TENTATIVE LESSON PLAN:R1922051
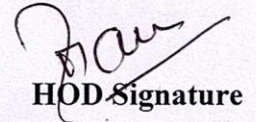
Course Title: Probability and Statistics				
Section: IT	**Date : 22-03-2020**		**Page No :00**	
Revision No :00	**Prepared By**: G.Koteswaramma		**Approved By : HOD**	
Tools: Black board				
CO1: Classify the concepts of data science and its importance (L4) or (L2).				
"Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor,				
No. of Periods	**TOPIC**		**DATE**	**Mode of Delivery**
	UNIT-I: Descriptive statistics and methods for data science			
1.	Data science and introduction to statistics		From: 22/3/2021 To 10/4/2021	Lecture interspersed with discussions
2.	Population VSsample			
3.	Collection of data			
4.	Primary data and secondary data			
5.	Type of variables: dependent and independent variables.			
6.	Categorical and continuous variables.			
7.	Data visualization.			
8.	Measures of central tendency			
9.	Mean,median,mode,G.M,H.M.			
10.	Measures of variability.			
11.	Range, quartile deviation, mean deviation, standard deviation.			
12.	Skewness and kurtosis			
13.	Revision			
	UNIT-II: Correlation and curve fitting			
CO2: Interpret the association of characteristics and through correlation and regression tools				
CO3: Make use of the concepts of probability and their applications.				
"Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor,				
14.	Correlation		From 12/4/2021 To 1/5/2021	Lecture interspersed with discussions
15.	Correlation coefficient			
16.	Correlation coefficient problems			
17.	Rank correlation, problems			
18.	Regression coefficients			
19.	Regression properties			
20.	Regression lines			
21.	Method of least squares			
22.	Straight line, problems			
23.	Parabola, problems			
24.	Exponential curves, power curves			
25.	Exponential curves, power curves problems.			
26.	Revision			
	UNIT III: Probability and statistics			
CO4: Apply discrete and continuous probability distributions				
"Fundamental Of Mathematical Statistics"By S. C. Gupta And V.K.				

				Lecture interspersed with discussions
Kapoor,					
	27.	Definition of probability.		From 3/5/2021 To 29/5/2021	
	28.	Conditional probability and their problems.			
	29.	Baye's theorem and their problems.			
	30.	Random variables			
	31.	Discrete random variables.			
	32.	problems.			
	33.	Continuous random variables			
	34.	problems.			
	35.	Distribution function			
	36.	problems			
	37.	Mathematical expectation and variance			
	38.	problems			
	39.	Binomial distribution			
	40.	Poisson distribution			
	41.	Uniform distribution			
	42.	Normal distribution			
	43.	problems			

UNIT IV: Sampling theory

CO5: design the components of a classical hypothesis test

"Fundamental Of Mathematical Statistics"By S. C. Gupta And V.K. Kapoor,

				Lecture interspersed with discussions
44.	Population and samples		From 31/6/2021 To 19/6/2021	
45.	Sampling distribution of means and variances(definition only)			
46.	Central limit theorem (without proof)			
47.	Introduction to t distribution			
48.	Introduction to chew square distribution			
49.	Introduction to,F-distridutions			
50.	Point and interval distribution			
51.	problems			
52.	Maximum error of estimate.			
53.	problems			
54.	Sampling distribution of means and variances(definition only)			
55.	problems			

UNIT V:Tests of hypothesis

CO6: Infer the statistical inferential methods based on small and large sampling tests

"Fundamental Of Mathematical Statistics"By S. C. Gupta And V.K. Kapoor,

56.	Introduction		
57.	Hypothesis		
58.	Null and alternative hypothesis		
59.	Type I&II errors		
60.	Level of significance		
61.	One tail and two tail tests		
62.	Tests concerning one mean and two eans	From	

69.	Tests concerning one mean and two eans	21/6/2021	Lecture
70.	Large and small samples	To	interspersed
71.	Tests on proportion	10/7/2021	with
72.	Tests on proportion		discussions
73.	Problems		
74.	Revision		

G. Koteswaramma
Faculty Signature

HOD Signature

Course Title: JAVA PROGRAMMING			
Branch : IT Year/Sem: II/II	Date : 6/4/2021		AY:2020-21
Revision No : 00	Prepared by: G D K KISHORE		Approved by : HOD
Tools: Black board, PPTs, MS TEAMS APP			

UNIT 1: Program Structure in Java:
CO 1: Discuss and understand java programming constructs, Control structures
TB: JAVA one step ahead, Anitha Seth, B.L.Juneja, Oxford.

No. of periods	TOPIC	Date	Mode of Delivery
1.	Program Structure in Java: Introduction, Writing Simple Java Programs	6/4/2021	
2.	Elements or Tokens in Java Programs	6/4/2021	
3.	Java Statements	8/4/2021	
4.	Command Line Arguments, User Input to Programs	9/4/2021	
5.	Escape Sequences Comments, Programming Style	10/4/2021	
6.	Data Types, Variables, and Operators :Introduction,	12/4/2021	
7.	Data Types in Java, Declaration of Variables, Data Types	12/4/2021	
8.	Type Casting, Scope of Variable Identifier, Literal Constants, Symbolic Constants	15/4/2021	Lecture interspersed with discussions & online classes with MS Teams App
9.	Formatted Output with printf() Method, Static Variables and Methods, Attribute Final	16/4/2021	
10.	Introduction to Operators, Precedence and Associativity of Operators	17/4/2021	
11.	Assignment Operator (=), Basic Arithmetic Operators, Increment (++) and Decrement (- -) Operators	19/4/2021	
12.	TernaryOperator, Relational Operators	20/4/2021	
13.	Boolean Logical Operators, Bitwise Logical Operators	21/4/2021	
14.	Control Statements: Introduction, if Expression, Nested if Expressions, if–else Expressions	22/4/2021	
15.	Ternary Operator?:, Switch Statement, Iteration Statements	23/4/2021	
16.	while Expression, do–while Loop	24/4/2021	
17.	for Loop, Nested for Loop, For–Each for Loop	26/4/2021	
18.	Break Statement, Continue Statemen	27/4/2021	
19.	TUTORIAL CLASS	28/4/2021	

UNIT 2: Classes and Objects:
CO 2: Illustrate and experiment Object Oriented Concepts like classes, objects
TB: JAVA one step ahead, Anitha Seth, B.L.Juneja, Oxford.

No. of periods	TOPIC	Date	Mode of Delivery
20.	Classes and Objects: Introduction, Class Declaration and Modifiers, Class Members, Declaration of Class Objects	29/4/2021	
21.	Assigning One Object to Another, Access Control for Class Members	30/4/2021	
22.	Accessing Private Members of Class	1/5/2021	
23.	Constructor Methods for Class, Overloaded Constructor Methods	1/5/2021	
24.	Nested Classes, Final Class and Methods,	3/5/2021	

No.	TOPIC	Date	Mode of Delivery
25.	Passing Arguments by Value and byReference, Keyword this	4/5/2021	**Lecture interspersed online classes with MS Teams App**
26.	Methods: Introduction, Defining Methods, Overloaded Methods, Overloaded Constructor Methods	4/5/2021	
27.	Class Objects as Parameters in Methods, Access Control	5/5/2021	
28.	Recursive Methods, Nesting of Methods	5/5/2021	
29.	Overriding Methods, Attributes Final and Static	6/5/2021	
30.	TUTORIAL CLASS	6/5/2021	

UNIT 3: Arrays,Inheritance,Interfaces:

CO 3 : Apply Object Oriented Constructs such as Inheritance, interfaces, and exception handling

TB: JAVA one step ahead, Anitha Seth, B.L.Juneja, Oxford.

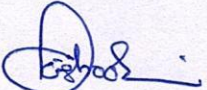| No. of periods	TOPIC	Date	Mode of Delivery
31.	Arrays: Introduction, Declaration and Initialization of Arrays, Storage of Array in Computer Memory	7/5/2021	**Lecture interspersed online classes with MS Teams App**
32.	Accessing Elements of Arrays, Operations on Array Elements	7/5/2021	
33.	Assigning Array to Another Array, Dynamic Change of Array Size	8/5/2021	
34.	Sorting of Arrays	8/5/2021	
35.	Search for Values in Arrays	18/5/2021	
36.	Class Arrays, Two-dimensional Arrays, Arrays of Varying Lengths	19/5/2021	
37.	Three-dimensional Arrays, Arrays as Vectors	20/5/2021	
38.	Inheritance: Introduction, Process of Inheritance, Types of Inheritances	21/5/2021	
39.	Universal Super ClassObject Class, Inhibiting Inheritance of Class Using Final Access Control and Inheritance, Multilevel Inheritance, Application of Keyword Super	22/5/2021	
40.	Constructor Method and Inheritance, Method Overriding, Dynamic Method Dispatch	24/5/2021	
41.	Abstract Classes, Interfaces and Inheritance	25/5/2021	
42.	TUTORIAL CLASS	26/5/2021	

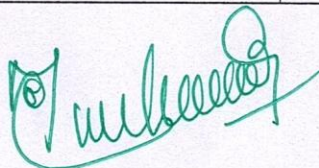**UNIT 4: Packages and Java Library,Exception Handling:**

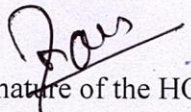**CO 3 : Apply Object Oriented Constructs such as Inheritance, interfaces, and exception handling**

TB: JAVA one step ahead, Anitha Seth, B.L.Juneja, Oxford.

No. of periods	TOPIC	Date	Mode of Delivery
43.	Packages and Java Library: Introduction, Defining Package, Importing Packages and Classes into Programs	27/5/2021	
44.	Path and Class Path	28/5/2021	
45.	Access Control, Packages in Java SE, Java.lang Package and its Classes, Class Object, Enumeration	29/5/2021	
46.	class Math, Wrapper Classes, Auto-boxing and Autounboxing	31/5/2021	
47.	Java util Classes and Interfaces, Formatter Class, Random Class	1/6/2021	
48.	Time Package, Class Instant (java.time.Instant), Formatting for Date/Time in Java	2/6/2021	**Lecture interspersed**
49.	Temporal Adjusters Class, Temporal Adjusters Class.	4/6/2021	

No. of periods	TOPIC	Date	Mode of Delivery
	Exception Handling: Introduction, Hierarchy of Standard Exception Classes		online classes with MS Teams App
50.	Keywords throws and throw, try, catch, and finally Blocks	5/6/2021	
51.	Multiple Catch Clauses, Class Throwable, Unchecked Exceptions, Checked Exceptions	7/6/2021	
52.	try-with-resources, Catching Subclass Exception, Custom Exceptions	8/6/2021	
53.	Nested try and catch Blocks, Rethrowing Exception, Throws Clause	9/6/2021	
54.	**Tutorial class**	10/6/2021	

UNIT 5: String Handling in Java, Multithreaded Programming,Java Database Connectivity:

CO 4: Construct applications using multithreading and I/O

TB: JAVA one step ahead, Anitha Seth, B.L.Juneja, Oxford.

No. of periods	TOPIC	Date	Mode of Delivery
55.	String Handling in Java: Introduction, Interface Char Sequence, Class String	11/6/2021	
56.	Methods for Extracting Characters from Strings	12/6/2021	
57.	Methods for Comparison of Strings, Methods for Modifying Strings	14/6/2021	
58.	Methods for Searching Strings, Data Conversion and Miscellaneous Methods	15/6/2021	
59.	Class String Buffer, Class String Builder, Multithreaded Programming: Introduction, Need for Multiple Threads	16/6/2021	
60.	Multithreaded Programming for Multi-core Processor,Thread Class, Main Thread- Creation of New Threads, Thread States	17/6/2021	
61.	Thread Priority-Synchronization, Deadlock and Race Situations	18/6/2021	
62.	Inter-thread Communication - Suspending, Resuming, and Stopping of Threads,	19/6/2021	Lecture interspersed online classes with MS Teams App
63.	Java Database Connectivity: Introduction	21/6/2021	
64.	JDBC Architecture,	22/6/2021	
65.	Installing MySQL and MySQL Connector/J	24/6/2021	
66.	JDBC Environment Setup,	25/6/2021	
67.	Establishing JDBC Database Connections	26/6/2021	
68.	ResultSet Interface, Creating JDBC Application,	28/6/2021	
69.	JDBC Batch Processing, JDBC Transaction Management	29/6/2021	
70.	**Tutorial class**	30/6/2021	

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Course Title: Operating Systems (R1922121)			
Branch : IT **Year/Sem: II/II**	**Date : 23/3/21**		**Page No : 01 of 03**
Revision No : 00	**Prepared By : Amritha mishra**		**Approved By : HOD**

Tools : Black board, PPTs, Moodle, GOOGLE MEETS

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I	**An Overview of Database Management**		
CO1: Describe various generations of Operating System and functions of Operating System **TB : Silberschatz A, Galvin P B, and Gagne G, Operating System Concepts, 9th edition, Wiley, 2013.**			
1.	Operating Systems Overview	23/03/21	
2.	Operating system Concepts	24/03/21	
3.	Operating system functions	26/03/21	
4.	Evaluation of Operating systems operations	27/03/21	
5.	System Structures: Operating System Services,	30/03/21	
6	operating system structure	31/03/21	
7	Systems calls- Types of System Calls,	01/04/21	Lecture interspersed with discussions
8	operating system debugging	03/04/21	
9	System generation	05/04/21	
10	Process Concept: Basic concepts	06/04/21	
11	Process states, process control block	07/04/21	
12	Operations on processes	08/04/21	
13	Inter-process Communication.	09/4/21	

Course Title: Operating Systems (R1922121)			
Section : IT	**Date :**		**Page No : 01 of 03**
Revision No : 00	**Prepared By : Amritha mishra**		**Approved By : HOD**

Tools : Black board, PPTs, Google Meets

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –II	**Relational Model**		
CO2: **Describe the concept of program, process and thread and analyze various CPU Scheduling Algorithms and compare their performance .** **TB : Silberschatz A, Galvin P B, and Gagne G, Operating System Concepts, 9th edition, Wiley, 2013.**			
14	Process Scheduling	10/4/21	
15	Scheduling Criteria	11/4/21	
16	Scheduling Algorithms	12/4/21	
17	Multiple Processor Scheduling	15/4/21	
18	Thread Scheduling	16/4/21	Lecture interspersed with discussions
19	Multithreaded Programming: Multithreading Models	17/421	
20	Thread Libraries, Threading Issues, Examples.	19/4/21	
21	Process Concurrency And Synchronization:	20/4/21	

	Introduction		
22	Race Condition, Critical Region	22/4/21	
23	Mutual Exclusion, Peterson's Solution, Hardware Support	23/4/21	
24,25	Operating System Support, Semaphores, Monitors	24/4/21, 26/4/21	
26,27	Classic Synchronization problem: Reader's-Writer's with unlimited & limited buffer	27/4/21 28/4/21	
28,29	Producer –Consumer problem, Dining philosopher's problem. Dining philosopher's problem.	29/4/21, 01/05/21	

UNIT –III   Queries, Constraints, Triggers

CO3: Solve Inter Process Communication problems using Mathematical Equations by various methods

TB : Silberschatz A, Galvin P B, and Gagne G, Operating System Concepts, 9th edition, Wiley, 2013.

30	Memory-Management Strategies: Introduction	03/05/21	
31	Swapping, Contiguous memory allocation	04/05/21	
32	Paging,	05/05/21	
33	Segmentation, Examples,	06/05/21	
34	Virtual Memory Management: Introduction	07/05/21	
35	Demand paging	13/05/21	
36	Copy on-write,	15/05/21	
37	Page replacement,	17/05/21	Lecture interspersed with discussions
38	Page replacement algorithms	18/05/21	
39	Frame allocation	19/05/21	
40	Thrashing	20/05/21	
41	Memory-mapped files	18/05/21	
42	Kernel memory allocation	19/05/21	

Course Title: Operating Systems (R1922121)			
Section : IT	Date :		Page No : 01 of 03
Revision No : 00	Prepared By : Amritha mishra		Approved By : HOD

Tools : Black board, PPTs, Google Meets

No. of Periods	TOPIC	Date	Mode of Delivery

UNIT –IV   Schema Refinement (Normalization)

CO4 Compare various Memory Management Schemes especially paging and Segmentation in Operating System and apply various Page Replacement Techniques

TB : Stallings W, Operating Systems -Internals and Design Principles, 6th edition, Pearson Education, 2009.

No. of Periods	TOPIC	Date	Mode of Delivery
43	Deadlocks: Resources	20/05/21	
44	Conditions for resource deadlocks	21/05/21	
43	Graph models of deadlocks,	22/05/21	
44	Deadlock detection and recovery	24/05/21	
45	Deadlock avoidance	25/05/21	
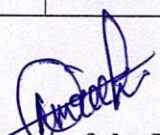
46	Deadlock prevention.	26/05/21	Lecture interspersed with discussions
47	File Systems: Files	27/05/21	
48	Directories	28/05/21	
49	File system implementation	29/05/21	
50	management and optimization	31/05/21	
51	Secondary-Storage Structure:	01/06/21	
52,53	Overview of disk structure and attachment	02/06/21, 03/06/21	
54	Disk scheduling	04/06/21	
55	RAID structure.	07/06/21	

UNIT –V   Transaction Management and Concurrency Control:

CO5: Outline File Systems in Operating System like UNIX/Linux and Windows
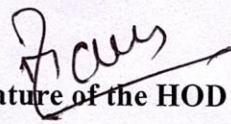
TB : Stallings W, Operating Systems -Internals and Design Principles, 6th edition, Pearson Education, 2009.

56	System Protection:	08/06/21	
57	Goals of protection	09/06/21	
58	Principles and domain of protection	10/06/21	
59	Access matrix	11/06/21	
60	Access control,	14/06/21	
61	Revocation of access rights	15/06/21	
62	System Security: Introduction	17/06/21	
63	Program threats,	18/06/21	
64	System and network threats	19/06/21	Lecture interspersed with discussions
65	Cryptography for security,	21/06/21	
66	User authentication	22/06/21	
67	Implementing security defenses	23/06/21	
68	Firewalling to protect systems and networks	24/06/21	
69	Computer security classification.	25/06/21	
70	Case Studies:	26/06/21	
71	Study of Operating System Functionalities in various operating Systems like Windows	28/06/21	
72	Unix	29/06/21	
73	Linux and Mobile Operating Systems.:	30/06/21	

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Signature of the HOD

TENTATIVE PLAN: R1922054

Course Title: Data Base Management System (R1922054)		
Branch : IT Year/Sem: II/II	Date : 06/04/21	AY:2020-2021
Revision No : 00	Prepared By : A.Veda Sri	Approved By : HOD

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I	**An Overview of Database Management**		
CO1: Describe a relational database and object-oriented database.			
TB : Introduction to Database Systems, CJ Date, Pearson			
1.	Introduction	06/04/21	
2.	What is Database System	07/04/21	
3.	What is Database	08/04/21	
4.	Why Database	09/04/21	
5.	Data Independence	10/04/21	
6	Relation Systems and Others	11/04/21	
7	Schema and Instance	12/04/21	Lecture interspersed with discussions
8	The Three Levels of Architecture- The External Level	15/04/21	
9	The Conceptual Level, the Internal Level	16/04/21	
10	Mapping of levels	17/0421	
11	Database Administrator	19/04/21	
12	The Database Management Systems	20/04/21	
13	Client/Server Architecture	22/04/21	

Course Title: Data Base Management System (R1922054)		
Branch : IT Year/Sem: II/II	Date : 06/04/21	AY:2020-2021
Revision No : 00	Prepared By : A.Veda Sri	Approved By : HOD

Tools : Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –II	**Relational Model**		
CO2: Describe ER model and normalization for database design.			
TB : Introduction to Database Systems, CJ Date, Pearson			
14	Relational Model: Introduction to relational model	23/04/21	
15	concepts of domain, attribute	24/04/21	
16	tuple, relation	26/04/21	
17	importance of null values	27/04/21	
18	constraints (Domain, Key constraints, integrity constraints)	28/04/21	Lecture interspersed with discussions
19	BASIC SQL: Simple Database schema	29/04/21	
20	data types	01/05/21	
21	table definitions (create, alter)	03/05/21	
22	different DML operations (insert, delete, update)	04/05/21	
23	basic SQL querying (select and project) using where clause	05/05/21	

No. of Periods	TOPIC	Date	Mode of Delivery
24	arithmetic operations	06/05/21	
25	logical operations	07/05/21	
26,27	SQL functions: Date and Time Numeric, String conversion	13/05/21 15/05/21	

UNIT –III   Queries, Constraints, Triggers

CO3: Create, maintain and manipulate a relational database using SQL

TB : . Data base Management Systems, Raghurama Krishnan, Johannes Gehrke, TATA McGraw Hill 3rd Edition

No. of Periods	TOPIC	Date	Mode of Delivery
28	Entity Relationship Model: Introduction	17/05/21	
29	Representation of entities, attributes, entity set	18/05/21	
30	relationship, relationship set	19/05/21	
31	constraints, sub classes, super class,	20/05/21	
32	inheritance, specialization,	21/05/21	
33	generalization using ER Diagrams	21/05/21	
34	SQL: Creating tables with relationship	22/05/21	
35	implementation of key and integrity constraints	24/05/21	Lecture interspersed with discussions
36	nested queries, sub queries	25/05/21	
37	grouping, aggregation, ordering	26/05/21	
38	implementation of different types of joins	27/05/21	
39	view(updatable and non-updatable)	28/05/21	
40	relational set operations.	28/05/21	

Course Title: Data Base Management System (R1922054)		
Branch : IT **Year/Sem: II/II**	**Date : 06/04/21**	**AY:2020-2021**
Revision No : 00	**Prepared By : A.Veda Sri**	**Approved By : HOD**

Tools : Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery

UNIT –IV   Schema Refinement (Normalization)

CO4: Describe ER model and normalization for database design.

TB : Introduction to Database Systems, CJ Date, Pearson

No. of Periods	TOPIC	Date	Mode of Delivery
41	Introduction to Normalization or	29/05/21	
42	schema refinement	31/05/21	
43	Purpose of Normalization	01/06/21	
44	Advantages of Normalization	02/06/21	
45	functional dependency	03/06/21	
46	First normal form	04/06/21	
47	Second normal form	04/06/21	Lecture interspersed with discussions
48	Third normal form	07/06/21	
49	Concept of surrogate key	08/06/21	
50	Boyce-codd normal form(BCNF)	09/06/21	
51	Lossless join	10/06/21	
52	dependency preserving decomposition	11/06/21	
53	Example of dependency preserving	11/06/21	

53	Fourth normal form(4NF)	14/06/21	
54	Fifth normal form(5NF)	15/06/21	

UNIT –V   Transaction Management and Concurrency Control:

CO5: Understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage

TB : Introduction to Database Systems, CJ Date, Pearson

55	Transaction Concept: Transaction State	17/06/21	
56	Implementation of Atomicity and Durability	18/06/21	
57	Concurrent Executions	18/06/21	
58	Serializability, Recoverability	19/06/21	
59	Implementation of Isolation	21/06/21	
60	Testing for Serializability	22/06/21	
61	Failure Classification, Storage	23/06/21	
62	Recovery and Atomicity	24/06/21	Lecture interspersed with discussions
63	Recovery algorithm.	25/06/21	
64	Indexing Techniques: B+ Trees, Search	25/06/21	
65	Insert, Delete algorithms	26/06/21	
66	File Organization and Indexing, Cluster Indexes	28/06/21	
67	Primary and Secondary Indexes	29/06/21	
68	Comparison of File Organizations	29/06/21	
69	Indexes and Performance Tuning	30/06/21	

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PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Tentative Plan:R164212A

Course Title: THEORY OF COMPUTATION

Branch : IT Year/Sem: II/II	Date :06-04-2021	A.Y:2020-2021
Revision No :00	Prepared By : M RAMBHUPAL	Approved By : HOD

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT- I: Finite Automata CO-1:To learn fundamentals of Regular and Context Free Grammars and Languages TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008.
1	Need of Automata theory	06-04-2021	
2	Central Concepts of Automata Theory,	07-04-2021	
3	Automation, Finite Automation,	08-04-2021	
4	Transition Systems, Acceptance of a String,	09-04-2021	
5	DFA, Design of DFAs	12-04-2021	
6	DFA, Design of DFAs	15-04-2021	Lecture interspersed with discussions
7	NFA, Design of NFA	16-04-2021	
8	Equivalence of DFA and NFA,	17-04-2021	
9	Conversion of NFA into DFA	19-04-2021	
10	Tutotrial	20-04-2021	
11	Finite Automata with Є-Transitions	22-04-2021	
12	Minimization of Finite Automata, Finite Automata with output-Mealy and Moore Machines	23-04-2021	
13	Applications and Limitation of Finite Automata.	24-04-2021	

UNIT -II: Regular Expressions

CO-2:To understand the relation between Regular Language and Finite Automata and machines
TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008.

14	Regular Expressions, Regular Sets	27-04-2021	
15	Identity Rules, Equivalence of two RE	28-04-2021	
16	Manipulations of REs, Finite Automata and Regular Expressions	29-04-2021	
17	Inter Conversion, Equivalence between FA and RE,	30-04-2021	
18	Pumping Lemma of Regular Sets	01-05-2021	
19	Closure Properties of Regular Sets, Grammars	03-05-2021	
20		04-05-2021	
21	Classification of Grammars, Chomsky Hierarchy Theorem,	05-05-2021	
22	Right and Left Linear Regular Grammars	06-05-2021	
23	Right and Left Linear Regular Grammars	07-05-2021	
24	Equivalence between RG and FA, Inter Conversion	10-05-2021	
S. No	**Unit / Topic**	**Taught on (Date)**	

UNIT-III: Formal Languages

CO-3: To learn how to design Automata's and machines as Acceptors, Verifiers and Translators
TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008.

25	Formal Languages, Context Free Grammar	11-05-2021	
26	Leftmost and Rightmost Derivations	12-05-2021	
27	Leftmost and Rightmost Derivations	13-05-2021	
28	Parse Trees, Ambiguous Grammars	15-05-2021	
29	Simplification of Context Free Grammars-Elimination of Useless Symbols	17-05-2021	
30	Simplification of Context Free Grammars-Elimination of Useless Symbols	18-05-2021	Lecture interspersed with discussions
31	Simplification of Context Free Grammars-Elimination of Useless Symbols	19-05-2021	
32	ε-Productions	20-05-2021	
33	Unit Productions	21-05-2021	
34	Normal Forms-Chomsky Normal	22-05-2021	
35	Tutorial	24-05-2021	

36	Form Greibach Normal Form	25-05-2021	
37	Form Greibach Normal Form	26-05-2021	
38	Pumping Lemma, Closure Properties	27-05-2021	
39	Pumping Lemma, Closure Properties	28-05-2021	
40	Applications of Context Free Grammars	29-05-2021	
42	Revision	31-05-2021	

UNIT-IV: Pushdown Automata

CO-4: To understand the relation between Contexts free Languages, PDA and TM
CO-5: To learn how to design PDA as acceptor and TM as Calculators
TB: TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008

43	Pushdown Automata, Definition, Model	01-06-2021	
44	Graphical Notation,	02-06-2021	
45	Instantaneous Description, Language Acceptance of Pushdown Automata,	03-06-2021	
46	Instantaneous Description, Language Acceptance of Pushdown Automata,	04-06-2021	
47	Design of Pushdown Automata	05-06-2021	
48	Deterministic and Non – Deterministic Pushdown Automata,	07-06-2021	
49	Tutorial	08-06-2021	
50	Equivalence of PDA and Context Free Grammars	09-06-2021	Lecture interspersed with discussions
51	Equivalence of PDA and Context Free Grammars	10-06-2021	
52	PDA Examples	11-06-2021	
53	PDA Examples	14-06-2021	
54	Two Stack Pushdown Automata	15-06-2021	
55	Two Stack Pushdown Automata	16-06-2021	
56	Application of Pushdown Automata	17-06-2021	

UNIT-V: Turning Machine

CO-4: To understand the relation between Contexts free Languages, PDA and TM
CO-5: To learn how to design PDA as acceptor and TM as Calculators
TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008

57	Turning Machine: Definition, Model	18-06-2021	Lecture interspersed with discussions
58	Representation of TMs-Instantaneous Descriptions	19-06-2021	
59	Transition Tables and Transition Diagrams,	21-06-2021	
60	Language of a TM,	22-06-2021	
61	Design of TMs , Types of TMs	23-06-2021	
62	Tutorial	24-06-2021	
63	Church's Thesis	25-06-2021	
64	Universal and Restricted TM, Decidable and Un-decidable Problems	26-06-2021	
65	Halting Problem of TMs, Post's Correspondence Problem	28-06-2021	
66	Modified PCP, Classes of P and NP	29-06-2021	
67	NP-Hard and NP-Complete Problems	30-06-2021	

Faculty/ Date

HOD/Date 6/4/21

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SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE PLAN: R1632051

Course Title: COMPUTER NETWORKS (R1632051)			
Branch : IT Year/Sem: III/II	Date : 23/03/21		AY: 2020-21
Revision No : 00	Prepared By : M.SURESH BABU, Assistant Professor		Approved By : HOD

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I Introduction: Computer Network **CO1: Understand state-of-the-art in network protocols, architectures, and applications.** **TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.**			
1.	Introduction:	06-04-21	
2.	Network Topologies	07-04-21	
3.	WAN, LAN, MAN. .	08-04-21	
4.	Reference models	09-04-21	Lecture interspersed with discussions
5.	The OSI Reference Model	12-04-21	
6.	the TCP/IP Reference Model -	15-04-21	
7.	A Comparison of the OSI and TCP/IP Reference Models	16-04-21	

UNIT –II Physical Layer **CO2: Process of networking research.** **TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.**			
8	Physical Layer	19-04-21	
9	Fourier Analysis	20-04-21	
10	Bandwidth Limited Signals	22-04-21	
11	The Maximum Data Rate of a Channel	23-04-21	
12	Guided Transmission Media,	26-04-21	
13	Digital Modulation and Multiplexing:	27-04-21	
14	Frequency Division Multiplexing,	28-04-21	Lecture interspersed with discussions
15	Time Division Multiplexing,	29-04-21	
16	Code Division Multiplexing	30-04-21	
17	Data Link Layer Design Issues,	01-05-21	
18	Error Detection and Correction,	03-05-21	
19	Elementary Data Link Protocols,	04-05-21	
20	Sliding Window Protocols	05-05-21	

UNIT –III   The Data Link Layer
CO3: Constraints and thought processes for networking research
TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.

21	The Data Link Layer - Services Provided to the Network Layer	06-05-21	
22	Framing – Error Control –Flow Control	07-05-21	
23	Error Detection and Correction – Error-Correcting Codes	10-05-21	
24	Error Detecting Codes,	11-05-21	
25	Elementary Data Link Protocols- A Utopian Simplex Protocol	12-05-21	Lecture interspersed with discussions
26	A Simplex Stop and Wait Protocol for an Error free channel	13-05-21	
27	A Simplex Stop and Wait Protocol for a Noisy Channel,	17-05-21	
28	Sliding Window Protocols-A One Bit Sliding Window Protocol	18-05-21	
29	A Protocol Using Go-Back-NA	19-05-21	
30	Protocol Using Selective Repeat	20-05-21	

UNIT –IV·   The Medium Access Control Sub layer
CO4: Constraints and thought processes for networking research
TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.

No. of Periods	TOPIC	Date	Mode of Delivery
31	The Medium Access Control Sub layer	21-05-21	
33,34	The Channel Allocation Problem-Static Channel Allocation-Assumptions for Dynamic Channel Allocation	24-05-21 25-05-21	
33,36	Multiple Access Protocols-Aloha-Carrier Sense Multiple Access Protocols	26-05-21, 27-05-21	
37,38	Collision-Free Protocols-Limited Contention Protocols-Wireless LAN Protocols	28-05-21, 29-05-21	
39,40	Ethernet-Classic Ethernet Physical Layer-Classic Ethernet MAC Sub layer Protocol	30-05-21,31-05-21	Lecture interspersed with discussions
41,42,43, 44	Ethernet Performance-Fast Ethernet Gigabit Ethernet-10-Gigabit Ethernet- Retrospective on Ethernet	01-06-21,03-06-21 04-06-21, 06-06-21	
45,46	Wireless Lans-The 802.11 Architecture and Protocol Stack-The 802.11 Physical Layer-The802.11 MAC Sub layer Protocol-The 805.11 Frame Structure-Services	07-06-21,08-06-21	

UNIT –V   The Network Layer Design Issues
CO5: Problem Formulation—Approach—Analysis
TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.

47	Design Issues-The Network Layer Design Issues	09-06-21	
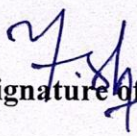
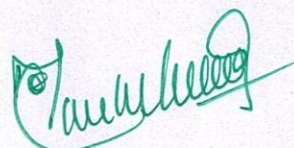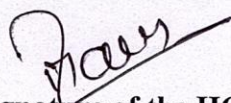|			
48,49	Store and Forward Packet Switching-Services Provided to the Transport layer	10-06-21,11-06-21	
50,51	Implementation of Connectionless Service-Implementation of Connection Oriented Service	11-06-21,14-06-21	
52,53	Comparison of Virtual Circuit and Datagram Networks	14-06-21,15-06-21	Lecture interspersed with discussions
54,55	Routing Algorithms-The Optimality principle, Shortest path Algorithm	15-06-21,16-06-21	
56,57	Congestion Control Algorithms, Approaches to Congestion Control	16-06-21,17-06-21	
58	Traffic Aware Routing-Admission Control	17-06-21	
59	Traffic Throttling-Load Shedding.	18-06-21	

UNIT –VI   Transport Layer & Application Layer

CO6: Problem Formulation—Approach—Analysis.

TB: Tanenbaum and David J Wetherall, Computer Networks, 5th Edition, Pearson Edu, 2010.

60	Transport Layer – The Internet Transport Protocols: Udp	19-06-21	
61	the Internet Transport Protocols: Tc	19-06-21	
62	Application Layer –The Domain Name System:	21-06-21	
63	The DNS Name Space	22-06-21	
64	Resource Records, Name Servers	23-06-21	Lecture interspersed with discussions
65	Electronic Mail: Architecture and Services	24-06-21	
66	The User Agent	25-06-21	
67	Message Formats	26-06-21	
68	Message Transfer	29-06-21	
69	Final Delivery	30-06-21	

Signature of the Faculty

Signature of the HOD

TENTATIVE LESSON PLAN: R1632121

Course Title DATA MINING		
Year /Sem : III/II -IT	**Date : 06-04-2021**	**AY:2020-21**
Revision No :	**Prepared By : S.PRANEETHA Assistant Professor**	**Approved By : HOD**

Tools: Black Board,PPT, Video Lectures

UNIT-I Introduction

CO1: Understand stages in building a Data Warehouse.

TEXT BOOK:

1. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

No.of Periods	Topic	Date	Mode of delivry
1	**Introduction**	06-04-2021	Lecture with discussions
2	Why Data Mining? What Is Data Mining?	07-04-2021	
3	What Kinds of Data Can Be Mined?	08-04-2021	
4	What Kinds of Patterns Can Be Mined?	08-04-2021	
5	Which Technologies Are Used?	12-04-2021	
6	Major Issues in Data Mining.	15-04-2021	
7,8	Data Objects and Attribute Types	15-04-2021,17-04-2021	
9,10	Basic Statistical Descriptions of Data	19-04-2021,20-04-2021	
11,12	Data Visualization	22-04-2021,22-04-2021	
13	Measuring Data Similarity and	24-04-2021	
14	Tutorial	26-04-2021	

UNIT-II:Data Pre-processing

CO2:Gain knowledge about data preprocessing, and proximity measures on different data sets.

TEXT BOOK:

1. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

15	Data Preprocessing	27-04-2021	Lecture with discussions
16,17	Data Cleaning	28-04-2021,29-04-2021	
18	Data Integration	29-04-2021	
19,20	Data Reduction	01-05-2021,03-05-2021	
21,22	Data Transformation	04-05-2021,05-05-2021	
23	Data Discretization	06-05-2021	
24	Tutorial	06-05-2021	

UNIT-III: Classification

CO3:Gain knowledge about basic concepts of classification and Decision Tree algorithm.

TEXT BOOK:

1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.

25	**Introduction toClassification**	10-05-2021	Lecture with discussions
26	Basic concepts	11-05-2021	
27	General approach to solving a classification	12-05-2021	
28	Decision tree induction	13-05-2021	
29	Working of decision tree	13-05-2021	
30,31	Building a decision tree	15-05-2021,17-05-2021	
32	Methods for expressing an attribute test condition	18-05-2021	
33	Measures for selecting the best split	19-05-2021	
34	Algorithm for decision tree induction	20-05-2021	
35	Tutorial	22-05-2021	

UNIT-IV: ClassificationAlterative Techniques

CO4: Gain knowledge about basic concepts of classification and Decision Tree algorithm

TEXT BOOK:

1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier

36	Classification: Alterative Techniques	24-05-2021	Lecture with discussions
37	Bayes' Theorem,	25-05-2021	
38,39	Naïve Bayesian Classification,	26-05-2021,27-05-2021	
40	Bayesian Belief Networks	27-05-2021	
41	Tutorial	29-05-2021	

UNIT-V: Association Analysis: Basic Concepts and Algorithms

CO5: Analyze and evaluate performance of algorithms for Association Rules.

TEXT BOOK:

1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.
2. Data Mining concepts and Techniques, 3/e, Jiawei Han, Michel Kamber, Elsevier .
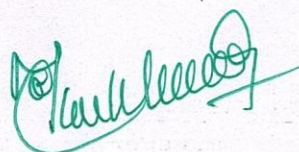
42	**Association Basic concepts**	31-05-2021	Lecture with discussions
43	Problem Defecation,	01-06-2021	
44	Frequent item set generation	02-06-2021	
45	Rule generation	03-06-2021	
46,47	Compact representation of frequent item sets	05-06-2021,07-06-2021	
48	FP-growth algorithm	08-06-2021	
49	Apriori example	09-06-2021	
50	Rule generation example	10-06-2021	
51	FP Growth Example	10-06-2021	
52	Analysis of FP Growth	14-06-2021	
53	Tutorial	15-06-2021	

UNIT-VI:Cluster Analysis: Basic Concepts and Algorithms

CO6: Be able to understand Clustering techniques like K-Means, bisecting K-Means and additional issues of K-Means. Become familiar with Hierarchical clustering and density based clustering

TEXT BOOK:

1. Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson.

54	Basic concepts, cluster analysis	16-06-2021	Lecture with discussions
55	Different types of clustering	17-06-2021	
56	Different types of clusters	17-06-2021	
57,58	K-means,The basic K-means algorithm	19-06-2021,21-06-2021	
59	K-means: Additional issues, Bisection k-means	22-06-2021	
60	k-means and different types of clusters strengths and weaknesses	23-06-2021	
61	K-means as an optimization problem	24-06-2021	
62	Hierarchical clustering	24-06-2021	
63,64	Agglomerative hierarchical clustering algorithm, specific techniques	26-06-2021,28-06-2021	
65	DBSCAN, Traditional Density: Center-based	29-06-2021	
66	Tutorial	30-06-2021	

S. Praneetha
Faculty/ Date

HOD/Date 6|4|21

TENTATIVE PLAN: R1632122

Course Title: WEB TECHNOLOGIES(R1632122)			
Branch : IT Year/Sem: III/II	Date : 6|4|21		AY:2020-21
Revision No : 00	Prepared By : G D K KISHORE		Approved By : HOD
Tools : Black board, PPTs, Moodle			

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I HTML **CO1:** Analyze a web page and identify its elements and attributes. **TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson**			
1.	**Introduction**	06-04-21	
2.	Simple HTML Tags,Lists	07-04-21	
3.	Tables	08-04-21	
4.	Images,Frames	09-04-21	
5.	Forms	12-04-21	
6.	Introduction to CSS, Selector, ID selecto, Examples	15-04-21	Lecture interspersed with discussions
7.	Tutorial Hour	16-04-21	
8.	Types of Style sheets, Examples	19-04-21	
9.	Introduction to java script, variables,functions	20-04-21	
10.	Objects in Javascript	22-04-21	
11.	Tutorial Hour	23-04-21	
12.	Dynamic html with java script + Events	26-04-21	
UNIT –II XML **CO2:** Create web pages using XHTML and Cascading Styles sheets **TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson**			
13	Introduction to XML, Working Rules	27-04-21	
14	DTD	28-04-21	
15	Tutorial Hour	29-04-21	
16	XSD(Schema Definition)	30-04-21	
17,18	Document Object Model	01-05-21 03-05-21	Lecture interspersed with discussions
19,20	XSLT, DOM VS SAX	04-05-21, 05-05-21	
UNIT –III AJAX **CO3: Build dynamic web pages** **CO6: write simple client-side scripts using AJAX** **TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson**			
21	Introduction to AJAX	06-05-21	
22	Tutorial Hour	07-05-21	
23	AJAX XMLHttpRequest,, Response	10-05-21	
24	AJAX Events	11-05-21	
25	Integrating PHP and AJAX	12-05-21	Lecture interspersed with discussions
26	Tutorial Hour	13-05-21	
27,28	Consuming WEB services in AJAX(UDDI,)	17-05-21, 18-05-21	
29,30	SOAP, WSDL	19-05-21, 20-05-21	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –IV	**PHP**		
CO4: Build web applications using PHP.			
TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson			

No. of Periods	TOPIC	Date	Mode of Delivery
31	**UNIT-IVIntroduction to PHP, Environment Setup, creating and Running PHP Script**	21-05-21	
32,33	Working with variables and constants, data types and operators,Examples	24-05-21 25-05-21	
34,35	Controlling program flow—Conditional statements, Control statements	26-05-21, 27-05-21	Lecture interspersed with discussions
36,37	Tutorial Hour	28-05-21, 29-05-21	
38,39	Arrays	30-05-21, 31-05-21	
40,41,42	functions	01-06-21, 03-06-21 04-06-21,	
43,44	Working with databases	06-06-21, 07-06-21 ,	
45	Working with databases	08-06-21	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –V	**PERL**		
CO5: Programming through PERL and Ruby			
TB : Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson			
46	**Introduction to PERL and Environment setup**	09-06-21	
47,48	Tutorial Hour	10-06-21, 11-06-21	
49,50	Perl language elements	11-06-21, 14-06-21	
51,52	Interface with CGI	14-06-21, 15-06-21	
53,54	A from to mail program	15-06-21, 16-06-21	Lecture interspersed with discussions
55,56	Tutorial Hour	16-06-21, 17-06-21	
57	Simple page search	17-06-21	
58	Simple page search	18-06-21	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –VI	**RUBY**		
CO5: Programming through PERL and Ruby			
TB : Software Testing- Yogesh Singh, Camebridge			
59	**Introduction to Ruby, Environment Setup**	19-06-21	
60	Variables, Types	19-06-21	
61	Simple I/O	21-06-21	
62	Control Flow	22-06-21	
63	Arrays	23-06-21	Lecture interspersed with discussions
64	Hashes	24-06-21	
65	Methods	25-06-21	
66	Classes	26-06-21	
67	Iterator	29-06-21	
68	Pattern matching	30-06-21	

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TENTATIVE PLAN: R1632054

Course Title: Software Testing Methodologies(R1632054)			
Branch : IT **Year/Sem: III/II**	**Date : 06/04/21**		**AY:2020-2021**
Revision No : 00	**Prepared By : A.Veda Sri**		**Approved By : HOD**

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I Flow graphs and Path testing			
CO1: Understand the basic testing procedures.			
TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.			
1.	**Introduction**	06/04/21	
2.	Purpose of Testing	06/04/21	
3.	Dichotomies	07/04/21	
4.	Model for Testing	09/04/21	
5.	Consequences of Bugs	10/04/21	
6.	Taxonomy of Bugs	11/04/21	Lecture interspersed with discussions
7.	**Flow graphs and Path testing:** Basics Concepts of Path Testing	12/04/12	
8.	Predicates Path Predicates	16/04/21	
9.	Achievable Paths	19/04/21	
10.	Path Sensitizing	20/04/21	
11.	Path Instrumentation	20/04/21	
12.	Application of Path Testing	23/04/21	

Course Title: Software Testing Methodologies(R1632054)			
Branch : IT **Year/Sem: III/II**	**Date : 06/04/21**		**AY:2020-2021**
Revision No : 00	**Prepared By : A.Veda Sri**		**Approved By : HOD**

Tools : Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –II Transaction Flow Testing, Dataflow testing			
CO2: Able to support in generating test cases and test suites			
TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.			
13	**Transaction Flow Testing:** Transaction Flows	24/04/21	
14	Transaction Flow Testing Techniques	26/04/21	Lecture interspersed with discussions
15	**Dataflow testing:** Basics of Dataflow Testing	27/04/21	
16	Strategies in Dataflow Testing	27/04/21	
17	Application of Dataflow Testing	27/04/21	
UNIT –III Domain Testing ,Paths, Path products and Regular expressions			
CO3: Able to support in generating test cases and test suites			
TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.			
18	**Domain Testing:** Domains and Paths	28/04/21	
19	Nice & Ugly Domains	30/04/21	
20	Domain testing	01/05/21	Lecture interspersed with discussions
21	Domains and Interfaces Testing	03/05/21	
22	Domains and Testability	04/05/21	
23	**Paths, Path products and**	04/05/21	

24	Regular expressions	05/05/21	
25	Path Products & Path Expression	07/05/21	
26	Reduction Procedure	14/05/21	
27	Applications	15/05/21	
28	Regular Expressions	17/05/21	
29	Flow Anomaly Detection	18/05/21	

Course Title: Software Testing Methodologies(R1632054)		
Branch : IT **Year/Sem: III/II**	**Date : 06/04/21**	**AY:2020-2021**
Revision No : 00	**Prepared By : A.Veda Sri**	**Approved By : HOD**

Tools : Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery

UNIT –IV   Syntax Testing, Logic Based Testing

CO4: Able to test the applications manually by applying different testing methods and automation tools.

TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.

No. of Periods	TOPIC	Date	Mode of Delivery
30	A Grammar for formats	18/05/21	
31	Test Case Generation	19/05/21	
32	Implementation and Application	21/05/21	
33	Testability Tips	22/05/21	
34	**Logic Based Testing:** Overview	24/5/21	Lecture interspersed with discussions
35	Decision Tables	25/05/21	
36	Path Expressions	25/05/21	
37	KV Charts:2&3variables	26/05/21	
38	4variables	28/05/21	
39	5 variables,6variables	29/05/21	
40	Specifications	31/05/21	

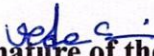**UNIT –V   State, State Graphs and Transition Testing, Graph Matrices and Application**

CO5: Able to test the applications manually by applying different testing methods and automation tools.

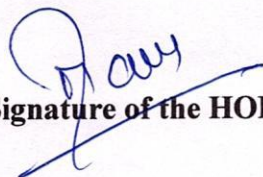**TB : Software testing techniques – Boris Beizer, Dreamtech, second edition.**

No. of Periods	TOPIC	Date	Mode of Delivery
41	State Graphs	01/06/21	
42	Good & Bad State Graphs	02/06/21	
43	State Testing	04/06/21	
44	Testability Tips	07/06/21	
45	**Graph Matrices and Application:**-Motivational overview	08/06/21	Lecture interspersed with discussions
46	Matrix Of Graph	08/06/21	
47	Relations	09/06/21	
48	Power Of A Matrix	11/06/21	
49	Node Reduction Algorithm	14/06/21	

UNIT –VI   Software Testing Tools
CO6: Apply tools to resolve the problems in Real time environment
TB : Software Testing- Yogesh Singh, Camebridge

50	Manual and automatic testing	15/06/21	
51	Automated Testing	15/06/21	
52	Concepts of testing Automation	16/06/21	
53	Introduction to list of tools like Win runner	18/06/21	
54	Load Runner	19/06/21	
55	J meter	21/06/21	
56	About Win Runner	22/06/21	
57	Using Win runner	22/06/21	Lecture interspersed with discussions
58	Checkpoints	23/06/21	
59	Mapping the GUI	25/06/21	
60	Recording Test, Working with Test	26/06/21	
61	Enhancing Test	28/06/21	
62	Test Script Language	29/06/21	
63	Running and Debugging Tests, Analyzing Results	29/06/21	
64	Rapid Test Script Wizard.	30/06/21	

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TENTATIVE PLAN: R163213B

Course Title: Operations Research		
Branch : IT Year/Sem : III/II Revision No:00	Date : 06-04-21	**AY:2020-21**
	Prepared By : Y.V.Nandini	Approved By : HOD

Tools: Blackboard,PPT's,Online

No. of Periods	Topic	Date	Mode of Delivery
UNIT I:Introduction To Operations Research: CO1: Methodology of Operations Research.		
1.	Definition	06-04-21	Lecture interspersed with discussions
2.	Scope	07-04-21	
3.	Objectives	08-04-21	
4.	Phases	09-04-21	
5.	Models And Limitations Of Operations Research	12-04-21	
6.	**Linear Programming Problem:** Formulation Of LPP	15-04-21	
7.	Graphical Solution Of LPP.	16-04-21	
8.	Simple Method	19-04-21	
9.	Artificial Variables	20-04-21	
10.	Big-M Method	22-04-21	
11.	Two-Phase Method	23-04-21	
12.	Degeneracy Solutions	26-04-21	
13.	Unbound Solutions	27-04-21	
UNIT II: Transportation Problem CO2:Linear programming: solving methods, duality, and sensitivity analysis. CO3:Integer Programming.		
14.	Formulation	28-04-21	Lecture interspersed with discussions
15.	Balanced Transportation Problem	29-04-21	
16.	Unbalanced Transportation Problem.	30-04-21	

17,18	**Finding Basic Feasible Solutions**: Northwest Corner Rule,	01-05-21 03-05-21	
19	Least Cost Method	04-05-21,	Lecture interspersed with discussions
20	Vogel's Approximation Method	06-05-21	
21	Optimality Test: The Stepping Stone Method	07-05-21	
22	MODI Method	10-05-21	

UNIT-III:Assignment Model

CO4:Network flows.
CO5:Multi-criteria decision techniques.
CO6:Decision making under uncertainty and risk.

23	Formulation	11-05-21	
24	Hungarian Method For Optimal Solution	12-05-21	
25	Solving Unbalanced Problem	13-05-21	
26,27	Traveling Salesman Problem	17-05-21, 18-05-21	
28,29	Assignment Problem Sequencing Models	19-05-21, 20-05-21	Lecture interspersed with discussions
30	**Solution Of Sequencing Problem**	21-05-21	
31	Processing N Jobs Through 2 Machines	24-05-21	
32,33	Processing N Jobs Through 3Machines	26-05-21, 27-05-21	
34,35	Processing 2 Jobs Through M Machines	28-05-21, 29-05-21	
36,37	Processing N Jobs Through M Machines	30-05-21, 31-05-21	

UNIT-IV: Dynamic Programming

CO6:Decision making under uncertainty and risk.

CO7:Game theory. Dynamic programming

38,39	Characteristics Of Dynamic Programming	01-06-21, 03-06-21	
40,41	Dynamic Programming Approach For Priority Management Employment Smoothening,	06-06-21, 07-06-21 ,	Lecture interspersed with discussions
42	Capital Budgeting,	08-06-21	

43	Stage Coach/Shortest Path	09-06-21	
44,45	Cargo Loading And Reliability Problems Games Theory	10-06-21, 11-06-21	
46,47	Competitive Games	11-06-21, 14-06-21	
48,49	Rectangular Game	14-06-21, 15-06-21	
50,51	Saddle Point, Minimax (Maximin) Method Of Optimal Strategies	15-06-21, 16-06-21	Lecture interspersed with discussions
52,53	Value Of The Game	16-06-21, 17-06-21	
54	Solution Of Games With Saddle Points,	17-06-21	
55	Dominance Principle	18-06-21	
56	Rectangular Games Without	19-06-21	

UNIT-V:Replacement Models

CO4:Network flows.
CO5:Multi-criteria decision techniques.
CO6:Decision making under uncertainty and risk.

57	Replacement Of Items That Deteriorate Whose Maintenance Costs Increase With Time Without Change In The Money Value.	19-06-21	Lecture interspersed with discussions
58,59	**Replacement Of Items That Fail Suddenly**: Individual Replacement Policy, Group Replacement Policy	21-06-21, 22-6-21	

UNIT-VI:Inventory Models

60	Inventory Costs	23-06-21	
61	Models With Deterministic Demand-Model	24-06-21	
62,63	(A) Demand Rate Uniform And Production Rate Infinite, Model	25-06-21, 26-06-21	Lecture interspersed with discussions
64	(B) Demand Rate Non-Uniform And Production Rateinfinite, Model	29-06-21	
65	(C) Demand Rate Uniform And Production Rate Finite.	30-06-21	

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TENTATIVE LESSON PLAN: R1642051

Course Title: DISTRIBUTED SYSTEM			
Section : IV-II	**Date : 06-04-2021**		**A.Y:2020-21**
Revision No : 00	**Prepared By : G.SRILAKSHMI**		**Approved By : HOD**

Tools : Black board, PPTs, Moodle
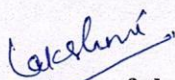
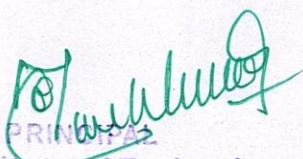| No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I Characterization of Distributed Systems, System Models			
CO1: Develop a familiarity with distributed file systems			
TEXT BOOK:			
George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
1	Characterization of Distributed Systems	06-04-2021	
2	Examples of Distributed Systems	07-04-2021	
3	Trends in distributed systems	08-04-2021	
4	Resource Sharing and the Web	09-04-2021	
5	Challenges	12-04-2021	
6	**System Models:** Introduction	15-04-2021	Lecture interspersed with discussions
7	Architectural Models, Software Layers	16-04-2021	
8	System Architecture, variations	17-04-2021	
9	Interface and Objects	19-04-2021	
10	Design Requirements for Distributed Architectures	20-04-2021	
11	Fundamental Models-Interaction Model	22-04-2021	
12	Failure Model	23-04-2021	
13	Security Model	24-04-2021	
14	Tutorial classes	26-04-2021	
UNIT-II Interprocess Communication			
CO2:			
Describe important characteristics of distributed systems and the salient architectural features of such systems			
TEXT BOOK:			
George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
15	**Interprocess Communication:** Introduction	27-04-2021	
16	The API for the Internet Protocols: The Characteristics of Interprocess communication	28-04-2021	
17	Sockets	29-04-2021	
18	Udp datagram communication	30-04-2021	
19	TCP Stream Communication	01-05-2021	Lecture interspersed with discussions
20	External Data Representation and Marshalling;	03-05-2021	
21	Client Server Communication;	04-05-2021	
22	Group Communication- IP Multicast implementation of group communication	05-05-2021	
23	Reliability and Ordering of Multicast.	06-05-2021	
24	Tutorial classes	07-05-2021	

Course Title: DISTRIBUTED SYSTEM				
Section : IV-II	**Date : 06-04-2021**		**A.Y:2020-21**	
Revision No : 00	**Prepared By : G.SRILAKSHMI**		**Approved By : HOD**	
Tools : Black board, PPTs, Moodle				
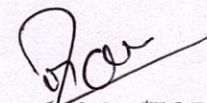
No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-III: Distributed Objects and Remote Invocation			
CO3:			
Describe important characteristics of distributed systems and the salient architectural features of such systems			
TEXT BOOK:			
George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
25	**Distributed Objects and Remote Invocation:** Introduction	10-05-2021	Lecture interspersed with discussions
26	Communication between Distributed Objects-Object Model	11-05-2021	
27	Distributed Object Model	12-05-2021	
28	Design Issues for RMI	13-05-2021	
29	Implementation of RMI	15-05-2021	
30	Distributed Garbage Collection	17-05-2021	
31	Remote Procedure Call	18-05-2021	
32	Events and Notifications	19-05-2021	
33	Case Study: JAVA RMI	20-05-2021	
34	Tutorial classes	21-05-2021	
UNIT-IV Operating System Support			
CO4:			
Describe the features and applications of important standard protocols which are used in distributed systems			
TEXT BOOK:			
George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
35	**Operating System Support:** Introduction	22-05-2021	Lecture interspersed with discussions
36	The Operating System Layer	24-05-2021	
37	Protection	25-05-2021	
38	Processes and Threads: –Address Space	26-05-2021	
39	Creation of a New Process	27-05-2021	
40	Threads.	28-05-2021	
41	Tutorial classes	29-05-2021	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-V Distributed File Systems, Coordination and Agreement CO 5: Describe the features and applications of important standard protocols which are used in distributed systems **TEXT BOOK:** George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
42	**Distributed File Systems:** Introduction	31-05-2021	
43	File Service Architecture	01-06-2021	
44	Peer-to-Peer Systems: Introduction	02-06-2021	
45	Napster and its Legacy	03-06-2021	
46	Peer-to-Peer Middleware	04-06-2021	
47	Routing Overlays	05-06-2021	
48	Tutorial classes	07-06-2021	Lecture interspersed with discussions
49	**Coordination and Agreement:** Introduction	08-06-2021	
50	Distributed Mutual Exclusion	09-06-2021	
51	Algorithm for Mutual Exclusion	10-06-2021	
52	Elections(ring based)	11-06-2021	
53	The Bully algorithm	14-06-2021	
54	Multicast Communication.	15-06-2021	
55	Ordered multicast	16-06-2021	
56	Tutorial classes	17-06-2021	
UNIT-VI Transactions & Replications **CO6:** Gaining practical experience of inter process communication in a distributed environment. **TEXT BOOK:** George Coulouris, Jean Dollimore, Tim Kindberg, "Distributed Systems- Concepts and Design", Fourth Edition, Pearson Publication			
57	**Transactions & Replications:** Introduction	18-06-2021	
58	System Model	19-06-2021	
59	Group Communication	21-06-2021	
60	Time ordering concurrency control	22-06-2021	
61	Optimistic concurrency control	23-06-2021	
62	Distributed Dead Locks	24-06-2021	Lecture interspersed with discussions
63	Transaction priorities	25-06-2021	
64	Transaction Recovery; Replication-Introduction	26-06-2021	
65	Passive (Primary) Replication	28-06-2021	
66	Active Replication.	29-06-2021	
67	Tutorial classes	30-06-2021	

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Course Title: MANAGEMENT SCIENCE		

Section : IV-II	Date : 06-04-2021	A.Y:2020-21
Revision No : 00	Prepared By : SK SHAFIULLAH	Approved By : HOD

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I: INTRODUCTION TO MANAGEMENT			
CO1:: Able to understand the concept and nature of management, evaluation of management theories, motivation and leadership styles			
TEXT BOOK :: Dr. A. R. Aryasri, Management Science' TMH 2011			
1	Introduction to management	06-04-2021	Lecture interspersed with discussions
2	Nature of management	07-04-2021	
3	Importance of management	08-04-2021	
4	Generic function of management	09-04-2021	
5	Evaluation of management thoughts	12-04-2021	
6	Motivation theories	15-04-2021	
7	Decision making process	16-04-2021	
8	Designing organization structure	17-04-2021	
9	Principles & types of organization	19-04-2021	
10	Organization typology	20-04-2021	
11	Global leadership	22-04-2021	
12	Principals of Management	23-04-2021	
13	Types of management	24-04-2021	
14	Tutorial classes	26-04-2021	
UNIT –II : OPERATIONS MANAGEMENT			
CO2:: Able to equip with concepts of operations, project management and inventory control			
TEXT BOOK :: Dr. A. R. Aryasri, Management Science' TMH 2011			
15	Operations Management introduction	27-04-2021	Lecture interspersed with discussions
16	Principles of operations management	28-04-2021	
17	Types of operations Management	29-04-2021	
18	Work study, StatisticalQuality Control	30-04-2021	
19	Control charts (P-chart, R-chart, and C-chart)	01-05-2021	
20	Simple problems	03-05-2021	
21	Material Management: Need for Inventory control	04-05-2021	
22	EOQ, ABC analysis	05-05-2021	
23	Types of ABC analysis (HML, SDE, VED, and FSN analysis).	06-05-2021	
24	Tutorial classes	07-05-2021	

Course Title: MANAGEMENT SCIENCE			
Section : IV-II	Date : 06-04-2021		A.Y:2020-21
Revision No : 00	Prepared By : SK SHAFIULLAH		Approved By : HOD
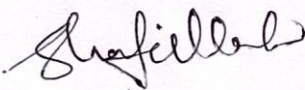
Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-III: FUNCTIONAL MANAGEMENT CO3:: Able to understand the different functional areas in an organization and their responsibilities- product life cycle and channels of distribution TB :: Dr. A. R. Aryasri, Management Science' TMH 2011			
25	Functional management Introduction	10-05-2021	Lecture interspersed with discussions
26	Concept of HRM, HRD and PMIR	11-05-2021	
27	Functions of HR Manager	12-05-2021	
28	Wagepayment plans	13-05-2021	
29	(Simple Problems)	15-05-2021	
30	Job Evaluation and Merit Rating, Functions of Marketing	17-05-2021	
31	Marketing strategies based on product Life Cycle	18-05-2021	
32	Channels of distributions	19-05-2021	
33	Operationalizing change through performance management	20-05-2021	
34	Tutorial classes	21-05-2021	
UNIT-IV PROJECT MANAGEMENT CO4:: Able to equip with different techniques in project management, i.e. PERT and CPM and project crashing TEXT BOOK :: Dr. A. R. Aryasri, Management Science' TMH 2011			
35	Introduction to PERT and CPM	22-05-2021	Lecture interspersed with discussions
36	Development of Network	24-05-2021	
37	Difference between PERT andCPM	25-05-2021	
38	Identifying Critical Path	26-05-2021	
39	Probability, Project Crashing	27-05-2021	
40	Simple Problems	28-05-2021	
41	Tutorial classes	29-05-2021	
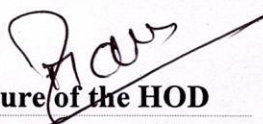
Course Title: MANAGEMENT SCIENCE			
Section : IV-II	**Date : 06-04-2021**		**A.Y:2020-21**
Revision No : 00	**Prepared By : SK SHAFIULLAH**		**Approved By : HOD**

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-V: Strategic Management			
CO5:: Able to equip with the concept and practical issues relating to strategic management			
TEXT BOOK :: Dr. A. R. Aryasri, Management Science' TMH 2011			
42	Strategic Management: Introduction	31-05-2021	Lecture interspersed with discussions
43	Vision statement meaning and features	01-06-2021	
44	Mission characteristics	02-06-2021	
45	Goals and its features	03-06-2021	
46	Strategy nature and types	04-06-2021	
47	Elements of Corporate Planning Process	05-06-2021	
48	Environmental Scanning	07-06-2021	
49	SWOT analysis	08-06-2021	
50	Steps in Strategy Formulation	09-06-2021	
51	Implementation of Strategy	10-06-2021	
52	Generic Strategy Alternatives	11-06-2021	
53	Global strategies	14-06-2021	
54	Theories of Multinational Companies	15-06-2021	
55	Tutorial classes	16-06-2021	
UNIT- VI: CONTEMPORARY MANAGEMENT PRACTICES			
CO6:: Able to equip with the contemporary management practices,			
TB:: Dr. A. R. Aryasri, Management Science' TMH 2011			
56	Contemporary Management Practice Introduction	17-06-2021	Lecture interspersed with discussions
57	Basic concepts of MIS	18-06-2021	
58	Material Requirement planning	19-06-2021	
59	Justin- Time(JIT) system	21-06-2021	
60	Total Quality Management(TQM)	22-06-2021	
61	Six sigma	23-06-2021	
62	Capability Maturity Model(CMM) Levies	24-06-2021	
63	Supply Chain Management	25-06-2021	
64	Enterprise Resource Planning (ERP)	26-06-2021	
65	Business Process outsourcing(BPO),	28-06-2021	
66	Business process Re-engineering	29-06-2021	
67	Bench Marking	29-06-2021	
68	Balanced Score Card	30-06-2021	
69	Tutorial classes	30-06-2021	

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TENTAIVE PLAN: R1642121

Course Title: MANAGEMENT INFORMATION SYSTEMS(R1642121)			
Section : IT Year /Sem : IV/II	Date : 06|4|21		AY: 2020-21
Revision No :	Prepared By : M.SURESH BABU, Assistant Professor		Approved By : HOD

Tools: Black Board , PPT , Video Lectures

UNIT-I: Information System And Organization.

CO1: MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

No.of Periods	Topic	Date	Mode of delivry
1	Matching the Information System Plan to the Organizational Strategic Plan	06-04-2021	Lecture with discussions
2	Identifying Key Organizational Objective	07-04-2021	
3	Processes and Developing an Information System Development	08-04-21	
4,5	User role in Systems Development Process.	09-04-21,12-04-2021	
6,7	Maintainability in System Design.	15-04-2021,16-04-21, 19-04-21	
8	Recoverability in System Design.	20-04-21	

UNIT-II:Representation And Analysis Of System Structure

CO2: MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

9,10	Models for Representing Systems	22-04-21,23-04-21	Lecture with discussions
11,12	Mathematical	26-04-21,27-04-21	
13	Graphical, Hierarchical organization Chart	28-04-21	
14	Information Flow,	29-04-21	
15	Process Flow	30-04-21	
16	Methods and Heuristics	30-04-21	
17	Information Architecture	01-05-21	
18	Application of System Representation to Case Studies.	03-05-21	

UNIT-III: Systems, Information and Decision Theory

CO3: MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004...

19	Information Theory	04-05-21	Lecture with discussions
20	Information Content and Redundancy	05-05-21	
21,22	Classification and Compression	06-05-21,07-05-21	
23	Summarizing and Filtering	10-05-21	
24	Inferences and Uncertainty.	11-05-21	

25	Inferences and Uncertainty.	12-05-21	

UNIT-IV: Identifying Information needed to Support Decision Making

CO4: MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

26	Identifying Information needed to Support Decision Making	13-05-21	
27,28	Human Factors	17-05-21,18-05-21	Lecture with discussions
29,30	Problem characteristics	19-05-21,20-05-21	
31	Information System Capabilities in Decision Making	21-05-21	

UNIT-V: Information System Application

CO5: MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

32	Transaction Processing Applications	24-05-21	
33,34	Basic Accounting Application	25-05-21,26-05-21	
35	Applications for Budgeting and Planning	27-05-21	
36	Other use of Information Technology	28-05-21	
37,38,39, 40	Automation – Word Processing Electronic Mail – Evaluation Remote Conferencing and Graphics	31-05-21,01-06-21 02-06-21,03-06-21	Lecture with discussions
41,42,43, 44	System and Selection –Cost Benefit- Centralized versus Decentralized Allocation Mechanism.	07-06-21,08-06-21 09-06-21,10-06-21	

UNIT-VI: Development And Maintenance Of Information Systems

CO6: MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.

TB: Laudon K.C, Laudon J.P, Brabston M.E, "Management Information Systems - Managing the digital firm", Pearson Education, 2004.

45,46	Systems analysis and design	11-06-21,17-06-21	
47,48	System development life cycle- Limitation	18-06-21,28-06-21	
49,50	End user Development	30-06-21,01-07-2021	Lecture with discussions
51,52	Managing End Users	02-07-2021,03-07-2021	
53,54	off– the shelf software packages	05-07-2021,06-07-2021	
55,56, 57	Outsourcing – Comparison of different methodologies.	07-07-2021 08-07-2021,09-07-2021	

Faculty/ Date 06/4/21

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HOD/Date 6/4/21

TENTATIVE PLAN:R164212A

Course Title: CYBER SECURITY

Section : IT Year/Sem: IV/II	Date :06-04-2021	A.Y:2020-2021
Revision No :00	Prepared By : M RAMBHUPAL	Approved By : HOD

Tools : Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
-UNIT	UNIT- I: Introduction to Cybercrime		

CO-1: The Cyber security Course will provide the students with foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies
CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.
TB: Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

No. of Periods	TOPIC	Date	Mode of Delivery
1	Introduction,	06-04-2021	
2	Cybercrime: Definition and Origins of the Word	07-04-2021	
3	Cybercrime and Information Security	08-04-2021	
4	Who are Cybercriminals?	09-04-2021	
5	Classifications of Cybercrimes	12-04-2021	Lecture interspersed with discussions
6	Cybercrime: The Legal Perspectives,	15-04-2021	
7	Cybercrimes: An Indian Perspective,	16-04-2021	
8	Cybercrime and the Indian ITA 2000	17-04-2021	
9	A Global Perspective on Cybercrimes,	19-04-2021	
10	Cybercrime Era: Survival Mantra for the Netizens	20-04-2021	

UNIT -II: Cyber offenses
CO-1: The Cyber security Course will provide the students with foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies
CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.
TB: Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

No. of Periods	TOPIC	Date	Mode of Delivery
11	How Criminals Plan Them –Introduction	22-04-2021	

S. No	Unit / Topic	Taught on (Date)	
12	How Criminals Plan the Attacks	23-04-2021	Lecture interspersed with discussions
13	Social Engineering,	24-04-2021	
14	Tutorial	26-04-2021	
15	Cyber stalking,	27-04-2021	
16	Cyber cafe and Cybercrimes	28-04-2021	
17	Botnets: The Fuel for Cybercrime	29-04-2021	
18	Attack Vector Cloud Computing.	30-04-2021	
19	Attack Vector Cloud Computing	01-05-2021	

S. No	Unit / Topic	Taught on (Date)	

UNIT-III: Cybercrime Mobile and Wireless Devices

CO-1:The Cyber security Course will provide the students with foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies

CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.

TB:Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

S. No	Unit / Topic	Taught on (Date)	
20	Introduction	03-05-2021	Lecture interspersed with discussions
21	Proliferation of Mobile and Wireless Devices,	04-05-2021	
22	Trends in Mobility	05-05-2021	
23	Credit Card Frauds in Mobile and Wireless Computing Era,	06-05-2021	
24	Security Challenges Posed by Mobile Devices	07-05-2021	
25	Registry Settings for Mobile Devices	10-05-2021	
26	Authentication Service Security Mobile/Cell Phones	11-05-2021	
27	Tutorial	12-05-2021	
28	Authentication Service Security Mobile/Cell Phones	13-05-2021	
29	Mobile Devices: Security Implications for Organizations	15-05-2021	
30	Organizational Measures for Handling Mobile	17-05-2021	
31	Organizational Security Policies and Measures in Mobile Computing Era	18-05-2021	
32	Laptops.	19-05-2021	

UNIT-IV: Tools and Methods Used in Cybercrime:

CO-1:The Cyber security Course will provide the students with foundational Cyber Security

principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies

CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.

TB: Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

33	Introduction	20-05-2021	
34	Proxy Servers and Anonymizers,	21-05-2021	
35	Phishing,	22-05-2021	
36	Password Cracking	24-05-2021	
37	Key loggers and Spywares,	25-05-2021	Lecture interspersed with discussions
38	Virus and Worms	26-05-2021	
39	Trojan Horses and Backdoors	27-05-2021	
40	Steganography	28-05-2021	
42	DoS and DDoS Attacks	29-05-2021	
43	SQL Injection	31-05-2021	
44	Buffer Overflow	01-06-2021	
45	Attacks on Wireless Networks	02-06-2021	
46	Phishing and Identity Theft: Introduction	03-06-2021	
47	ID Theft	04-06-2021	
48	Tutorial	05-06-2021	

UNIT-V: Cybercrimes and Cyber security

CO-1: The Cyber security Course will provide the students with foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies

CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.

TB: Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

49	Why Do We Need Cyber laws: The Indian Context	07-06-2021	
50	The Indian IT Act, Challenges to Indian Law and Cybercrime Scenario in India,	08-06-2021	
51	Consequences of Not Addressing the Weakness in Information Technology Act,	09-06-2021	Lecture interspersed with discussions
52	Digital Signatures and the Indian IT Act	10-06-2021	
53	Information Security Planning and Governance	11-06-2021	

54	Tutorial	14-06-2021	
55	Information Security Policy Standards	15-06-2021	
56	Practices, The information Security Blueprint	16-06-2021	
57	Security education	17-06-2021	
58	Training and awareness program, Continuing Strategies.	18-06-2021	

S. No	Unit / Topic	Taught on (Date)	

UNIT-VI: Understanding Computer Forensics:

CO-1:The Cyber security Course will provide the students with foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies

CO2: Students will gain insight into the importance of Cyber Security and the integral role of Cyber Security professionals.

TB:Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives,Nina Godbole, Sunit Belapure, Wiley.

S. No	Unit / Topic	Taught on (Date)	
59	Introduction, Historical Background of Cyber forensics	19-06-2021	
60	Digital Forensics Science , The Need for Computer Forensics	21-06-2021	
61	Cyber forensics and Digital Evidence, Forensics Analysis of E-Mail,	22-06-2021	
62	Digital Forensics Life Cycle , Chain of Custody Concept , Network Forensics,	23-06-2021	
63	Tutorial	24-06-2021	Lecture interspersed with discussions
64	Approaching a Computer Forensics Investigation, Computer Forensics and Steganography	25-06-2021	
65	Relevance of the OSI 7 Layer Model to Computer Forensics,	26-06-2021	
66	Forensics and Social Networking Sites: The Security/Privacy Threats,	28-06-2021	
67	Computer Forensics from Compliance Perspective, Challenges	29-06-2021	
68	Special Tools and Techniques , Forensics Auditing, Ant forensics	30-06-2021	

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