TENTETIVE LESSON PLAN – MC2011
MASTER OF COMPUTER APPLICATIONS

Course Title: BUSINESS COMMUNICATION		
Section : MCA	Date : 17-02-2021	Page No : 01 of 03
Revision No : 00	Prepared By : G. Praveen	Approved By : HOD

Tools : Black board

No. of Periods	TOPIC	Date	Mode of Delivery
	UNIT- I: PURPOSE AND PROCESS OF COMMUNICATION **CO1: To enable the students learn fundamentals of communication.** **TB1 : Mallika Nawal: "Business Communication", Cengage Learning, New Delhi, 2012.** **TB2: Edwin A. Gerloff, Jerry C. Wofford, Robert Cummins Organisational Communication: The key stone to managerialeffectiveness.**		
1.	Introduction	From: 17-02-2021 To: 06/03/2021	Lecture interspersed with discussions
2.	Objectives of Communication		
3.	Process of Communication		
4.	Types of communication		
5.	noise skills		
6.	listening skills		
7.	Types of listening, essentials of good listening and tips.		
8.	Types of listening, essentials of good listening and tips.		
	UNIT- II : MANAGING ORGANIZATIONAL COMMUNICATION **CO2: To enable the students understand different types of communications.** **TB1 : Mallika Nawal: "Business Communication", Cengage Learning, New Delhi, 2012.** **TB2: Edwin A. Gerloff, Jerry C. Wofford, Robert Cummins Organisational Communication: The key stone to managerialeffectiveness.**		
9.	Introduction	From: 08/03/2021 To: 23/03/2021	Lecture interspersed with discussions
10.	Organizational Communication		
11.	Formal Communication		
12.	Informal Communication		
13.	Interpersonal Communication		
14.	Inrarpersonal Communication		
15.	Role of Emotion		
16.	Maslow's Theory		
17.	Barriers to Interpersonal Communication		
18.	Exchange Theory		
19.	Gateways for Effective Interpersonal Communication		
	UNIT III: NON-VERBAL COMMUNICATION AND BODY LANGUAGE **CO3 : To enable the students comprehend various aspects of Non – Verbal Communication.** **TB1 : Mallika Nawal: "Business Communication", Cengage Learning, New Delhi, 2012.**		

TB2: Edwin A. Gerloff, Jerry C. Wofford, Robert Cummins Organisational Communication: The key stone to managerialeffectiveness.

20.	Kinesics, Proxemics, Paralanguage	From: 24/03/2021 To: 17/04/2021	Lecture interspersed with discussions
21.	Haptics, handshakes		
22.	appropriate body language and mannerisms for interviews:		
23.	business etiquettes		
24.	across different cultures.		

Tutor

UNIT – IV : WRITTEN COMMUNICATION

CO4 : To hone the correspondence skills of the students through letters, emails and reports

TB1 : Mallika Nawal: "Business Communication", Cengage Learning, New Delhi, 2012.

TB2: Edwin A. Gerloff, Jerry C. Wofford, Robert Cummins Organisational Communication: The key stone to managerialeffectiveness.

25.	mechanics of writing	From: 09/04/2021 To: 30/04/2021	Lecture interspersed with discussions
26.	report writing		
27.	report writing		
28.	business correspondence		
29.	business correspondence		
30.	business letter format		
31.	business letter format		
32.	Meetings and managing meetings		
33.	Resume writing		
34.	Formats and Skills		

UNIT –V : PRESENTATION SKILLS

CO5: To Prepare the students for making effective professional presentation and to inculcate business etiquette and improve oral skills required for Professional interviews.

TB1 : Mallika Nawal: "Business Communication", Cengage Learning, New Delhi, 2012.

TB2: Edwin A. Gerloff, Jerry C. Wofford, Robert Cummins Organisational Communication: The key stone to managerialeffectiveness.

35	prerequisites of effective	From: 01/05/2021 To: 15/05/2021	Lecture interspersed with discussions
36	presentation, format of presentation		
37	Assertiveness		
38	strategies of assertive behavior		
39	Communication skills for group discussion		
40	Communication skills for Interviews		
41	Interview Techniques.		

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TENTETIVE LESSON PLAN – MC2012
MASTER OF COMPUTER APPLICATIONS

Course Title: MATHEMATICAL AND STATISTICAL FOUNDATIONS		
Section : MCA	**Date : 17-02-2021**	**Page No :** 01 of 03
Revision No : 00	**Prepared By :** T.Prasanna	**Approved By : HOD**

Tools : Black board

No. of Periods	TOPIC	Date	Mode of Delivery
	UNIT- I:BASIC PROBABILITY AND RANDOM VARIABLES **CO1: To provide mathematical background and sufficient experience so that the student can read, write, and understand sentences in the language of discrete and Continuous Probability theory. To introduce students to the basic methodology of "probabilistic thinking" and to apply it to problems.** **TB1 :: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.**		
1.	Introduction to Random Experiments, Sample Spaces Events, the Concept of Probability the Axioms of Probability	From: 17/02/2021 To: 06/03/2021	Lecture interspersed with discussions
2.	Some Important Theorems on Probability Assignment of Probabilities		
3.	Conditional Probability Theorems on Conditional Probability, Independent Events		
4.	Bayes Theorem or Rule, Problems		
5.	Problems		
6.	Random Variables, Discrete Probability Distributions, Distribution Functions for Random Variables		
7.	Distribution Functions for Discrete Random Variables: Binomial Distribution-p.m.f, Properties, Problems		
8.	Problems		
9.	Poisson Distribution-p.m.f, Properties, Problems		
10.	Problems		
11.	Geometric Distribution-p.d.f, Properties,Problems		
12.	Problems		
13.	Tutorial Class		
14.	Distribution Functions for Continuous Random Variables: Uniform Distribution- p.d.f., properties, problems		
15.	Exponential Distribution- p.d.f., properties, problems		
16.	Problems		
17.	Normal Distribution- p.d.f., properties, problems		
18.	Normal Approximation to Binomial distribution		
19.	Problems		
20.	Gamma Distribution, Problems		
21.	Weibull Distribution, Problems		

UNIT- II : SAMPLING AND ESTIMATION THEORY

CO2: The aim of this course is to cover sampling design and analysis methods that would be useful for research and management in many field. A well designed sampling procedure ensures that we can summarize and analyze data with a minimum of assumptions and complications.

TB1 : PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

22.	Population and Sample, Random Numbers Population Parameters Sample Statistics Sampling Distributions	From: 08/03/2021 To: 23/03/2021	Lecture interspersed with discussions
23.	Statistical Inference Sampling With Replacement Problems		
24.	Sampling Without Replacement Problems		
25.	Frequency Distributions, Relative Frequency Distributions		
26.	Mean, Median and Mode of the Frequency Distribution		
27.	Computation of Mean, Variance, and Moments for Grouped Data		
28.	Central Limit theorem		
29.	Tutorial Class		
30.	Sampling Distribution of Mean with Unknown Variance, Problems		
31.	Sampling Distribution of Proportions, Problems		
32.	t - distribution		
33.	F- distribution		
34.	Chi- Square Distribution		
35.	Point Estimation, Maximum Error Estimate - Problems		
36.	Interval Estimation - Problems		
37.	Maximum Likelihood Estimates		

UNIT III: TESTS OF HYPOTHESIS AND SIGNIFICANCE

CO3 : One of the most important uses of statistics is to be able to make conclusions and test Hypothesis. Your conclusions can never be absolutely sure but you can quantify of your measure of confidence in the results.

TB1 : PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

38.	Statistical Decisions Statistical Hypotheses. Null Hypotheses Tests of Hypotheses and Significance Type I and Type II Errors Level of Significance	From: 24-03-2021 To: 17-04-2021	Lecture interspersed with discussions
39.	Large Samples: Test for Single Mean, Problems		
40.	Test for Two Means, Problems		
41.	Test for Single Proportion, Problems		
42.	Test for Two Proportion, Problems		

43.	Tutorial Class		
44.	Small Samples: Studcent t - distribution for		
45.	Studcent t - distribution for two Means,		
46.	Paired t - test, Problems		
47.	F- distribution, Problems		
48.	Chi- Square distribution for Goodness of fit,		
49.	Chi- Square distribution for Contingency Tables		
50.	Power of a Test Quality Control Charts Fitting		

Tutori

UNIT – IV : ALGEBRAIC STRUCTURES AND NUMBER THEORY

CO4 : Overview of algebraic structures, Group theory, number theory, basic algorithms in number Theory.

TB1 : DISCRETE MATHEMATICS AND ITS APPLICATIONS WITH COMBINATORICS AND GRAPH THEORY, 7th Edition, H.Rosen, Tata McGraw Hill, 2003

51.	Algebraic systems, Examples, General properties	From: 19-04-2021 To: 30-04-2021	Lecture interspersed with discussions
52.	Semi groups and Monoids		
53.	Homomorphism of semi groups and monoids		
54.	Group, Subgroup, Abelian Group, Homomorphism, Isomorphism		
55.	Tutorial class		
56.	Properties of integers, division theorem		
57.	GCD, Euclidean algorithm		
58.	LCM, Testing for prime numbers		
59.	The fundamental theorem of Arithmetic		
60.	Modular Arithmetic, Euler and Fermat's theorems		
61.	Tutorial class		

UNIT –V : GRAPH THEORY

CO5: Student will be able to manipulate and analyze data graphically using Appropriate software.

TB1 : DISCRETE MATHEMATICS AND ITS APPLICATIONS WITH COMBINATORICS AND GRAPH THEORY, 7th Edition, H.Rosen, Tata McGraw Hill, 2003

62	Basic concepts of graphs, sub graphs	From: 01-05-2021 To: 15- 05-2021	Lecture interspersed with discussions
63	Representation of graphs: Adjacency, Incidence matrices		
64	Isomorphic graphs		
65	Paths, circuits, Eulerian and Hamiltonian graphs		
66	Multi graphs, Problems		
67	Tutorial class		
68	Planar graphs, Euler's formula		
69	Graph Colouring and covering		
70	Chromatic numbers		
71	Spanning trees, Algorithms for spanning trees		

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Department of Master of Computer Applications

TENTATIVE LESSON PLAN: MC2013

Course Title : COMPUTER ORGANISATION AND OPERATING SYSTEMS		
Section : all	Date : 17-02-2021	Page No : 01 of 03
Revision No : 00	Prepared By : Ms . P.USHA SRI	Approved By : HOD

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I	**INTRODUCTION , MACHINE INSTRUCTIONS AND PROGRAMS** **CO1::** **Understandthebasicorganizationofcomputeranddifferentinstructionformatsandaddressing modes** **TB:Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th ed, McGrawHill.**		
1.	Bus structure of Computers: computer types	17/2/21	Lecture interspersed with discussions
2.	Functional units	18/2/21	
3.	Basic operational concepts	19/2/21	
4.	Bus structures	20/2/21	
5.	Software,performance	20/2/21	
6.	Multiprocessor and multi computers	22/2/21	
7.	Historical perspective	24/2/21	
8.	Numbers, Arithmetic operations	25/2/21	
9.	C characters	26/2/21	
10.	Memory locations and addresses	27/2/21	
11.	Memory operations	27/2/21	
12.	Instruction and instruction sequencing	27/2/21	
13.	Addressing modes	01/3/21	
14.	Assembly languages	03/3/21	
15.	Stacks and Queues	04/3/21	
16.	Basic Input/Output operations	06/3/21	
17.	Role of stacks and queues and Additional Instructions	08/3/21	
18.	**Tutorial**	10/3/21	
UNIT -IIPROCESSING UNIT: FUNDAMENTAL CONCEPTS,MICRO PROGRAMMED CONTROL **CO2::Analyze the concept of pipelining ,segment registers and pin diagram of CPU** **TB: Computer Organization, Carl Hamacher, Zvonks Vranesic, Safea Zaky, 5th ed, McGrawHill.**			
19.	Processing Unit: Fundamental concepts	12/3/21	Lecture interspersed with discussions
20.	Register transfers	13/3/21	
21.	Performing and arithmetic or Logic operation	13/3/21	
22.	Fetching a word from memory	15/3/21	
23.	Execution of complete instruction	17/3/21	
24.	Hardwired control	18/3/21	
25.	**Microprogrammed Control:** Micro Instructions	20/3/21	
26.	Micro program sequencing	20/3/21	

28.	Micro instructions with next-address field	24/3/21	
29.	**Tutorial**	24/03/21	
UNIT –III OPERATING SYSTEMS **CO3:: understand and Analyze various issues related to memory hierarchy** **TB: Operating system concepts , Abraham Silberschatz, Peter Baer Galvin and Greg Gagne 9th Edition, John Wiley and Sons Inc., 2012.**			
30.	Types of Operating Systems	25/03/21	Lecture interspersed with discussions
31.	Operating Systems concepts	26/03/21	
32.	Operating System Operations	27/03/21	
33.	Operating Systems structures:	29/03/21	
34.	Operating system services	30/03/21	
35.	User Operating System Interface	30/03/21	
36.	Introduction to System calls, Types of System calls	31/03/21	
37.	**PROCESS MANAGEMENT:** process concept	01/04/21	
38.	Process State Diagram	02/04/21	
39.	Process Control Diagram	03/04/21	
40.	Process Control Block	05/04/21	
41.	Process Scheduling	06/04/21	
42.	Interprocess communication	07/04/21	
43.	Threads- Threading Issues	08/04/21	
44.	Scheduling – Basic concepts	09/04/21	
45.	Scheduling Criteria	10/04/21	
46.	Scheduling Algorithms	12/04/21	
47.	**Tutorial**	13/04/21	

UNIT - IV PROCESS SYNCHRONIZATION AND PRINCIPLES OF DEADLOCK

CO4::Understand the principles of concurrency and deadlock , applying the deadlock prevention and avoidance techniques.

TB: Operating system concepts, Abraham Silberschatz, Peter Baer Galvin and Greg Gagne 9th Edition, John Wiley and Sons Inc., 2012.

No. of Periods	TOPIC	DATE	Mode of Delivery
48.	Process Synchronization	14/04/21	
49.	Critical Section problem	15/04/21	
50.	Petersons solution	16/04/21	
51.	Synchronization Hardware	17/04/21	
52.	Semaphores	19/04/21	Lecture

53.	Classic problems of synchronization	20/04/21	
54.	Monitors-Usage	21/04/21	
55.	Principles of Deadlock system model	22/04/21	
56.	Deadlock characterization	23/04/21	
57.	Methods for handling deadlocks	24/04/21	
58.	Deadlock prevention and Detection	26/04/21	
59.	Recovery from deadlock	27/04/21	
60.	Critical Regions from Deadlock	28/04/21	
61.	**Tutorial**	28/04/21	
UNIT 5 – MEMORY MANAGEMENT,FILE SYSTEM INTERFACE **CO3::Demonstrate File System Concepts and Mass Storage Structures and memory hierarchy** **TB:Operating system concepts, Abraham Silberschatz, Peter Baer Galvin and Greg Gagne 9th Edition, John Wiley and Sons Inc., 2012.**			
62.	**Memory Management:**Swapping	29/04/21	Lecture interspersed with discussions
63.	Contiguous Memory Allocation	30/04/21	
64.	Paging, Structure of the page table	01/05/21	
65.	Segmentation	03/05/21	
66.	Virtual Memory Management -Demand paging	04/05/21	
67.	Page scheduling algorithms	05/05/21	
68.	**File System Interface:** Concept of a file	06/05/21	
69.	Access methods, Directory structure	07/05/21	
70.	Acyclic graph directories	08/05/21	
71.	General graph directory	10/05/21	
72.	File system mounting	11/05/21	
73.	File sharing, Protection	12/05/21	
74.	**File system Implementation-**File System structure	13/05/21	
75.	Allocation methods-Contiguous allocation	14/05/21	
76.	Linked allocation, Indexed allocation	15/05/21	
77.	Free-Space Management	17/05/21	
78.	**Mass-storage structure**: Overview of Mass-storage structure	18/05/21	
79.	Disk structure, Disk attachment	19/05/21	
80.	Disk Scheduling	20/05/21	
81.	**Tutorial**	21/05/21	

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TENTATIVE LESSON PLAN: MC2014/R20
DATA STRUCTURES

Course Title: DATA STRUCTURES (MC2014/R20)		
Section : MCA	Date : 15/02/2021	Page No : 01 of 03
Revision No : 00	Prepared By : Dr. B. Srikanth	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1: Introduction to C **CO1: Understand the basic concepts of C** **TB:" Let Us C: Authentic Guide to C Programming Language, 17th ed., Yashavant Kanetkar, BPB Publications. "**			
1	Introduction to C:	From: 17/02/21 To: 02/03/21	Lecture Interspersed With discussions
2	Constants		
3	variables		
4	Operators		
5	Expressions		
6	Managing Input and Output operators		
7	Decision making-branching and looping		
8	Arrays		
9	Tutorial		
UNIT-II: Functions, Structures and Unions, Pointers, File handling in C **CO2: Implement programs by using C concepts** **TB:" Let Us C: Authentic Guide to C Programming Language, 17th ed., Yashavant Kanetkar, BPB Publications. "**			
10	Functions	From: 03/03/21 To: 13/03/21	Lecture interspersed with discussions
11	Structures		
12	Unions		
13	Pointers		
14	File handling in C		
15	**Tutorial**		
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
UNIT-III: Introduction to Data Structures **CO3: Understand the basic concepts of data structures and algorithms** **TB:" Data Structures Using C. 2nd Edition, Reema Thareja, Oxford "**			

16	Data structure: Definition	From: 14/03/21 To: 02/04/21	Lecture interspersed with discussions
17	Types of data structures		
18	Recursion Definition		
19	Design Methodology and Implementation of recursive algorithms		
20	Linear		
21	Binary recursion.		
22	Preliminaries of algorithms,		
23	Analysis and complexity		
24	Programs		
25	Linear list – singly linked list		
26	Double linked list		
27	Circular linked list - implementation		
28	Insertion		
29	Deletion		
30	Searching operations on linear list		
31	**Tutorial**		
UNIT-IV: Stacks, Queues, Hash Table Representation **CO4: Describe Stack, Queue and Linked List operations** **TB:" Data Structures Using C. 2nd Edition, Reema Thareja, Oxford "**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
32	Stacks-Operations	From: 03/04/21 To: 28/04/21	Lecture interspersed with discussions
33	array and linked representations of stacks		
34	stack applications		
35	Queues-operations		
36	array and linked representations		
37	Hash Table Representation		
38	hash functions		
39	collision resolution		
40	separate chaining		
41	open addressing		
42	linear probing		
43	quadratic probing		
44	double hashing		
45	rehashing		
46	extendible hashing		
47	**Tutorial**		
UNIT-V: Sorting Techniques & Trees **CO5: Summarize the concept about sorting techniques and knowledge of tree concepts**			

TB:" Data Structures Using C. 2nd Edition, Reema Thareja, Oxford "			
48	Sorting Techniques: Insertion sort	From: 28/04/21 To: 22/05/21	Lecture interspersed with discussions
49	Selection sort		
50	Exchange-bubble sort		
51	Quick sort		
52	Merge sort Algorithm		
53	Trees: Binary Trees, terminology, representation		
54	Traversals- pre, post & in order traversals		
55	Search Trees: Binary Search Trees, Definition		
56	Implementation		
57	Operations- Searching		
58	Insertion		
59	Deletion		
60	**Tutorial**		

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TENTATIVE LESSON PLAN: MC2015
OBJECT ORIENTED PROGRAMMING WITH JAVA

Course Title:	OBJECT ORIENTED PROGRAMMING WITH JAVA (MC2015)/R20	
Section : MCA	Date : 15/02/2021	Page No : 01 of 03
Revision No : 00	Prepared By : Dr. A.Radhika	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1: Basics of Object Oriented Programming (OOP) **CO1: Understand the basic concepts of Java** **TB:" Java-The complete reference,7/e, Herbert Schildt, TMH. "**			
1	Introduction to C: Need for OO paradigm	From: 17/02/21 To: 03/03/21	Lecture Interspersed With discussions
2	A way of viewing world Agents, responsibility		
3	Messages, methods		
4	Classes and instances		
5	Method binding, overriding and exceptions		
6	Summary of OOP concepts, coping with complexity		
7	Abstraction mechanisms		
8	Java Basics: Data types, variables		
9	Scope and life time of variables, arrays, operators,expressions		
10	Control statements, type conversion and costing		
11	Simple java program, classes and objects concepts of classes		
12	Objects, constructors methods, access control		
13	this keyword, garbage collection		
14	Overloading methods and constructors		
15	Parameter passing, recursion, string handling		
16	Tutorial		
UNIT-II: Inheritance **CO2: Understand the concept of Inheritance, packages and interfaces** **TB:" Java-The complete reference,7/e, Herbert Schildt, TMH. "**			
17	Hierarchical abstractions		
18	Base class object, subclass, substitutability		
19	Forms of inheritance- specialization		
20	Specification, construction, extension		
21	Limitation, combination, benefits of inheritance costs of		

	inheritance	From: 04/03/21 To: 19/03/21	Lecture interspersed with discussions
22	Member access rules, super uses, using final with inheritance		
23	Polymorphism, abstract classes		
24	Packages and Interfaces: Defining		
25	Creating and Accessing a package		
26	Understanding CLASSPATH, Importing packages		
27	Differences between classes and interfaces		
28	Defining an interface, Implementing interface		
29	Applying interfaces variables in interface and extending interfaces		
30	Tutorial		
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
UNIT-III: Exception handling and Multithreading **CO3: Understanding the usage of Threads** **TB:" Java-The complete reference,7/e, Herbert Schildt, TMH. "**			
31	Concepts of exception handling, benefits of exception handling	From: 20/03/21 To: 29/03/21	Lecture interspersed with discussions
32	Termination or presumptive models		
33	Exception hierarchy, usage of try, catch		
34	throws and finally, built in exceptions		
35	Creating own exception sub classes		
36	Differences between multi threading and multitasking.		
37	Thread life cycle, creating threads,		
38	Synchronizing threads, daemon threads		
39	Thread groups		
40	**Tutorial**		
UNIT-IV: Event Handling **CO4: Understand the concept of Event Handling and creation of User interface components** **TB:" Java-The complete reference,7/e, Herbert Schildt, TMH. "**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
41	Events, Event sources		
42	Event classes, Event Listeners		
43	Delegation event model		
44	Handling mouse and keyboard events		
45	Adapter classes, inner classes.		
46	User interface components- labels		
47	Button, canvas, scrollbars,		

48	Text components, check box, check box groups,	From: 05/04/21 To: 03/05/21	Lecture interspersed with discussions
49	Choices, list panes- scroll pane		
50	Dialogs, menu bar, graphics		
51	Layout manager- layout manager		
52	Types boarder, grid, flow		
53	Card and grid bag		
54	**Tutorial**		
UNIT-V: Applets **CO5: Understand the concept of Applet creation and Swings Usuage** **TB:" JAVA: How to program, 8/e, Dietal , Dietal,PHI "**			
55	Applets: Concepts of Applet	From: 04/05/21 To: 22/05/21	Lecture interspersed with discussions
56	Differences between applets and applications		
57	Lifecycle of an applet, types of applets		
58	Creating applets, passing parameters to applets		
59	Swings: Introduction, limitations of AWT		
60	MVC architecture, components		
61	Containers, exploring swing		
62	JApplet, JFrame and JComponent		
63	Icons and Labels		
64	Text fields, buttons- The JButton class		
65	Check boxes, Radio Buttons, Combo boxes		
66	Tabbed panes, Scroll panes,		
67	Trees and Tables.		
68	**Tutorial**		

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Signature of HOD 15/2/21

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TENTATIVE LESSON PLAN: MC1651
BIG DATA ANALYTICS

Course Title: BIG DATA ANALYTICS		
Section : MCA	Date : 30/10/2020	Page No : 01 of 03
Revision No : 00	Prepared By : N V Madhu Bindhu	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1 Data structures : An Overview **CO1: Understand the fundamental concepts and theory of Data structures** **TB "Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC",** **"Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly"**			
1	Data structures in Java: Linked List	2/11/20	Lecture Interspersed With discussions
2	Data structures in Java: Stacks	3/11/20	
3	Data structures in Java: Queues	4/11/20	
4	Data structures in Java: Sets	5/11/20	
5	Data structures in Java: Maps	6/11/20 7/11/20	
6	Generics: Generic classes	9/11/20 10/11/20	
7	Generics: Type parameters	12/11/20	
8	Generics: Implementing Generic Types	13/11/20	
9	Generics: Generic Methods	16/11/20	
10	Generics: Wrapper Classes	17/11/20	
11	Generics: Concept of Serialization	18/11/20	
12	**Tutorial**	19/11/20	
UNIT-II: Big Data : An Overview **CO2: Understand Big Data Concepts.** **TB "Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC",** **"Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly"**			
13	Working with Big Data: Google File System	23/11/20	Lecture interspersed with
14	Hadoop Distributed File System (HDFS)	24/11/20	
15	Building blocks of Hadoop (Name node, Data node, Secondary Name node)	25/11/20	
16	Building blocks of Hadoop (Job Tracker, Task)	26/11/20	

	Tracker)		discussions
17	Introducing and Configuring Hadoop cluster	27/11/20 28/11/20 30/11/20	
18	(Local, Pseudo-distributed mode, Fully Distributed mode),	2/12/20	
19	Configuring XML files.	8/12/20	
20	**Tutorial**	9/12/20	
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
UNIT-III: Writing Map Reduce Programs **CO3: Writing Map Reduce Programs** **TB "Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC",** **"Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly"**			
21	Writing Map Reduce Programs: A Weather Dataset, Understanding Hadoop API for Map Reduce Framework (Old and New),	10/12/20	Lecture interspersed with discussions
22	Basic programs of Hadoop	11/12/20 12/12/20 18/12/20	
23	Map Reduce: Driver code, Mapper code, Reducer code	19/12/20	
24	Map Reduce: Record Reader, Combiner, Partitioner	21/12/20 22/12/20	
25	**Tutorial**	23/12/20	
UNIT-IV: Hadoop I/O **CO4: Hadoop I/O** **TB "Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC",** **"Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly"**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
26	The Writable Interface	24/12/20	Lecture interspersed with discussions
27	Writable Comparable and comparators	28/12/20	
28	Writable Classes: Writable wrappers for Java primitives	29/12/20	
29	Writable Classes: Text	30/12/20	
30	Writable Classes: Bytes Writable	31/12/20	
31	Writable Classes: Null Writable	31/12/20	
32	Writable Classes: Object Writable and Generic Writable	2/1/21	
33	Writable collections, Implementing a Custom Writable:	4/1/21	

	Implementing a Raw Comparator for speed		
34	Writable collections, Implementing a Custom Writable: Custom comparators	5/1/21	
35	**Tutorial**	6/1/21	
UNIT-V: Pig, Hive **CO5: Pig, Hive** **TB "Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC",** **"Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly"**			
36	Hadoop Programming Made Easier Admiring the Pig Architecture,	8/1/21	Lecture interspersed with discussions
37	Going with the Pig Latin Application Flow,	9/1/21	
38	Working through the ABCs of Pig Latin	11/1/21	
39	Evaluating Local and Distributed Modes of Running Pig Scripts	12/1/21	
40	Checking out the Pig Script Interfaces	18/1/21	
41	Scripting with Pig Latin Applying Structure to Hadoop Data with	19/1/21	
42	Getting Started with Apache Hive	20/1/21	
43	Examining the Hive Clients	23/1/21	
44	Working with Hive Data Types	2/2/21	
45	Creating and Managing Databases and Tables	3/2/21	
46	Seeing How the Hive Data Manipulation Language Works	4/2/21	
47	Querying and Analyzing Data	6/2/21 8/2/21 9/2/21	
48	**Tutorial**	11/2/21	

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TENTATIVE LESSON PLAN: MC1652

Course Title: NETWORK PROGRAMMING		
Section : MCA	Date : 30/10/2020	Page No : 01 of 03
Revision No : 00	Prepared By : G. Keerthi	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1 Data structures : An Overview **CO1: Introduction to Network Programming** **TB "UNIX Network Programming, Vol. I, SocketsAPI, 2nd Edition. - W.Richard Stevens, Pearson Edn. Asia.",** **"UNIX Network Programming, 1st Edition, - W.Richard Stevens. PHI"**			
1	OSI model	2/11/20	Lecture Interspersed With discussions
2	Unix standards	3/11/20	
3	Unix standards	4/11/20	
4	TCP	5/11/20	
5	UDP & TCP connection establishment and Format	6/11/20 7/11/20	
6	Buffer sizes and limitation	9/11/20 10/11/20	
7	standard internet services	12/11/20	
8	Protocol usage by common internet application	13/11/20	
9	**Tutorial**	16/11/20	
UNIT-II: TCP client server: An Overview **CO2: TCP client server.** **TB "UNIX Network Programming, Vol. I, SocketsAPI, 2nd Edition. - W.Richard Stevens, Pearson Edn. Asia.",** **"UNIX Network Programming, 1st Edition, - W.Richard Stevens. PHI"**			
10	Introduction	17/11/20	Lecture interspersed with discussions
11	TCP Echo server functions	18/11/20	
12	Normal startup	19/11/20	
13	terminate and signal handling server process termination	23/11/20	
14	Crashing and Rebooting of server	24/11/20	
15	host shutdown of server host.	25/11/20	
16	**Tutorial**	26/11/20	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-III: Sockets & I/O Multiplexing and socket options **CO3: Sockets & I/O Multiplexing and socket options** **TB "UNIX Network Programming, Vol. I, SocketsAPI, 2nd Edition. - W.Richard Stevens, Pearson Edn. Asia.",** **"UNIX Network Programming, 1st Edition, - W.Richard Stevens. PHI"**			
17	Address structures, value – result arguments	27/11/20	Lecture interspersed with discussions
18	Byte ordering and manipulation function and related functions Elementary TCP sockets	28/11/20	
19	Socket, connect,	30/11/20	
20	listen, accept,	2/12/20	
21	fork and exec function	8/12/20	
22	concurrent servers	9/12/20	
23	Close function and related function.	10/12/20	
24	I/O Models, select function, Batch input, shutdown function, poll function, TCP Echo server,getsockopt and setsockopt functions.	11/12/20 12/12/20 18/12/20	
25	Socket states, Generic socket option IPV6 socket option ICMPV6	19/12/20	
26	socket option IPV6 socket option and TCP socket options	21/12/20 22/12/20	
27	**Tutorial**	23/12/20	
UNIT-V: IPC, Remote Login **CO5: IPC, Remote Login** **TB "UNIX Network Programming, Vol. I, SocketsAPI, 2nd Edition. - W.Richard Stevens, Pearson Edn. Asia.",** **"UNIX Network Programming, 1st Edition, - W.Richard Stevens. PHI"**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
28	Introduction UDP Echo server function	24/12/20	Lecture interspersed with discussions
29	lost datagram	28/12/20	
30	summary of UDP example	29/12/20	
31	Lack of flow control with UDP	30/12/20	
32	determining outgoing interface with UDP	31/12/20	
33	DNS, gethost by Name function	31/12/20	
34	Resolver option,Function and IPV6 support	2/1/21	
35	uname function	4/1/21	
36	other networking information	5/1/21	

37	**Tutorial**	6/1/21	
UNIT-V: IPC, Remote Login **CO5: IPC, Remote Login** **TB "UNIX Network Programming, Vol. I, SocketsAPI, 2nd Edition. - W.Richard Stevens, Pearson Edn. Asia.",** **"UNIX Network Programming, 1st Edition, - W.Richard Stevens. PHI"**			
38	**IPC** : Introduction	8/1/21	Lecture interspersed with discussions
39	File and record locking	9/1/21	
40	Pipes	11/1/21	
41	FIFOs streams and messages	12/1/21	
42	Name spaces, system IPC	18/1/21	
43	Message queues	19/1/21	
44	Semaphores	20/1/21	
45	**Remote Login:** Terminal line disciplines	23/1/21	
46	Pseudo- Terminals	2/2/21	
47	Terminal modes, Control Terminals	3/2/21	
48	rlogin Overview,	4/2/21	
49	RPC Transparency Issues	6/2/21 8/2/21 9/2/21	
50	**Tutorial**	11/2/21	

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TENTATIVE LESSON PLAN: MC1653

Course Title: PYTHON PROGRAMMING		
Section : MCA	Date : 30/10/2020	Page No : 01 of 03
Revision No : 00	Prepared By : J. Niranjani	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
Unit-1 Python Introduction: An Overview **CO1: PYTHON PROGRAMMINGs** **TB "Python Programming: A Modern Approach, Vamsi Kurama, Pearson", "Learning Python, Mark Lutz, Orielly"**			
1	History of Python	2/11/20	Lecture Interspersed With discussions
2	Need of Python Programming,	3/11/20	
3	Applications Basics of Python Programming Using the REPL(Shell)	4/11/20	
4	Running Python Scripts	5/11/20	
5	Variables	6/11/20 7/11/20	
6	Assignment	9/11/20 10/11/20	
7	Keywords	12/11/20	
8	Input-Output	13/11/20	
9	Indentation	16/11/20	
10	**Tutorial**	17/11/20	
UNIT-II: Types, Operators and Expressions **CO2: Types, Operators and Expressions.** **TB "Python Programming: A Modern Approach, Vamsi Kurama, Pearson", "Learning Python, Mark Lutz, Orielly"**			
11	Types - Integers, Strings, Booleans	18/11/20	Lecture interspersed with discussions
12	Operators- Arithmetic Operators,	19/11/20	
13	Comparison (Relational) Operators	23/11/20	
14	Assignment Operators	24/11/20	
15	Logical Operators, Bitwise Operators	25/11/20	
16	Membership Operators	26/11/20	
17	Identity Operators Expressions and order of	27/11/20 28/11/20	

	evaluations	30/11/20	
18	Control Flow- if, if-elif-else	2/12/20	
19	for, while, break, continue, pass	8/12/20	
20	**Tutorial**	9/12/20	
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
UNIT-III: Data Structures **CO3: Data Structures** **TB "Python Programming: A Modern Approach, Vamsi Kurama, Pearson", "Learning Python, Mark Lutz, Orielly"**			
21	**Data Structures** Lists - Operations	10/12/20	Lecture interspersed with discussions
22	Slicing, Methods; Tuples	11/12/20 12/12/20 18/12/20	
23	Sets, Dictionaries	19/12/20	
24	Sequences. Comprehensions.	21/12/20 22/12/20	
25	**Tutorial**	23/12/20	
UNIT-IV: Functions **CO4: Functions** **TB "Python Programming: A Modern Approach, Vamsi Kurama, Pearson", "Learning Python, Mark Lutz, Orielly"**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
26	Defining Functions	24/12/20	Lecture interspersed with discussions
27	Calling Functions	28/12/20	
28	Passing Arguments,	29/12/20	
29	Keyword Arguments,	30/12/20	
30	Default Arguments	31/12/20	
31	Variable-length arguments	31/12/20	
32	Anonymous Functions	2/1/21	
33	Fruitful Functions(Function Returning Values)	4/1/21	
34	Scope of the Variables in a Function - Global and Local Variables	5/1/21	
35	**Tutorial**	6/1/21	
UNIT-V: Object Oriented Programming OOP in Python **CO5: Object Oriented Programming OOP in Python** **TB "Python Programming: A Modern Approach, Vamsi Kurama, Pearson",**			

"Learning Python, Mark Lutz, Orielly"			
36	Classes, 'self variable', Methods, Constructor Method	8/1/21	Lecture interspersed with discussions
37	Inheritance	9/1/21	
38	Overriding Methods	11/1/21	
39	Datahiding	12/1/21	
40	Difference between an error and Exception,	18/1/21	
41	Handling Exception, try except block,	19/1/21	
42	Raising Exceptions, User Defined Exceptions	20/1/21	
43	Operating System Interface	23/1/21	
44	String Pattern Matching, Mathematics,	2/2/21	
45	Internet Access, Dates and Times, Data Compression,	3/2/21	
46	Multithreading, GUI Programming, Turtle Graphics	4/2/21	
47	**Testing:** Why testing is required ?, Basic concepts of testing, Unit testing in Python, Writing Test cases, Running Tests.	6/2/21 8/2/21 9/2/21	
48	**Tutorial**	11/2/21	

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TENTATIVE LESSON PLAN: MC1656

Course Title: E-COMMERCE		
Section : MCA	Date : 30/10/2020	Page No : 01 of 03
Revision No : 00	Prepared By : Rehana	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
	Unit-1 E-COMMERCE: An Overview **CO1: E-COMMERCE** **TB "Frontiers of Electronic Commerce, Kalakata, Whinston, PEA,2006."**		
1	Electronic Commerce	2/11/20	Lecture Interspersed With discussions
2	Frame work	3/11/20	
3	anatomy of E-Commerce applications	4/11/20	
4	E-Commerce Consumer applications	5/11/20	
5	E-Commerce organization applications	6/11/20 7/11/20 9/11/20	
6	Consumer Oriented Electronic commerce	10/11/20 12/11/20 13/11/20	
7	Consumer Oriented Electronic commerce	16/11/20 17/11/20	
8	Mercantile Process models	18/11/20	
9	**Tutorial**	19/11/20	
	UNIT-II: Electronic payment systems **CO2: Electronic payment systems** **TB "Frontiers of Electronic Commerce, Kalakata, Whinston, PEA,2006."**		
10	Digital Token-Based	23/11/20	Lecture interspersed with discussions
11	Smart Cards	24/11/20	
12	Credit Cards	25/11/20 26/11/20	
13	Risks in Electronic Payment systems	27/11/20 28/11/20 30/11/20	

		2/12/20	
14	**Tutorial**	9/12/20	
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
UNIT-III: Inter Organizational Commerce **CO3: Inter Organizational Commerce** **TB "Frontiers of Electronic Commerce, Kalakata, Whinston, PEA,2006."**			
15	Inter Organizational Commerce - EDI	10/12/20	Lecture interspersed with discussions
16	EDI Implementation, Value added networks. Intra Organizational Commerce - work Flow	11/12/20 12/12/20 18/12/20	
17	Automation	19/12/20	
18	Customization and internal Commerce, Supply chain Management	21/12/20 22/12/20	
19	**Tutorial**	23/12/20	
UNIT-IV: Corporate Digital Library **CO4: Corporate Digital Library** **TB "Frontiers of Electronic Commerce, Kalakata, Whinston, PEA,2006."**			
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
20	Corporate Digital Library - Document Library	24/12/20	Lecture interspersed with discussions
21	digital Document types	28/12/20	
22	corporate Data Warehouses	29/12/20	
23	Advertising and Marketing	30/12/20	
24	Information based marketing	31/12/20	
25	Advertising on Internet	31/12/20	
26	on-line marketing process	2/1/21	
27	market research.	4/1/21	
28	**Tutorial**	5/1/21 6/1/21	
UNIT-V: Consumer Search and Resource Discovery **CO5: Consumer Search and Resource Discovery** **TB "Frontiers of Electronic Commerce, Kalakata, Whinston, PEA,2006."**			
29	Consumer Search and Resource Discovery	8/1/21	
30	Information search and Retrieval	9/1/21	

31	Commerce Catalogues	11/1/21	Lecture interspersed with discussions
32	Information Filtering	12/1/21	
33	Multimedia - key multimedia concepts	18/1/21 19/1/21	
34	Digital Video and electronic Commerce	20/1/21 23/1/21	
35	Desktop video processings	2/2/21 3/2/21	
36	Desktop video conferencing	4/2/21 6/2/21	
37	**Tutorial**	11/2/21	

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TENTATIVE LESSON PLAN: MC1657/R16
INTERNET OF THINGS

Course Title: INTERNET OF THINGS (MC1657/R16)		
Section : MCA	Date : 30/10/2020	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	2/11/20	Lecture Interspersed With discussions
2	Internet of Things Technology	3/11/20	
3	Behind IoTs	4/11/20	
4	Sources of the IoTs	5/11/20	
5	M2M Communication	6/11/20 7/11/20	
6	Examples OF IoTs	9/11/20 10/11/20	
7	Design Principles For Connected Devices	12/11/20	
8	Internet Connectivity Principles	13/11/20	
9	Internet connectivity	16/11/20	
10	Application Layer Protocols: HTTP	17/11/20	
11	HTTPS, FTP, Telnet	18/11/20	
12	**Tutorial**	19/11/20	
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	23/11/20	Lecture interspersed with
14	IoT/M2M systems LAYERS AND designs standardizations	24/11/20	
15	Modified OSI Stack for the IoT/M2M Systems	25/11/20	
16	ETSI M2M domains and High-level capabilities	26/11/20	
17	Communication Technologies	27/11/20 28/11/20	

		30/11/20	discussions
18	Data Enrichment and Consolidation and Device Management	2/12/20	
19	Gateway Ease of designing and affordability	8/12/20	
20	**Tutorial**	9/12/20	
No. of Periods	**TOPIC**	**Date**	**Mode of Delivery**
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 "**			
21	Design Principles for the Web Connectivity for connected-Devices	10/12/20	Lecture interspersed with discussions
22	Web Communication protocols for Connected Devices	11/12/20 12/12/20 18/12/20	
23	Message Communication protocols for Connected Devices	19/12/20	
24	Web Connectivity for connected-Devices	21/12/20 22/12/20	
25	**Tutorial**	23/12/20	
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	24/12/20	Lecture interspersed with discussions
27	Organizing and Analytics in IoT/M2M	28/12/20	
28	Applications/Services/Business Processes	29/12/20	
29	IOT/M2M Data Acquiring and Storage	30/12/20	
30	Business Models for Business Processes in the Internet Of Things	31/12/20	
31	Organizing Data	31/12/20	
32	Transactions	2/1/21	
33	Business Processes	4/1/21	
34	Integration and Enterprise Systems	5/1/21	
35	**Tutorial**	6/1/21	
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	8/1/21	Lecture interspersed with discussions
37	Storage and Computing Using a Cloud Platform for IoT/M2M Applications/Services	9/1/21	
38	Data Collection	11/1/21	
39	Storage and Computing Using cloud platform Everything as a service and Cloud Service Models	12/1/21	
40	IOT cloud-based services using the Xively (Pachube/COSM)	18/1/21	
41	Nimbits and other platforms Sensor	19/1/21	
42	Participatory Sensing	20/1/21	
43	Actuator	23/1/21	
44	Radio Frequency Identification and Wireless	2/2/21	
45	Sensor Network Technology	3/2/21	
46	Sensors Technology	4/2/21	
47	Sensing the World	6/2/21 8/2/21 9/2/21	
48	**Tutorial**	11/2/21	

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