

2	Matrix chain multiplication	22/8/19	Lecture interspersed with discussions
3	Example on Matrix chain multiplication	27/8/19	
4	Optimal binary search trees	30/8/19	
5	Example on Optimal binary search trees	31/8/19	
6	0/1 knapsack problem	3/9/19	
7	Example on 0/1 knapsack problem	4/9/19	
8	All pairs shortest path problem	6/9/19	
9	Example on All pairs shortest path problem	5/9/19	
10	Travelling sales person problem	6/9/19	
11	Reliability design	19/9/19	
12	Tutorial class	21/9/19	

UNIT-IV: Backtracking
CO4: Understands the backtracking paradigm and when an algorithmic design situation calls for it.
TB:" Fundamentals of Computer Algorithms, Ellis Horowitz, Satraj Sahni and Rajasekharam,Universities Press "

1	Back tracking general method	23/9/19	Lecture interspersed with discussions
2	General Method applications	24/9/19	
3	4 Queens Problem	25/9/19	
4	8 Queens Problem	26/9/19	
5	n-queen problem	27/9/19	
6	Sum of subsets problem	28/9/19	
7	Example on Sum of subsets problem	29/9/19	
8	Algorithm	30/9/19	
9	Graph coloring	10/10/19	
10	Example on Graph coloring	11/10/19	
11	Algorithm on Graph coloring	15/10/19	
12	Hamiltonian cycles	16/10/19	
13	Example problem on Hamiltonian cycles	17/10/19	
14	Algorithm on Hamiltonian cycles	18/10/19	
15	Tutorial class	19/10/19	

UNIT-V: Branch and Bound

CO5: Understands the branch and bound paradigm and when an algorithmic design situation calls for it.

TB:" Fundamentals of Computer Algorithms, Ellis Horowitz, Satraj Sahni and Rajasekharam,Universities Press "

1	Branch and bound general method	9/9/19	Lecture interspersed with discussions
2	LC branch and bound solution	12/9/19	
3	FIFO branch and bound solution	16/9/19	
4	LIFO branch and bound solution	16/9/19	
5	Travelling sales person problem	19/9/19	
6	Travelling sales person problem using Least cost branch and bound	23/9/19	
7	Non-deterministic algorithms	23/9/19	
8	P & NP classes	26/9/19	
9	Cooks theorm	27/9/19	
10	**Tutorial**	1/10/19	

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TENTATIVE LESSONPLAN: MC1651

Course Title: BIG DATA ANALYTICS			
Section : MCA	Date : 17/6/19		Page No : 01 of 03
Revision No : 00	Prepared by: VENKATA MADHU B N		Approved by : HOD
Tools: Black board, PPTs			

No. of periods	TOPIC	Date	Mode of Delivery
Unit 1: Data structures in Java: Linked List, Stacks, Queues, Sets, Maps; Generics: Generic classes and Type parameters, Implementing Generic Types, Generic Methods, Wrapper Classes, Concept of Serialization.			
1	UNIT – 1: Data structures in java : Linked list, stacks, Queues	17/6/19	Lecture interspersed with discussions
2	Sets	20/6/19	
3	Maps	22/6/19	
4	Generics: Generic Classes and Type Parameters	25/6/19	
5	Tutorial Class: Data Structures	26/6/19	
6	Implementing Generic Types, Generic Methods	27/6/19 29/6/19	
7	Wrapper Classes	1/7/19	
8	Concept Of serialization	3/7/19	
9	Tutorial Class: Generics, Serialization	4/7/19 5/7/19 6/7/19	

No. of periods	TOPIC	Date	Mode of Delivery
Unit 2: Working with Big Data: Google File System, Hadoop Distributed File System (HDFS) – Building blocks of Hadoop(Namenode, Datanode, Secondary Namenode, JobTracker, TaskTracker), Introducing and Configuring Hadoop cluster (Local,Pseudo-distributed mode, Fully Distributed mode), Configuring XML files			
	Unit / Topic		
10	UNIT – 2: Working with Big Data: Google File System	8/7/19	
11	Hadoop File System(HDFS)	8/7/19	
12	Name Node, Data Node	10/7/19	

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13	Secondary node	10/7/19	Lecture interspersed with discussions
14	Job Tracker, Task Tracker	11/7/19 12/7/19	
15	Tutorial Class: HDFS, GFS	18/7/19	
16	Introducing and Configuring Hadoop Cluster and standalone mode	19/7/19	
17	Local Pseudo-distributed mode	22/7/19	
18	Fully Distributed mode	24/7/19	
19	Configuring XML Files	27/7/19	
20	Tutorial Class: Hadoop Daemons	29/7/19	

No. of periods	TOPIC	Date	Mode of Delivery

Unit 3: Writing MapReduce Programs: A Weather Dataset, Understanding Hadoop API for MapReduce Framework (Old and New),Basic programs of Hadoop MapReduce: Driver code, Mapper code, Reducer code, RecordReader, Combiner, Partitioner.

21	**UNIT -3**: Writing MapReduce Programs: A Weather Dataset	29/7/19	
22	Understanding Hadoop API for MapReduce Framework Old	29/7/19 1/8/19 2/8/19	Lecture interspersed with discussions
23	Understanding Hadoop API for MapReduce Framework New	16/8/19 17/8/19	
24	Basic programs of HadoopMapReduce : Driver Code	19/8/19	
25	Mapper code, Reducer code	26/8/19	
26	RecordReader		
27	Combiner, Partitioner	26/8/19	
28	Tutorial Class: Map Reduce Program	29/7/19	

No. of periods	TOPIC	Date	Mode of Delivery

Unit 4: Hadoop I/O: The Writable Interface, WritableComparable and comparators, Writable Classes: Writable wrappers for Java primitives, Text, BytesWritable, NullWritable, ObjectWritable and GenericWritable, Writable collections, Implementing a Custom Writable: Implementing a RawComparator for speed, Custom comparators

29	**UNIT – 4**:Hadoop I/O: The Writable Interface	30/8/19	
30	Writable Comparable	31/8/19	

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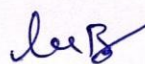Department of Master of Computer Applications

31	Comparators	4/9/19	
32	Writable classes: Writable Wrappers for java Primitives	5/9/19	
33	Text, Bytes Writable	6/9/19	
34	NullWritable, ObjectWritable	6/9/19	Lecture interspersed with discussions
35	GenericWritable	7/9/19	
36	Tutorial class: Writable Comparator	9/9/19	
37	Writable collections		
38	Implementing a Custom Writable	9/9/19	
39	Implementing a Raw Comparator for speed	12/9/19	
40	Custom Comparators	16/9/19	
41	Tutorial class: Raw Comparator for speed	16/9/19	

No. of periods	TOPIC	Date	Mode of Delivery
	Unit 5: Pig: Hadoop Programming Made Easier Admiring the Pig Architecture, Going with the Pig Latin Application Flow, Working through the ABCs of Pig Latin, Evaluating Local and Distributed Modes of Running Pig Scripts, Checking out the Pig Script Interfaces, Scripting with Pig Latin.		
42	UNIT-5: PIG: HadoopProgarmming made easier: Admiring the Pig Architecture	23/9/19	
43	Going with the Pig Latin Application flow	23/9/19	Lecture interspersed with discussions
44	Working through the ABC's Pig Latin	26/9/19	
45	Evaluating Local and Distributed modes of Running Pig Scripts	27/9/19	
46	Checking out the pig script interfaces	28/9/19	
47	Scripting with pig Latin	28/9/19	
48	Tutorial class	30/9/19	

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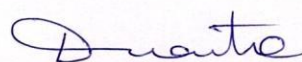SRK Institute of Technology
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TENTATIVE LESSION PLAN: MC1652
NETWORK PROGRAMMING

Course Title: NETWORK PROGRAMMING			
Section : MCA	Date : 10/6/2019	Page No : 01 of 03	
Revision No : 00	Prepared By : M.RITHVIK	Approved By : HOD	
Tools : Black Board, PPTs			

No. of periods	TOPIC	Date	Mode of Delivery
UNIT –I : Introduction to Network Programming CO1: Describe the basic concepts of TCP sockets and TCP echo client-server programs. TB: "UNIX Network Programming", Vol. I, Sockets API, 2nd Edition. -W.Richard Stevens, Pearson Edn. Asia.			
1	OSI model	17/06/19	
2	UNIX standards	19/06/19	
3	TCP and UDP & TCP connection establishment and Format	19/06/19, 20/06/19	Lecture interspersed with discussions
	Buffer sizes and limitation	21/06/19	
5	standard internet services	27/06/19	
6	Protocol usage by common internet application	28/06/19	
7	**Tutorial**	29/06/19	
UNIT –II : TCP client server CO2: Explain the client-server paradigm and socket structures. TB: "UNIX Network Programming", Vol. I, Sockets API, 2nd Edition. -W.Richard Stevens, Pearson Edn. Asia.			
8	Introduction	02/07/19	
9	TCP Echo server functions	04/07/19	Lecture interspersed with discussions
10	Normal startup, terminate and signal handling server process termination	05/07/19	
11	Crashing and Rebooting of server host shutdown of server host.	08/07/19, 11/07/19	
12	**Tutorial**	19/07/19	

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No. of periods	TOPIC	Date	Mode of Delivery
UNIT –III : Sockets **CO3 : Explain Socket options and ability to understand IPC.** **TB: "UNIX Network Programming", Vol. I, Sockets API, 2nd Edition. -W.Richard Stevens, Pearson Edn. Asia.**			
13	Address structures, value – result arguments	20/07/19 23/07/19	
14	Byte ordering and manipulation function and related functions Elementary TCP sockets –Socket	24/07/19 29/07/19	
15	connect, bind, listen, accept, fork and exec function,	01/08/19	
16	concurrent servers Close function and related function	16/08/19	
17	**Tutorial**	19/08/19	
18	**I/O Multiplexing and socket options:** I/O Models, select function	20/08/19, 21/08/19	Lecture interspersed with discussions
19	Batch input, shutdown function, poll function	24/08/19	
20	TCP Echo server	24/08/19	
21	getsockopt and setsockopt functions	27/08/19	
22	Socket states, Generic socket option IPV6 socket option	30/08/19	
23	ICMPV6 socket option	30/08/19	
24	IPV6 socket option and TCP socket options.	30/08/19	
25	**Tutorial**	30/08/19	
UNIT-IV : Elementary UDP sockets **CO4 : Discuss the UDP sockets and UDP echo client-server programs.** **TB: "UNIX Network Programming", Vol. I, Sockets API, 2nd Edition. -W.Richard Stevens, Pearson Edn. Asia.**			
26	Introduction UDP Echo server function	11/09/19	
27	lost datagram, summary of UDP example,	11/09/19	Lecture interspersed with discussions
28	Lack of flow control with UDP, determining outgoing interface with UDP	12/09/19	
29	*Elementary name and Address conversions:* DNS, gethost by Name function	12/09/19	
30	Resolver option	13/09/19	

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No. of periods	TOPIC	Date	Mode of Delivery
31	Function and IPV6 support	13/09/19	
32	uname function, other networking information	13/09/19	
33	**Tutorial**	16/09/19	

UNIT –V : IPC

CO5 : Apply the applications of sockets and demonstrate skill to design simple applications like FTP, TELNET etc.

TB: "UNIX Network Programming", Vol. I, Sockets API, 2nd Edition. -W.Richard Stevens, Pearson Edn. Asia.

No. of periods	TOPIC	Date	Mode of Delivery
34	Introduction, File and record locking2	19/09/19	
35	Name spaces, system IPC3	19/09/19	
36	Message queues4	19/09/19	
37	Semaphores.5	21/09/19	Lecture interspersed with discussions
38	***Remote Login:*** Terminal line disciplines	21/09/19	
39	Pseudo-Terminals	23/09/19	
40	Terminal modes	23/09/19	
41	Control Terminals,	23/09/19	
42	rlogin Overview,	26/09/19	
43	RPC Transparency Issues.	26/10/19	
44	**Tutorial**	01/10/19	

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TENTATIVE LESSION PLAN: MC1653
PYTHON PROGRAMMING

Course Title: PYTHON PROGRAMMING		
Section : Sec I	Date : 20/6/2019	Page No : 01 of 04
Revision No : 00	Prepared By : M.ANITHA	Approved By : HOD

Tools : Black Board, PPTs

No. of periods	TOPIC	Date	Mode of Delivery
UNIT-I : INTRODUCTION CO1: Ability to learn basic introduction into key areas such as OLAP (that stands for On Line Analytical Processing) Design, Data Warehousing and Mining. TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson			
1	History of Python	24/06/19	Lecture interspersed with discussions
2	Need of Python Programming	24/06/19	
3	Applications Basics of Python Programming Using the EPL(Shell),	26/06/19	
4	Running Python Scripts, Variables, Assignment	27/06/19	
5	Keywords, Input-Output, Indentation	28/06/19	
6	**Tutorial**	29/06/19	
UNIT-II : TYPES, OPERATORS AND EXPRESSIONS CO2: Ability to overview of most common tasks and application areas of DM Prediction and knowledge discovery. TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson			
7	Types - Integers	01/07/19	Lecture interspersed with discussions
8	Strings, Booleans Operators-Arithmetic Operators	04/07/19	
9	Comparison Operators, Assignment Operators	05/07/19	
10	Logical Operators, Bitwise Operators, Membership Operators	06/07/19	
11	Identity Operators, Expressions and order of evaluations	06/07/19	
12	**Tutorial**	08/07/19	

No. of periods	TOPIC	Date	Mode of Delivery
13	evaluations Control Flow- if, if-elif-else	09/07/19	
14	for, while, break, continue, pass	11/07/19	
15	**Tutorial**	12/07/19	

UNIT – III: DATA STRUCTURES

CO2: Ability to overview of most common tasks and application areas of DM Prediction and knowledge discovery.

TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson

No. of periods	TOPIC	Date	Mode of Delivery
16	Lists - Operations	15/07/19	
17	Slicing, Methods; Tuples	17/07/19	Lecture interspersed with discussions
18	Sets, Dictionaries	18/07/19	
19	Tutorial class	20/07/19	
20	Sequences. Comprehensions	22/07/19	
21	**Tutorial**	24/07/19	

UNIT – IV: FUNCTIONS

CO2: Ability to overview of most common tasks and application areas of DM Prediction and knowledge discovery.

TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson

No. of periods	TOPIC	Date	Mode of Delivery
22	Defining Functions	25/07/19	
23	Calling Functions, Passing Arguments	26/07/19	
24	Keyword Arguments, Default Arguments,	27/07/19	
25	Variable-length arguments, Anonymous Functions	27/07/19	
26	Fruitful Functions (Function Returning Values),	29/07/19	
27	Scope of the Variables in a Function - Global and Local Variables.	29/07/19, 31/07/19	Lecture interspersed with discussions
28	**Tutorial**	01/08/19	
29	**Modules:** Creating modules, import statement	02/08/19, 16/08/19	
30	From name spacing	17/08/19	

No. of periods	TOPIC	Date	Mode of Delivery
31	Tutorial class	19/08/19	
32	**Python packages**, Introduction to PIP	19/08/19	
33	Installing Packages via PIP	20/08/19, 21/08/19	
34	Using Python Packages	21/08/19, 22/08/19	
35	**Tutorial**	24/08/19	

UNIT – V OBJECT ORIENTED PROGRAMMING OOP IN PYTHON

CO3:Ability to overview of most common techniques used in DM Building and evaluating predictive and descriptive models

TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson

No. of periods	TOPIC	Date	Mode of Delivery
36	Classes, 'self variable', Methods	26/08/19	
	Constructor Method, Inheritance	28/08/19	
37	Overriding Methods, Datahiding	29/08/19	
38	**Error and Exceptions:** Difference between an error and Exception	30/08/19	Lecture interspersed with discussions
39	Handling Exception,	04/09/19	
40	try except block	05/09/19	
41	Raising Exceptions	05/09/19	
42	User Defined Exceptions	07/09/19	
43	**Tutorial**	07/09/19	

UNIT – VI: BRIEF TOUR OF THE STANDARD LIBRARY

CO4: Ensure that students of the course will gain the necessary background and skills that to turn available data into valuable and useful information

TB: "Python Programming: A Modern Approach", Vamsi Kurama, Pearson

No. of periods	TOPIC	Date	Mode of Delivery
44	Operating System Interface	09/09/19	
45	String Pattern Matching	12/09/19	

No. of periods	TOPIC	Date	Mode of Delivery
46	Mathematics, Internet Access	12/09/19	Lecture interspersed with discussions
47	Dates and Times	14/09/19	
48	Data Compression	16/09/19	
49	Multithreading	19/09/19	
50	GUI Programming	19/09/19	
51	Turtle Graphics	21/09/19	
52	**Testing:** Why testing is required ? Basic concepts of testing	23/09/19	
53	Unit testing in Python	23/09/19	
54	Writing Test cases	24/09/19	
55	Running Tests	25/09/19	
56	**Tutorial**	26/09/19	

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TENTATIVE LESSON PLAN: MC1656

Course Title: E- Commerce		
Section: MCA V Sem	Date:10/06/19	Page No: 01 of 03
Revision No:	Prepared By: Ch.Ambedkar	Approved By: HOD

Tools: Black Board, PowerPoint Presentations

No. of Periods	Topic	Date	Mode of Delivery
UNIT I	**: Electronic Commerce**		
CO 1	: Ability to learn basic introduction into key areas such as Electronic Commerce Framework along with consumer and organizational applications with different Mercantile models		
Text Book	**: Frontiers Of Electronic Commerce:Ravi Kalakota Andrew B.Whinston,Pearson**		
1	UNIT: I Electronic Commerce,	10-6-2019	BB/PPT
2	Frame Work	11,12-6-2019	BB/PPT
3	Anatomy of E-Commerce applications	13,14-6-2019	BB/PPT
4	E-commerce Consumer applications	15,17-6-2019	BB/PPT
5	E-Commerce organization applications	18,19-6-2019	BB/PPT
6	Consumer Oriented Electronic commerce	21-6-2019	BB/PPT
7	Mercantile Process Models	22,25-6-2019	BB/PPT
8	Tutorial	26-6-2019	
UNIT II	**: Electronic Payment Systems**		
CO 2	: Ability to overview of most common Electronic Payment Systems and their Risks along with the security issues.		
Text Book	**: Frontiers Of Electronic Commerce:Ravi Kalakota Andrew B.Whinston,Pearson**		
1	Electronic Payment Systems	27-6-2016	BB/PPT
2	Digital Token-Based Electronic Payment Systems	28-6-2019	BB/PPT
3	Smart Cards and Electronic Payment Systems	1,2-7-2019	BB/PPT
4	Credit Card-Based Electronic Payment System	3,4-7-2019	BB/PPT
5	Risk and Electronic Payment System	5,8-7-2019	BB/PPT
6	Tutorial	9-7-2019	

UNIT III : Inter Organizational Commerce
CO 3 : It will analyze the components of Inter and Intra Organizational Commerce with EDI and Workflow awareness

Text Book : Frontiers Of Electronic Commerce:Ravi Kalakota Andrew B.Whinston,Pearson

1	Inter-Organizational Commerce &EDI	10-7-2019	BB/PPT
2	Electronic Data Interchange	12-7-2019	BB/PPT
3	EDI Implementation	15,16-7-2017	BB/PPT
4	Value added networks	22,23-7-2019	BB/PPT
5	Intra –Organizational Commerce	25-7-2019	BB/PPT
6	Work Flow automation And coordination	29-7-2019	BB/PPT
7	Customization and internal commerce	30-7-2019	BB/PPT
8	Supply Chain Management	31-7-2016	BB/PPT
9	Tutorial	1-8-2019	BB/PPT

UNIT IV : Corporate Digital Library
CO 4 : Gain knowledge about basic concepts of classification and types of Digital libraries and Advertising and marketing online products.

Text Book : Frontiers Of Electronic Commerce:Ravi Kalakota Andrew B.Whinston,Pearson

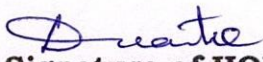|			
1	Corporate Digital Library	2-8-2019	BB/PPT
2	Making a Business Case for Document library	3-8-2019	BB/PPT
3	Types of Digital Documents	16-8-2019	BB/PPT
4	Corporate Data Warehouses	17-8-2019	BB/PPT
5	The New Age Of Information –Based Marketing	19-8-2019	BB/PPT
6	Advertising and Marketing on the internet	20-8-2019	BB/PPT
7	Adverting on the Internet	22-8-2019	BB/PPT
8	Charting the On-Line Marketing process	23-8-2019	BB/PPT
9	Market Research	24-3-2019	BB/PPT
10	Tutorial	25-8-2016	

UNIT V : Consumer Search and Resource Discovery
CO 5 : Become familiar with alternative techniques for resource discovery and retrieval system and get familiar with multimedia concepts

Text Book : Frontiers Of Electronic Commerce:Ravi Kalakota Andrew B.Whinston,Pearson

1	Consumer Search and Resource Discovery paradigms	28,30-8-2019	BB/PPT

2	Information Search and Retrieval	3-9-2019	BB/PPT
3	Electronic Commerce Catalogs	5-9-2019	BB/PPT
4	Information Filtering	6,9-9-2019	BB/PPT
5	Multimedia and digital video	11,13-9-2019	BB/PPT
6	Key Multimedia concepts	16,18-9-2019	BB/PPT
7	Digital Video and Electronic Commerce	20,21-9-2019	BB/PPT
8	Desktop video processing	24,25-9-2019	BB/PPT
9	Tutorial	30-9-2019	

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TENTATIVE LESSON PLAN: MC1657/R16
INTERNET OF THINGS

Course Title:	INTERNET OF THINGS (MC1657/R16)	
Section : MCA	Date : 15/6/2019	Page No : 01 of 03
Revision No : 00	Prepared By : M Naresh Babu	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1 Internet of Things: An Overview			
CO1: Understand the fundamental concepts and theory of internet of things			
TB:" Internet of Things: Architecture, Design Principles And Applications, Rajkamal, McGraw Hill Higher Education "			
1	The Internet of Things: An Overview of Internet of things	17/6/19	Lecture Interspersed With discussions
2	Internet of Things Technology	20/6/19	
3	Behind IoTs	22/6/19	
4	Sources of the IoTs	25/6/19	
5	M2M Communication	26/6/19	
6	Examples OF IoTs	27/6/19 29/6/19	
7	Design Principles For Connected Devices	1/7/19	
8	Internet Connectivity Principles	3/7/19	
9	Internet connectivity	4/7/19 5/7/19 6/7/19	
10	Application Layer Protocols: HTTP	8/7/19	
11	HTTPS, FTP, Telnet	8/7/19	
12	**Tutorial**	8/7/19	
UNIT-II: Business Models for Business Processes in the Internet of Things			
CO2: Understand connected devices and connecting principles.			
TB:" Internet of Things: Architecture, Design Principles And Applications, Rajkamal, McGraw Hill Higher Education "			
13	Business Models for Business Processes in the Internet of Things	10/7/19	Lecture interspersed
14	IoT/M2M systems LAYERS AND designs standardizations	11/7/19 12/7/19	
15	Modified OSI Stack for the IoT/M2M Systems	18/7/19	

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16	ETSI M2M domains and High-level capabilities	19/7/19	with discussions
17	Communication Technologies	22/7/19	
18	Data Enrichment and Consolidation and Device Management	24/7/19	
19	Gateway Ease of designing and affordability	27/7/19	
20	**Tutorial**	29/7/19	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-III: Design Principles for the Web Connectivity for connected-Devices		

UNIT-III: Design Principles for the Web Connectivity for connected-Devices

CO3: The underlying web connectivity for connected devices

TB:" Internet of Things: Architecture, Design Principles And Applications, Rajkamal, McGraw Hill Higher Education "

No. of Periods	TOPIC	Date	Mode of Delivery
21	Design Principles for the Web Connectivity for connected-Devices	29/7/19	Lecture interspersed with discussions
22	Web Communication protocols for Connected Devices	29/7/19 1/8/19 2/8/19	
23	Message Communication protocols for Connected Devices	16/8/19 17/8/19	
24	Web Connectivity for connected-Devices	19/8/19	
25	**Tutorial**	26/8/19	

UNIT-IV: Data Acquiring, Organizing and Analytics in IoT/M2M

CO4: Learn protocols and organizing data and analytics of data, cloud computing using xively, nimbits.

TB:" Internet of Things: Architecture, Design Principles And Applications, Rajkamal, McGraw Hill Higher Education "

No. of Periods	TOPIC	Date	Mode of Delivery
26	Data Acquiring	26/8/19	Lecture interspersed with discussions
27	Organizing and Analytics in IoT/M2M	28/8/19	
28	Applications/Services/Business Processes	30/8/19	
29	IOT/M2M Data Acquiring and Storage	31/8/19	
30	Business Models for Business Processes in the Internet Of Things	4/9/19	
31	Organizing Data	5/9/19	
32	Transactions	6/9/19	
33	Business Processes	6/9/19	
34	Integration and Enterprise Systems	7/9/19	
35	**Tutorial**	9/9/19	

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UNIT-V: Data Collection, Storage and Computing Using a Cloud Platform for IoT/M2M

CO5: Learn protocols and organizing data and analytics of data, cloud computing using xively, nimbits.

TB:" Internet of Things: Architecture, Design Principles And Applications, Rajkamal, McGraw Hill Higher Education "

36	Data Collection	9/9/19	
37	Storage and Computing Using a Cloud Platform for IoT/M2M Applications/Services	12/9/19	
38	Data Collection	16/9/19	
39	Storage and Computing Using cloud platform Everything as a service and Cloud Service Models	16/9/19	
40	IOT cloud-based services using the Xively (Pachube/COSM)	19/9/19	
41	Nimbits and other platforms Sensor	23/9/19	
42	Participatory Sensing	23/9/19	
43	Actuator	26/9/19	
44	Radio Frequency Identification and Wireless	27/9/19	Lecture interspersed with discussions
45	Sensor Network Technology	28/9/19	
46	Sensors Technology	28/9/19	
47	Sensing the World	30/9/19	
48	**Tutorial**	1/10/19	

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