TENTATIVE LESSON PLAN: R1921121

Section: IT		ATHEMATICAL STRU	CIURES		J00
		Date: 17-08-2020		Page N	
Revision N		Prepared By: G.Koteswa	ramma	Appro	ved By: HOD
Tools: Blac					
	nt will be able to c	emonstrate skills in solvin			
No. of		TOPIC	DA	ГE	Mode of Delivery
Periods					
	UNIT – I Math				
1.		ations, Connectives, Well			
	defined Formula				
2. 3.	Truth tables, Tar				
	Equivalence of f				
4.	Normal forms	tological Implications			
5.			Fro	m·	Lecture
6.	Tutorial class	C 1.1	17/08		interspersed
7.		nce for statement	To		with
0	calculus Consistency of r	remises	05/09		discussions
8.	Consistency of p				
9. 10.		c, statement functions			
11.	Tutorial class	c, statement functions			
12.		uantifiers, free & bound			
12.	variables and Q	uantiners, free & bound			
13.		of predicate calculus			
14.	Formulas	of predicate calculus			
17.	UNIT-II:SET	THEODY			
CO2: Stude	The state of the s	to demonstrate knowledge	e of math	ematical	
		using mathematical softwa			
		manipulate and analyze		nerically	
	opriate software.				
15.		ets, operations on Binary			
	sets	, T			
16.		usion and Exclusion			
17.	The state of the s	erties of binary relations			
18.	Relation matrix				
19.		vering, transitive closure			
20.	Tutorial class				
21.	Equivalence rela	ations, compatibility			Lecture
	relations,				interspersed
22.	Partial ordering	relations, Hasse diagram	_		with
23.		ons and composition of	Fro		discussions
	functions		07/0		
24.		s, recursive functions,	70//0		
	permutation fun		30//0	19/20	
25.		ations, compatibility			
	relations,				
26.		ations, compatibility			
	relations,				
27.		ons and composition of			
	functions				
20		s, recursive functions,			
28.	permutation fun				

29.	Algebraic structures: algebraic systems,		
	examples and properties		
30.	Semi groups and monoids, group		*
	definitions, examples.		
31.	Homomorphism, Isomorphism		
32.	groups, sub group definitions, examples		
33.	Group, Subgroup, Abelian Group,		
	Homomorphism, Isomorphism		
34.	Properties of integers, division theorem		
35.	GCD, Euclidean algorithm		
36.	LCM, Testing for prime numbers		
37.	The fundamental theorem of Arithmetic		
38.	Modular Arithmetic, Euler and Fermat's		
	theorems		
	UNIT-3: Combinatorics&number theory		
O4: Stud	ent will be able to communicate effectively ma	athematical ideas	
	oally or in Wrting.		
39.	Basics of counting, permutations		Lecture
40.	Permutations with Repetitions		interspersed
41.	Circular Permutations, Restricted		with
	Permutations		discussions
42.	Combinations, Restricted Combinations		
43.	Tutorial Class	From:	
44.	Generating functions of permutations and	01/10/20 To: 19/10/20	
	combinations		
45.	Binomial and multinomial coefficients		
46.	Binomial and multinomial theorems		
47.	Coloring and chromatic numbers		
48.	Pigeonhole Principle and its allpications		
49.	Revision		
77.	UNIT-4: Recurrence Relations		
CO5: St	adent will be able to manipulate and analyze da	ta generatically	
CO3. 30	and recurrencingly.	ita generativani	Lecture
50.	Generating Functions		interspersed
51.	Function of Sequences		with
	Partial Fractions		discussions
52.	Coefficient of generating functions		
53.		From:	
54.	Recurrence relations	19/10/20	
55.	Formulation as recurrence relations	To:	
56.	Recurrence relations by substitution	31/10/20	
57.	Recurrence relations by Generating	51/10/20	
	functions		
58.	Tutorial class		
59.	Recurrence relations by method of		
	characteristics roots		
The last and the last and the			
60.	Inhomogeneous Recurrence relations		
60. 61.	Recurrence relations by Generating		
	Recurrence relations by Generating functions		
61.	Recurrence relations by Generating functions UNIT-5: Graph Theory		
61. CO6: Stud	Recurrence relations by Generating functions UNIT-5: Graph Theory dent will be able to manipulate and analyze	data graphically	
61. CO6: Stud	Recurrence relations by Generating functions UNIT-5: Graph Theory		
61. O6: Studing App	Recurrence relations by Generating functions UNIT-5: Graph Theory dent will be able to manipulate and analyze ropriate software.	timotions	
61.	Recurrence relations by Generating functions UNIT-5: Graph Theory dent will be able to manipulate and analyze		oossalvõdasti tõite

	Incidence matrices		
64.	Isomorphic graphs		
65.	Paths.circuits, Elerian and Hamiltonian graphs		
66.	Multi graphs, Problems		
67.	Tutorial class	From:	Lecture interspersed with discussions
68.	Planar graphs, Euler's formula	02/11/20 To: 12/11/20	
69.	Chromatic numbers		
70.	Spanning trees, Algorithms for spanning		
70.	trees.		
71.	Breadth first search algorithms		
72.	Depth first search algorithm		
73.	Krushkal,s algorithm		
74.	Prims algorithm		

G. Koteswaramma Faculty Signature Mulled

HOD Signature

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TENTATIVE PLAN: R1921122

Branch:IT エイエ	Date: 2-11-2020	A.Y:	2020-2021	
Revision No : 00	Prepared By : Amritha mishra, Assistant professor		Approved By : HOD	
Tools: Black board	I, PPTs, Moodle	The State of the S		
No. of Periods	TOPIC	Date	Mode of Delivery	
UNIT-I The N	ature of Software			
CO1: Students to	aking this subject will gain software engineering	ng skills in the	following areas	
	그 사람 가는 이 가는 것 같아요. 그는 그렇게 되는 것 같아요. 하는 것 같아요. 그는 그를 다 하는 것 같아.			

1,2	The Unique Nature of WebApps	2/11/20,	
		3/11/20	
3,4	Software Engineering	4/11/20,	
		6/11/20	
5	The Software Process	7/11/20	
6,7	Software Engineering Practice	9/11/20	
		10/11/20	
8	Software Myths	11/11/20	
9	How It All Starts	13/11/20	
10,11	A Generic Process Model	14/11/20,	Lecture interspersed
		16/11/20	with discussions
12	Process Assessment and Improvement	17/11/20	
13	Prescriptive Process Models	18/11/20	
14,15	Specialized Process Models,	19/11/20,	
		20/11/20	
16	The Unified Process,	23/11/20	
17	Personal and Team Process Models	24/11/20	
18	Process Technology.	25/11/20	
19	Tutorial	26/11/20	

No. of Periods	TOPIC	Date	Mode of Delivery
TEXT B	Agility nsform an Object-Oriented Design into high qualit OOK:Software Engineering a practitioner's approx 1cGraw Hill Higher Education.		
20,21	Agility and the Cost of Change, Agile Process	27/11/20 30/11/20	
22,23	Extreme Programming (XP), Other Agile Process Models	1/12/20 2/12/20	Lecture interspersed with
24,25	A Tool Set for the Agile Process, Software Engineering Knowledge	3/12/20 4/12/20	discussions
26	Core Principles, Principles That Guide Each Framework Activity	7/12/20	

27	Requirements Engineering, Establishing the Groundwork,	8/12/20	
28	Eliciting Requirements, Developing Use Cases	9/12/20	
29,30	Building the Requirements Model, Negotiating Requirements	10/12/20 11/12/20	
31	Validating Requirements.	14/12/20	
32	Tutorial	15/12/20	

No. of	TOPIC	Date	Mode of Delivery
Periods			
	I : Requirements Analysis		
	lls to design, implement, and execute test cases at		
	OOK:Software Engineering a practitioner's appr	oach, Roger S. Pre	ssman, Seventh Edition,
McGraw	Hill Higher Education.		
33	Requirements Analysis, Scenario-Based Modeling,	16/12/20	
2425	UML Models That Supplement the Use Case	17/12/20	
34,35		18/12/20	
2627	Data Modeling Concepts,	21/12/20	
36,37		22/12/20	
38	Class-Based Modeling	23/12/20	I actives interesponded
39	Requirements Modeling Strategies	24/12/20	Lecture interspersed with discussions
40	Flow-Oriented Modeling	28/12/20	
41.40	Creating a Behavioral Model	29/12/20	
41,42		30/12/20	
43	Patterns for Requirements Modelling	31/12/20	
44	Requirements Modeling for WebApps.	4/01/21	
45	Tutorial	5/01/21	

No. of	TOPIC	Date	Mode of Delivery				
Periods							
UNIT-IV	JNIT-IV : Design within the Context of Software Engineering						
	mpare conventional and agile software methods						
TEXT B	OOK:Software Engineering, Ian Sommerville, Nir	nth Edition, Pearso	n				
	Design within the Context of Software	6/01/21					
46,47	Engineering	7/01/21					
48	The Design Process, Design Concepts	8/01/21					
49	The Design Model, Software Architecture	11/01/21					
50	Architectural Genres,	18/01/21					
	Architectural Styles	19/01/21	Lecture interspersed with discussions				
51,52		20/01/21	with discussions				
53	Assessing Alternative Architectural Designs	21/01/21					
54	Architectural Mapping Using Data Flow	22/01/21					
55	What Is a Component?,	25/01/21					
56,57	Designing Class-Based Components	27/01/21	os Phat tendo Back (25)				
50,57	And the first of the second se	28/01/21					

P58	Conducting Component-Level Design	29/01/21	
59,60	Component-Level Design for WebApps	01/02/21 02/02/21	
61	Case Study An ATM	02/02/21	
62	Designing Traditional Components, Component-Based Development.	03/02/21	
63	Tutorial	04/02/21	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-	V: The Golden Rules		
TEXT	Compare conventional and agile software r BOOK: re Engineering, Ian Sommerville, Ninth E		on
64,65	User Interface Analysis and Design, Interface Analysis	04/02/21 05/02/21	
66,67	Interface Design Steps, WebApp Interface Design	06/02/21 08/02/21	
68	Design Evaluation, Elements of Software Qualtiy Assurance	09/02/21	
69,70	SQA Tasks, Goals & Metrics, Statistical SQA, Software Reliability	10/02/21 11/02/21	Lecture interspersed with discussions
71	A Strategic Approach to Software Testing, Strategic Issues	12/02/21	with discussions
72,73	Test Strategies for Conventional Software, Test Strategies for Object-Oriented Software	15/02/21 16/02/21	
74	Test Strategies for WebApps,	17/02/21 .	
75	Validation Testing, System Testing,	18/02/21	
76	White-Box Testing, Basis Path Testing	19/02/21	
77	Tutorial	20/02/21	

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TENTATIVE LESSON PLAN: R1921053

Course Title: PY	THON PROGRAMMING	
Branch : IT	Date: 2-11-2020	Page No: 01 of 03
Year / Sem : II/I		
Revision No: 00	Prepared By: G.SRILAKSHMI	Approved By : HOD

Tools: Black board, PPTs, Moodle				
No. of	TOPIC	Date	Mode of Delivery	

No. of Periods Date

UNIT-I Introduction, Data Types, and Expression, Decision Structures and Boolean Logic

CO1:

Develop essential programming skills in computer programming concepts like data types, containers

TEXT BOOK:

1:Fundamentals of Python First Programs, Kenneth. A. Lambert, Cengage

2:Python Programming: A Modern Approach, VamsiKurama, Pearson

. 1	Introduction to Python	2/11/20	
2	Program Development Cycle	3/11/20	
3,4	Input, Processing, and Output, More about Data	4/11/20	
	Output.	5/11/20	
5	Displaying Output with the Print Function, Comments, Variables	6/11/20	
6	Reading Input from the Keyboard	9/11/20	
7	Performing Calculations, Operators	10/11/20	
8	Type conversions, Expressions	11/11/20	
9,10	Strings Assignment, Numeric Data Types	12/11/20	
		13/11/20	Lecture interspersed
11	Character Sets, Using functions and Modules	16/11/20	with discussions
12	Introduction to Decision Structures and Boolean Logic	17/11/20	
13	if, if-else, if-elif-else Statements,	18/11/20	
14	Nested Decision Structures	19/11/20	
15	Logical Operators, Boolean Variables	20/11/20	
16	Introduction Repetition Structures while loop	23/11/20	
17	for loop, Nested Loops	24/11/20	
18	Calculating a Running Total, Input Validation Loops	25/11/20	
19	Tutorial	26/11/20	

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I	Control Statement, Strings and Te	xt Files	
TEXT BO			with any section of the section of t
	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKuran		
19,20	Definite iteration for Loop Formatting Text for output	27/11/20 30/11/20	
21,22	Definite iteration for Loop Formatting Text for output	1/12/20 2/12/20	
23, 24	Conditional Iteration The While Loop	3/12/20 4/12/20	
25	Introduction to Strings and Text Files	7/12/20	Lecture
26	Accessing Character and Substring in Strings	8/12/20	interspersed with discussions
27	Data Encryption	9/12/20	uiscussions
28,29	Strings and Number Systems	10/12/20 11/12/20	
30	String Methods Text Files	14/12/20	
31	Tutorial	15/12/20	
TEXT BO	oding tasks related conditional execution,	loops	
	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura	ma, Pearson	
2:Python 32	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura Introduction to Lists	ma, Pearson 16/12/20	
	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura	ma, Pearson	
32	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura Introduction to Lists	ma, Pearson 16/12/20 17/12/20	
32 33, 34	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20	
32 33, 34 35,36	nentals of Python First Programs, Kenneth. A. La Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions Introduction to Dictionaries	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20 22/12/20	Lecture interspersed with discussions
32 33, 34 35,36 37	Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions Introduction to Dictionaries Design with Function Design with Recursive Functions Case Study Gathering Information from a File System	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20 22/12/20 23/12/20 24/12/20 28/12/20	Lecture interspersed with discussions
32 33, 34 35,36 37 38	Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions Introduction to Dictionaries Design with Function Design with Recursive Functions Case Study Gathering Information from a	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20 22/12/20 23/12/20 24/12/20	
32 33, 34 35,36 37 38 39	Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions Introduction to Dictionaries Design with Function Design with Recursive Functions Case Study Gathering Information from a File System	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20 22/12/20 23/12/20 24/12/20 28/12/20	
32 33, 34 35,36 37 38 39 40,41	Programming: A Modern Approach, VamsiKura Introduction to Lists Defining Simple Functions Introduction to Dictionaries Design with Function Design with Recursive Functions Case Study Gathering Information from a File System Managing a Program's Namespace	ma, Pearson 16/12/20 17/12/20 18/12/20 21/12/20 22/12/20 23/12/20 24/12/20 28/12/20 29/12/20,30/12/20	

UNIT-IV File Operations, Object Oriented Programming, Design with Classes CO4:

Solve coding tasks related to the fundamental notions and techniques used in object-oriented programming

TEXT BOOK:

1:Fundamentals of Python First Programs, Kenneth. A. Lambert, Cengage

2:Python Programming: A Modern Approach, VamsiKurama, Pearson

No. of Periods	TOPIC	Date	Mode of Delivery
63	Tutorial	04/02/21	
61,62	Structuring Classes with Inheritance and Polymorphism	03/02/21,03/02/21	
60	Case Study An ATM	02/02/21	
58,59	Data modeling Examples	01/02/21,02/02/21	
57	Objects and Classes	29/01/21	
55,56	Design with Classes	27/01/21,28/01/21	
54	Programming using Oops support	25/01/21	with discussions
53	Adding and retrieving dynamic attributes	22/01/21	Lecture interspersed
52	overlapping and overloading operators	21/01/21	
50,51	Inheritance	19/01/21,20/01/21	
49	Real time use of class in live projects	18/01/21	
48	Object Oriented Programming	11/01/21	
47	Programming using file operations	8/01/21	
45, 46	File Operations	6/01/21,7/01/21	

UNIT-V: Errors and Exceptions, Graphical User Interfaces

CO5: Solve coding tasks related to Graphical User Interfaces

TEXT BOOK:

1:Fundamentals of Python First Programs, Kenneth. A. Lambert, Cengage

2:Python Programming: A Modern Approach, VamsiKurama, Pearson

64,65	Errors and types of Errors	04/02/21,05/02/21	
66,67	Exceptions, Handling Exceptions	06/02/21,08/02/21	
68	Raising Exceptions	09/02/21	
69,70	User-defined Exception	10/02/21,11/02/21	
71	Defining Clean-up Actions, Redefined Clean-up Actions	12/02/21	Lecture interspersed with discussions
72,73	Graphical User Interfaces	15/02/21,16/02/21	
74	GUI-Based Programs	17/02/21	
75	Introduction to Programming Concepts with Scratch	18/02/21	
76	Tutorial	19/02/21	

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3 | Page

TENTATIVE PLAN: R1921054 Course Title: DATA STRUCTURES

Branch: IT	Date: 02-11-2020	2-11-2020 A.Y:2020-2021	
Revision No: 0	0 Prepared By: Y.V.Nandini	Approved By: HOD	
Tools: Black b	oard, PPTs		
S. No.	Topic	Date	Mode of Delivery
	a Structures, Searching, Sorting		
	ze the properties, interfaces, and behaviors of basic a		
CO2: Discuss t	he computational efficiency of the principal algorithm	ns for sorting & search	ching
TB1: Data Struc	etures Using C. 2nd Edition.Reema Thareja, Oxford		
1	Data Structures Introduction	2/11/20	
2	Definition, Classification of Data Structures	3/11/20	
3	Operations on Data Structures	4/11/20	
4	Abstract Data Type (ADT), Preliminaries of algorithms	5/11/20	
5	Time complexity	6/11/20	
6	Space complexity	7/11/20	
7 .	Searching Introduction	9/11/20	
8	Linear search	10/11/20	Lecture
9	Binary search	11/11/20	intersperse d with
10	Fibonacci search	12/11/20	discussions
11	Insertion sort	13/12/20	
12	Selection sort	14/12/20	
13	Exchange (Bubble sort	16/12/20	
14	Quick sort	17/12/20	
15	Radix sort	18/12/20	
16	Merging (Merge sort)	19/12/20	

1. Data Sti	ructures Using C. 2nd Edition.Reema Thareja, Oxford		
17	Linked List: Introduction	21/12/20	
18	Single linked list,	23/12/20	
19	Representation of Linked list in memory	24/12/20	
20	Operations on Single Linked list-Insertion, Deletion	25/12/20	
21	Applications on Single Linked list: Sparse Matrix Représentation	26/12/20	
22	Advantages and Disadvantages of Single Linked list	27/12/20	Lecture
23	Double Linked list-Insertion, Deletion	28/12/20	interspersed with discussions
24	Circular Linked list-Insertion, Deletion	30/12/20	
25	Differences between SINGLE LINKED LIST AND DOUBLE LINKED LIST	1/12/20	
26	Difference between LINKED LIST AND ARRAYS	2/12/20	
27	Polynomial Expression Representation	3/12/20	
IT-III:OU	JEUES AND STACKS		i i
3: Use ar	rays, records, linked structures, stacks, queues, trees, and G ructures Using C. 2nd Edition.Reema Thareja, Oxford	raphs in writing	programs
	Introduction to Queues, Representation of Queues		
30	using Arrays, Application of Queues	4/12/20	
31	Representation of Queues using Linked list	7/12/20	
32	Circular Queues	8/12/20	
33	Advantages and disadvantages of queues. Deques	9/12/20	

34	Priority Queues	10/12/20	
35	Multiple Queues	11/12/20	
36	Introduction to Stacks, STACKS ADVANTAGES ,PROPERTIES AND DISADVANTAGES.	12/12/20	
37	Array Representation of Stacks	14/12/20	
	Linked list Representation of Stacks working	15/12/20	Lecture
38	Applications-Reversing list, Factorial Calculation	16/12/20	Wich
39	Infix to Postfix Conversion	17/12/20	
40	Evaluating Postfix Expressions.	18/12/20	
41	Advantages and applications of Infix to Postfix	19/12/20	
42	Advantages and applications of Infix to Postfix, ADVANTAGES AND DISADVANTAGES	21/12/20	
43	Applications of QUEUES and STACKS	22/12/20	

UNIT-IV Trees

CO3: Use arrays, records, linked structures, stacks, queues, trees, and Graphs in writing programs

CO4: Demonstrate different methods for traversing trees
TB2: Data Structures and algorithm analysis in C, 2nded, Mark Allen Weiss.

44	Trees Introduction, Terminology in Trees	23/12/20
45	Trees: Basic, Examples of TREES	26/12/20
46	Binary Trees Introduction	28/12/20
47	Differences between Trees and Binary Trees	29/12/20
48	Binary Trees-Properties	30/12/20
49	Representation of Binary Trees using Arrays	31/12/20
50	Representation of Binary Trees using Linked lists	2/1/21
51	Binary Search Trees Introduction	4/1/21
52	Differences between Trees and Binary Trees and	5/1/21

	Binary Search Trees		
53	Basic Concepts, BST Operations	6/1/21	
54	BST Operations: Insertion, Deletion	7/1/21	Lecture
55	Tree Traversals: Inorder	8/1/21	interspersed with
56	Tree Traversals: Preorder	9/1/21	discussions
57	Tree Traversals: Postorder	11/1/21	
58	Applications of Tree Traversals	12/1/21	
59	Expression Trees	18/1/21	
60	Heap sort	19/1/21	
61	Balanced Binary Trees- AVL Trees	20/1/21	
62	AVL Trees	22/1/21	
63	Balanced Binary Trees Insertion, Deletion, Rotations	23/1/21	

UNIT-V Graphs

CO3: Use arrays, records, linked structures, stacks, queues, trees, and Graphs in writing programs TB2: Data Structures and algorithm analysis in C, 2nded, Mark Allen Weiss.

64	Graphs: Basic Concepts	24/1/21	
65	Representations of Graphs-Adjacency Matrix	1/2/21	
66	Representations of Graphs using Linked list	3/2/21	
67	BFT	5/2/21	
68	DFT	7/2/21	Lecture interspersed with discussions
69	Minimum Spanning Tree	8/2/21	
70	Minimum Spanning Tree Using Prims	9/2/21	uiscussions
71	Minimum Spanning Tree Using Kruskals Algorithm	12/2/21	
72	Dijkstra's shortest path	13/2/21	
73	Transitive closure	15/2/21	

		STATE OF STA	
74	Warshall's Algorithm	16/2/21	

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TB:

1) Data Structures Using C. 2nd Edition.Reema Thareja, Oxford.

2) Data Structures and algorithm analysis in C, 2nded, Mark Allen Weiss.

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Tentative Plan:R164212A

Cour	se Title: COMPUTER ORGANIZATIO	N
Branch : IT Year/Sem: II/I	Date :06-04-2021	A.Y:2020-2021
Revision No :00	Prepared By : M RAMBHUPAL	Approved By : HOD

Tools: Black board, PPTs, Moodle

Codes with	No. of Periods	TOPIC	Date	Mode of Delivery
Organization of Computers Historical Perspective, Bus Structures O4-11-2020 Complements, O6-11-2020 Fixed Point Representation Other Binary Codes Tutorial Tutorial Computer Arithmetic: Addition and Subtraction Computer Arithmetic: Addition and Subtraction Multiplication Algorithms, Multiplication Algorithms, Division Algorithms. O4-11-2020 Lecture interspers with discussion Lecture interspers with discussion Lecture interspers with discussion 12-11-2020 Multiplication Codes 13-11-2020 Multiplication Algorithms, 18-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	С О-1: Prii ГВ: Сотј	nciples and the Implementation of Computer Arithmetic	metic	ı, 2008.
3 Data Representation: Data types 05-11-2020 4 Complements, 06-11-2020 5 Fixed Point Representation+++ 09-11-2020 6 Floating – Point Representation. Other Binary Codes 7 Tutorial 12-11-2020 8 Error Detection Codes 13-11-2020 9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	1		02-11-2020	
4 Complements, 06-11-2020 5 Fixed Point Representation+++ 09-11-2020 6 Floating – Point Representation. Other Binary Codes 7 Tutorial 12-11-2020 8 Error Detection Codes 13-11-2020 9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	2		04-11-2020	
5 Fixed Point Representation+++ 6 Floating – Point Representation. Other Binary Codes 7 Tutorial 12-11-2020 8 Error Detection Codes 13-11-2020 9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	3	Data Representation: Data types	05-11-2020	
6 Floating – Point Representation. Other Binary Codes 7 Tutorial 12-11-2020 8 Error Detection Codes 13-11-2020 9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	4	Complements,	06-11-2020	
Floating – Point Representation. Other Binary Codes Tutorial Tutor	5	Fixed Point Representation+++	09-11-2020	
Tutorial 12-11-2020 8 Error Detection Codes 13-11-2020 9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	6		11-11-2020	interspersed
9 Computer Arithmetic: Addition and Subtraction 14-11-2020 10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	7	Tutorial	12-11-2020	discussions
10 Computer Arithmetic: Addition and Subtraction 16-11-2020 11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	8	Error Detection Codes	13-11-2020	
11 Multiplication Algorithms, 18-11-2020 12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	9	Computer Arithmetic: Addition and Subtraction	14-11-2020	
12 Multiplication Algorithms, 19-11-2020 13 Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	10	Computer Arithmetic: Addition and Subtraction	16-11-2020	
Division Algorithms. 20-11-2020 UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	11	Multiplication Algorithms,	18-11-2020	
UNIT -II: Register Transfer Language and Microoperations CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	12 .	Multiplication Algorithms,	19-11-2020	
CO-2: Operation of CPUs including RTL, ALU, Instruction Cycle and Busses TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.	13	Division Algorithms.	20-11-2020	
14 Register Transfer 23-11-2020	CO-2: Op TB: Con	eration of CPUs including RTL, ALU, Instruction	Cycle and Busse	es
	14	Register Transfer	23-11-2020	

S. No	Unit / Topic	Taught on (Date)	
24	Tutorial	10-12-2020	
23	Complete Computer Description,	09-12-2020	
22	Instruction Cycle, Memory – Reference Instructions Input –Output and Interrupt,	07-12-2020	
21	Computer Register, Computer Instructions,	04-12-2020	
20	Arithmetic Logic Shift Unit. Basic Computer Organization and Design: Instruction Codes	03-12-2020	
19	Tutorial	02-12-2020	•
18	Logic Micro Operations, Shift Micro Operations,	30-11-2020	
17	Arithmetic Micro operations	27-11-2020	7 () () () () () () () () () (
16	Register Transfer Bus and Memory Transfers	26-11-2020	
15	Language and Microoperations: Register Transfer language	25-11-2020	

UNIT-III: Central Processing Unit
CO-3: Fundamentals of different Instruction Set Architectures and their relationship to the CPU Design

TB: Computer System Architecture, M. Morris Mano, Third Edition, Pearson, 2008.

25	Central Processing Unit: General Register Organization	11-12-2020	
26	Central Processing Unit: General Register Organization	12-12-2020	
27	STACK Organization	14-12-2020	
28	STACK Organization	16-12-2020	
29	Tutorial	17-12-2020	
30	STACK Organization	18-12-2020	Lecture
31	Instruction Formats, Addressing Modes,	21-12-2020	interspersed
32	Data Transfer and Manipulation,	23-12-2020	with discussions
33	Program Control, Reduced Instruction Set Computer.	24-12-2020	
34	Microprogrammed Control: Control Memory	28-12-2020	
35	Tutorial	30-12-2020	
36	Address Sequencing	31-12-2020	

37	Address Sequencing	02-01-2021	
38	Micro Program example	04-01-2021	-
39	Micro Program example	06-01-2021	
40	Micro Program example	07-01-2021	_
42	Micro Program example	08-01-2021	

UNIT-IV: Memory System and I/O Organization

CO-4: Memory System and I/O Organization

TB: Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R.Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008

43	Design of Control Unit	11-01-2021	
44	. Design of Control Unit	18-01-2021	
. 45	Memory Organization: Memory Hierarchy	20-01-2021	
46	Main Memory, Auxiliary Memory	21-01-2021	
47	Associative Memory	22-01-2021	
48	Cache Memory	23-01-2021	
49	Virtual Memory.	25-01-2021	
50	Input-Output Organization: Peripheral Devices	27-01-2021	
51	Input-Output Interface	28-01-2021	Lecture interspersed
52	Asynchronous data transfer,	29-01-2021	with discussions
53	Modes of Transfer,	30-01-2021	
54	Priority Interrupts,	01-02-2021	
55	Direct Memory Access	03-02-2021	
56	Direct Memory Access	04-02-2021	

UNIT-V: Multi Processors & Pipeline

CO-5: Principles of Operation of Multiprocessor Systems and Pipelining **TB:** Introduction to Automata Theory, Languages and Computation, J. E. Hopcroft, R. Motwani and J. D. Ullman, 3rd Edition, Pearson, 2008

57	UNIT-V	05-02-2021
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58	Characteristics of Multiprocessors	06-02-2021	
59	Interconnection Structures	12-02-2021	
60	Inter Processor Arbitration.	13-02-2021	Lecture
61	Pipeline: Parallel Processing	15-02-2021	interspersed with
62	Tutorial	17-02-2021	discussions
63	Pipelining, Instruction Pipeline	18-02-2021	
64	RISC Pipeline, Array Processor	19-02-2021	
65	Revision	20-02-2021	

Faculty/ Date

PRINCIPAL

SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada, 521108 Approved by AICTE, Affiliated to JNTUK, Kakinada (ISO 9001:2015 Certified Institution) Department of Computer Science and Engineering

TENTATIVE LESSON PLAN: R1921055 OBJECT ORIENTED PROGRAMMING THROUGH C++

Course Title: Object	ct Oriented Programming through C++	(R1921055)
Section : Sec A	Date: 15/08/2020	Page No: 01 of 03
Revision No: 00	Prepared By : M Sumanth	Approved By : HOD

Tools: Black board, PPTs, Moodle

Periods	TOPIC	Date	Mode of Delivery
Unit-1 I	ntroduction to C++		
CO1: De	escribe the procedural and object oriented paradigm with conc	epts of strea	ms, classes,
function	s, data and objects		
TB:" Pr	ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition		
1	Introduction to C++: Difference between C and C++	17/8/20	
2	Evolution of C++	18/8/20	
3	The Object Oriented Technology	19/8/20	Lecture
4	Disadvantage of Conventional Programming	21/8/20	interspersed
5	Key Concepts of Object Oriented Programming	25/8/20	with
		26/8/20	discussions
6	Advantage of OOP	28/8/20	discussions
7	Object Oriented Language	29/8/20	
		31/8/20	
8	Tutorial	1/9/20	
destruct	nderstand dynamic memory management techniques using pol ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition		ructors,
destruct	ors		ructors,
destruct TB:" Pr	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects &Constructors and Destructor: Classes in	"	ructors,
destruct TB:" Pr	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects &Constructors and Destructor: Classes in C++	2/9/20	
destruct TB:" Pr	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects &Constructors and Destructor: Classes in C++ Declaring Objects	2/9/20 7/9/20	Lecture
destruct TB:" Pr 9 10 11	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects & Constructors and Destructor: Classes in C++ Declaring Objects Access Specifiers and their Scope	" 2/9/20 7/9/20 8/9/20	Lecture interspersed
9 10 11 12	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects & Constructors and Destructor: Classes in C++ Declaring Objects Access Specifiers and their Scope Defining Member Function	" 2/9/20 7/9/20 8/9/20 9/9/20	Lecture interspersed with
9 10 11 12	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects & Constructors and Destructor: Classes in C++ Declaring Objects Access Specifiers and their Scope Defining Member Function	" 2/9/20 7/9/20 8/9/20 9/9/20 11/9/20	Lecture interspersed
10 11 12 13	ors ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition Classes and Objects & Constructors and Destructor: Classes in C++ Declaring Objects Access Specifiers and their Scope Defining Member Function Overloading Member Function	" 2/9/20 7/9/20 8/9/20 9/9/20 11/9/20 23/9/20	Lecture interspersed with

polymoi	phism		
TB:" Pr	ogramming in C++, Ashok N Kamthane, Pearson 2nd Edition	"	
22	Operator Overloading and Type Conversion & Inheritance: The Keyword Operator		
23	Overloading Unary Operator	23/10/20	a victorianico
24	Operator Return Type	23/10/20	
25	Overloading Assignment Operator (=)	26/10/20	Lecture
26	Rules for Overloading Operators	27/10/20	interspersed
27	Inheritance, Reusability	28/10/20	with
28	Types of Inheritance	29/10/20	discussions
29	Virtual Base ClassesObject as a Class Member	31/10/20	
30	Abstract Classes	2/11/20	
31	Advantages of Inheritance	3/11/20	
32	Disadvantages of Inheritance	4/11/20	
33	Tutorial	29/12/20	

UNIT-IV: Pointers & Binding Polymorphisms and Virtual Functions

CO4: Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming

TB:" Programming in C++, Ashok N Kamthane, Pearson 2nd Edition "

No. of Periods	TOPIC	Date	Mode of Delivery
34	Pointers & Binding Polymorphisms and Virtual Functions: Pointer	30/12/20	Denvery
35	Features of Pointers	31/12/20	-
36	Pointer Declaration	18/1/21	
37	Pointer to Class	19/1/21	
38	Pointer Object	19/1/21	Lecture
39	The this Pointer	21/1/21	interspersed
40	Pointer to Derived Classes and Base Class	21/1/21	with
41	Binding Polymorphisms and Virtual Functions	22/1/21	discussions
42	Introduction, Binding in C++	23/1/21	
43	Virtual Functions	23/1/21	4
44	Rules for Virtual Function	25/1/21	+
45	Virtual Destructor	25/1/21	
46	Tutorial	27/1/21	-

UNIT-V: Generic Programming with Templates & Exception Handling

CO5: Demonstrate an understanding of simple Entity-Relationship models for databases

TB:" Fundamentals of Data Structures in C++, S.Sahni, University Press (India) Pvt.Ltd, 2nd edition, Universities Press, Pvt. Ltd. "

47	Generic Programming with Templates & Exception Handling: Definition of class Templates	28/1/21	
48	Normal Function Templates	29/1/1	Lecture interspersed
49	Over Loading of Template Function	29/1/21	with
50	Bubble Sort Using Function Templates	30/1/21	discussions
51	Difference between Templates and Macros	1/2/21	

52	Linked Lists with Templates	2/2/21	
53	Exception Handling	3/2/21	
54	Principles of Exception Handling	4/2/21	
55	The Keywords try throw and catch	5/2/21	
56	Multiple Catch Statements	6/2/21	
57	Specifying Exceptions	8/2/21	
58	Overview of Standard Template Library	9/2/21	
59	STL Programming Model	10/2/21	1
60	Containers, Sequence Containers	11/2/21	
61	Associative Containers	12/2/21	
62	Algorithms, Iterators	12/2/21	
63	Vectors, Lists, Maps	14/2/21	
64	Tutorial	14/2/21	

Mfumar Signature of Faculty

Signature of HOD.

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TENTATIVE PLAN:

Course Title: HU	MAN COMPUTER INTERACTION (R1631)	121)
Branch : IT Year/Sem : III/I	Date: 02/11/20	A.Y:2020-2021
	Prepared By : Y.V.Nandini	Approved By : HOD
Tools: Black board,		TAPPIOTEG By . HOD

No. of	TOPIC	Date	Mode of Delivery
Periods			,

UNIT -I The User Interface

CO1: Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

TB: Wilbert O. Galitz, "The Essential Guide to User Interface Design", Wiley India Edition

1	Introduction to HCI	02/11/20	
2	Importance of the User Interface	3/11/20	
. 3.	Importance and benefits of Good Design	5/11/20	
4.	History of Human Computer Interface	6/11/20	The little of th
5.	Characteristics of Graphical and Web User Interface, Graphical User Interface	7/11/20	
6.	popularity of graphics	9/11/20	
7.	concepts of Direct Manipulation	10/11/20	Lecture interspersed
8.	Graphical System advantage and disadvantage	11/11/20	with discussions
9.	Characteristics of GUI, Web User Interface	12/11/20	The second secon
10.	popularity of web	13/12/20	
11.	Characteristics of Web Interface	14/12/20	
12	Merging of Graphical Business systems& the Web	16/12/20	
13	Principles of User Interface Design	17/12/20	

UNIT -II The User Interface Design Process

CO2:. Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

TB: Wilbert O. Galitz, "The Essential Guide to User Interface Design", Wiley India Edition

14	The User Interface Design Process	18/12/20	Triloy Iriala Edition
15	Obstacles and Pitfall in the development Process	19/12/20	Lecture interspersed with discussions

16	Usability, The Design Team	20/12/20
17	Human Interaction with Computers	23/12/20
18	Important Human Characteristics	24/12/20
19	Human Consideration in Design	26/12/20
20	Human Interaction Speeds	27/12/20
1111	Performance versus Preference	28/12/20
22	Methods for Gaining and Understanding of Users	30/12/20

UNIT -III Understanding Business Functions

CO3: Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

TB:

23	Understanding Business Functions Introduction	2/12/20	Lecture interspersed with discussions
24	Business Definitions & Requirement analysis	3/12/20	
25	Determining Business Functions	4/12/20	
26	Design standards or Style Guides	7/12/20	
27	System Training and Documentation	8/12/20	

UNIT - IV Principles of Good Screen Design

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m CO4}$:. Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

TB: Alan Cooper, Robert Riemann, David Cronin, "Essentials of Interaction Design", Wiley

12.71	District Added Trientalli, David Cronin, Ess	entials of intera	action Design", Wiley
28	Principles of Good Screen Design Introduction	9/12/20	
29	Human considerations in screen Design	11/12/20	
30	interface design goals, Test for a good design	12/12/20	Lecture interspersed
31	screen meaning and purpose	14/12/20	with discussions
32	Technological considerations in Interface, Interface Design System Menus	15/12/20	
33	Navigation Schemes, Structure of schemes	16/12/20	100 april 100 ap
34	Functions of navigation schemes.	17/12/20	
35	Context of schemes	18/12/20	
36	Formatting schemes	19/12/20	
37	Phrasing and Selecting schemes, Navigating of Menus	21/12/20	
38	Kinds of Graphical Menus Windows Interface	22/12/20	
39	Windows characteristic	24/12/20	
40	Components of Window	26/12/20	
41	Windows Presentation Styles	28/12/20	et ve brigteries - F
42	Types of Windows	29/12/20	
43	Types of Windows	30/12/20	
44	Window Management, Web systems	2/1/21	

UNIT - V Device and Screen-Based Control

CO5. Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

TB: Alan Cooper, Robert Riemann, David Cronin, "Essentials of Interaction Design", Wiley

45	Device and Screen-Based Control	4/1/21	NAME OF THE PARTY
46	Device based controls	5/1/21	
47	Operable Controls	6/1/21	
48	Text entry	7/1/21	
49	read-Only Controls	8/1/21	Lecture interspersed
50	Section Controls	9/1/21	with discussions
51	Combining Entry Controls/ Selection Controls	12/1/21	
52	Other Operable Controls	18/1/21	
54	Presentation Controls	19/1/21	
55	Selecting proper controls	20/1/21	

UNIT - VI Effective Feedback Guidance and Assistance

CO6: Students are assessed on their ability to communicate and apply UCD methods in the capstone project course. Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project

Ben Shneidermann,"Designing the user interfaces". 3rd Edition, Pearson Education Asia.

56	Effective Feedback Guidance	23/1/21	
57	Assistance Introduction:	1/2/21	
58	Providing the Proper Feedback .	2/2/21	
59	Effective Internationalization	3/2/21	
60	Accessibility	4/2/21	Lecture interspersed
61	International consideration	5/2/21	with discussions
62	Accessibility	6/2/21	
63	Create meaningful Graphics	7/2/21	
64	Create meaningful Graphics with icons	8/2/21	
65	Creating Icons	9/2/21	
66	Creating Icons based considerations	10/2/21	
67	Creating Images	12/2/21	
68	Creating Images based considerations	13/2/21	
69	Colors-uses	15/2/21	
70	possible problems with colors	16/2/21	
71	choosing colors	17/2/21	
72	choosing colors based on countries	18/2/21	

Signature of the Faculty ENIKEPADU, VIJAYAWADA-521 108

Signature of the HOD

Tentative Plan: (R163052)

C	Course Title: UNIX AND SHELL PRO	OGRAMMING	
Section : IT	Date: 2/11/20	AY:2020-21	
Revision No: 00	Prepared By: G D K Kishore	Approved By : HOD	

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I Introduction	to unix-Brief History-What is Unix-Uni	x Components-Usir	
	Unix-Some Basic Commands-Comman		
Commands.			and manufacture
TB:Introduction	on to Unix Shell Programming by M.G.Ve	nkateshmurthy, Pea	rson.
1	Introduction to Unix	2/11/20	
2	Brief History	3/11/20	
. 3	What is Unix-Unix Components	4/11/20	
4	Using Unix-Commands in Unix	5/11/20	Lecture interspersed with discussions
5	Some Basic Commands	6/11/20	
6	Command Substitution	7/11/20	
7	Giving Multiple Commands.	9/11/21	
UNIT-II	Giving wrutiple Commands.	9/11/21	

The File system –The Basics of Files-What's in a File-Directories and File Names-Permissions-I Nodes-The Directory Hierarchy, File Attributes and Permissions-The File Command knowing the File Type-The Chmod Command Changing File Permissions-The Chown Command Changing the Owner of a File-The Chgrp Command Changing the Group of a File.

TB:Introduction to Unix Shell Programming by M.G. Venkateshmurthy, Pearson.

11	The File system	10/11/20	
12	What's in a File-Directories and File Names	11/11/20	Lecture
13	I Nodes	12/11/20	
14	The Directory Hierarchy	13/11/20	
15,16	File Attributes and Permissions	30/11/20, 1/12/20	
17,18	Command knowing the File Type	2/12/20, 3/12/20	interspersed with discussions
19	Chmod - Changing File Permissions	4/12/20	

20,21	Chown-Changing the Owner	5/12/20,	
		7/12/20	
22	Chgrp-Changing the Group	8/12/20	
Command A More on I/	hell-Command Line Structure-Met characters. Arguments and Parameters-Program Out O Redirection-Looping in Shell Programs of programming Environment by Brain W. K.	put as Arguments-S	Shell Variable
23	Command Line Structure	11/12/20	
24	Meta characters	14/12/20	
25	New commands	15/12/20	
26	Arguments and Parameters	16/12/20	
27	Output as a Arguments	17/12/20	Lecture
28	Shell Variables	18/12/20	interspersed with
29	classic problems of synchronization	19/12/20	discussions
30	I/O redirection	21/12/20	
31	Looping in shell	22/12/20	
Scanning an	Grep Family-Other Filters-The Stream E ad processing Language-Good Files and G a programming Environment by Brain W. Ke	ood Filters.	
Scanning an	d processing Language-Good Files and G x programming Environment by Brain W. Ke	ood Filters. ernighan & Rob Pike	
Scanning and TB:The Unix	ad processing Language-Good Files and Good programming Environment by Brain W. Kood Filters	ood Filters. ernighan & Rob Pike 28/12/20.	
Scanning and TB:The Unix 32	d processing Language-Good Files and G x programming Environment by Brain W. Ke	ood Filters. ernighan & Rob Pike	
Scanning and TB:The Unix 32 33	d processing Language-Good Files and Good programming Environment by Brain W. Kelling Filters Grep Family	ood Filters. ernighan & Rob Pike 28/12/20. 29/12/20	Lecture
Scanning and TB:The Unix 32 33 34	d processing Language-Good Files and Good programming Environment by Brain W. Kood Filters Grep Family Other Filters	cood Filters. ernighan & Rob Pike 28/12/20. 29/12/20 30/12/20	Lecture interspersed with
Scanning and TB: The Unix 32 33 34 35	Ad processing Language-Good Files and Good programming Environment by Brain W. Key Filters Grep Family Other Filters Stream Editor	cood Filters. ernighan & Rob Pike 28/12/20. 29/12/20 30/12/20 31/12/20	Lecture interspersed with
Scanning and TB:The Unix 32 33 34 35 36	d processing Language-Good Files and Good programming Environment by Brain W. Key Filters Grep Family Other Filters Stream Editor AWK	cood Filters. ernighan & Rob Pike 28/12/20. 29/12/20 30/12/20 31/12/20 2/1/21	Lecture interspersed with
Scanning and TB:The Unix 32 33 34 35 36 37 38,39 UNIT-V	d processing Language-Good Files and Good programming Environment by Brain W. Key Filters Grep Family Other Filters Stream Editor AWK AWK Good Files and Filters	Food Filters. ernighan & Rob Pike 28/12/20. 29/12/20 30/12/20 31/12/20 2/1/21 4/1/21 5/1/21,5/1/21	Lecture interspersed with discussions
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41	Export Command	7/1/21	interspersed
42,43	The Profile File	8/1/21,8/1/21	with
44,45	read Command	11/1/21,	discussions
en entrant a dans de la companya de	**	12/1/21	· · · · · · · · · · · · · · · · · · ·
46	Positional parameters	18/1/21,	
47	Set Command	19/1/21	
48,49	Exit Command	20/1/21,	
		21/1/21	
50,51	Loop Control Structures	22/1/21	
		23/1/21	
52,53	Continue and Break	25/1/21,	
		25/1/21	
54	The Expr Command	28/1/21	
55,56	Integer Arithmetic-Real Arithmetic	29/1/21,29,1/21	
57,58	The here Document	30/1/21, 1/2/21	
59	Sleep, Eval, Exec commands	2/2/21,	
60	Tutorial	3/2/21	

UNIT-VI

The Process-The Meaning-Parent and Child Processes-Types of Processes-More about Foreground and Background processes-Internal and External Commands-Process Creation-The Trap Command-The Stty Command-The Kill Command-Job Control.

TB:Introduction to Unix Shell Programming by M.G.Venkateshmurthy, Pearson

61,62	The Process	3/2/21, 4/2/21	
63,64	Parent and Child Processes.	5/2/21, 6/2/21	
65,66	Foreground processes	8/2/21, 8/2/21	
67, 68	Background processes	9/2/21, 10/2/21	
69, 70	free-space management	11/2/21,	
		12/2/21	Lecture
71	Internal Commands	13/2/21	interspersed
72	External Commands	15/2/21,	with
73	Trap Command,	16/2/21	discussions
74	stty command	17/2/21	
75	Kill	19/2/21	
76	Job Control	20/2/21	

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TENTATIVE PLAN: R1631122

Course Title: Adv	vanced Java Programming (R1631122)		
Branch : IT Date : 02/11/20 AY:2020-2021			
Year/Sem: III/I			
Revision No: 00	Prepared By: M.Suresh Babu, Asst.Professor	Approved By : HOD	

No. of	TOPIC	Date	Mode of Delivery
Periods	10110	Date	winde of Denvery

UNIT -I Recapitulation of XTML

CO1: Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.

TB: Internet and World wide web- How to program, Dietel and Nieto, Pearson.

1	Introduction to XTML	02/11/20	
2	Introduction to XTML5	3/11/20	
3	Java Swing package	5/11/20	
4 ·	use of System class	6/11/20	
5	Applet Context	7/11/20	
6	signed applet	9/11/20	
7	object serialization	11/11/20	
8	shallow and deep copying	12/11/20	Lecture interspersed
9	Java collections	13/12/20	with discussions
10	Iterators	16/12/20	
11	Array Lists,	17/12/20	
12	sets –hashset	18/12/20	
13 .	hash table- queue,	19/12/20	
14	priority queue class	20/12/20	
15	Vector class	21/12/20	
16	Comparable interface.	22/12/20	

No. of	TOPIC	Date	Mode of Delivery
Periods			

UNIT -II Java Beans Introduction

CO2: Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.

TB: Internet and World wide web- How to program, Dietel and Nieto, Pearson.

17	Java Beans	23/12/20	
18	Advantages of Java Beans	24/12/20	
19	BDK Introspection,	26/12/20	
20	Using Bound properties,	28/12/20	
21	Bean Info Interface,	28/12/20	Lecture interspersed
22	Constrained properties Persistence,	29/12/20	with discussions
23	Customizers,	29/12/20	
24	Java Beans API	30/12/20	

UNIT -III Introduction to Servelets

CO3: Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.

TB: Internet and World wide web- How to program, Dietel and Nieto, Pearson.

25	Lifecycle of a Serverlet,	31/12/20	
26	JSDK The Servelet API,	02/01/21	
27	The javax.servelet Package,	03/01/21	
28	Reading Servelet parameters,	04/01/21	
29	Reading Initialization parameters.	07/01/21	Lecture interspersed
30	The javax.servelet HTTP package	08/01/21	with discussions
31	Handling Http Request & Responses	10/01/21	
32	Using Cookies-Session Tracking	11/01/21	
33	Servlet chaining-	12/01/21	
-34	Security Issues	. 18/01/21	

UNIT - IV Introduction to JSP The Problem with Servelet

CO4: Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.

TB: Internet and World wide web- How to program, Dietel and Nieto, Pearson.

No. of Period	TOPIC	Date	Mode of Delivery
35	The Anatomy of a JSP Page,	18/01/21	
36	JSP Processing	19/01/21	
37	JSP Application Design	20/01/21	
38	MVC Setting Up	21/01/21	
39	JSP Environment:	23/01/21	
40	Installing the Java Software Development Kit	25/01/21	
41	Tomcat Server & Testing Tomcat	26/01/21	
42	Context of schemes	28/01/21	Lecture interspersed
43	Formatting schemes	29/01/20	with discussions
44	Kinds of Graphical Menus Windows Interface	30/01/21	
45	Windows characteristic	31/01/21	
46	Components of Window	02/02/21	
47	Windows Presentation Styles	04/02/21	
48	Types of Windows	05/02/21	
49	Types of Windows	06/02/21	
50	Window Management	07/02/21	
51	Web systems	08/02/21	Control of the Contro

UNIT - V JSP Application Development

CO5. Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.

TB: The Complete Reference, Java 2, 3ed, Patrik Naughton, Herbert Schildt, TMH.

No. of Period	TOPIC	Date	Mode of Delivery
52	JSP Application Development	08/2/21	
. 53	Generating Dynamic Content	08/2/21	
54	Using Scripting Elements Implicit JSP Objects	09/2/21	
55	Conditional Processing	10/2/21	
56	Displaying Values Using an Expression to Set an Attribute	11/2/21	Lecture interspersed with discussions
57,58	Declaring Variables and Methods Error Handling and Debugging Sharing Data Between JSP pages	11/2/21	
59	Requests	12/2/21	
60	Users Passing Control and Date between Pages	12/2/21	
61	Sharing Session and Application Data	13/2/21	

UNIT - VI Database Access Database Programming using JDBC

CO6: Getting the student to be well trained in Advanced Java Programming skills for an easy entry in the IT Industry.Ben Shneidermann, "Designing the user interfaces". 3rd Edition, Pearson Education Asia.

TB: The Complete Reference, Java 2, 3ed, Patrik Naughton, Herbert Schildt, TMH.

No. of Period	TOPIC	Date	Mode of Delivery
62,63	Database Access Database Programming using JDBC Studying Javax.sql. Package.	13/2/21	Lecture interspersed with discussions
64,65	Accessing MySql database	15/2/21,	
66,67	Accessing MS Access database	16/2/21	
68,69	Accessing a Database from a JSP Page Application	17/2/21	
70,71	Specific Database Actions Deploying JAVA Beans in a JSP Page.	19/2/21	
72,73	Introduction to struts framework.	20/2/21	

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TENTATIVE PLAN: R1631054

Course Title: Data Base Management System (R1631054)					
Branch : IT Year/Sem : III/I	Date: 02/11/20	AY:2020-2021			
Revision No: 00	Prepared By : A.Veda Sri	Approved By : HOD			

Tools: Bla	ick board, PPTs	on the Augustia afficiency	AND THE COMMENT OF THE COMMENT OF SELECTION TO SELECT
No. of Periods	TOPIC	Date	Mode of Delivery
UNIT –I	An Overview of Database Managemen	t	
CO1: D	escribe a relational database and object-ori	ented databa	ise.
	roduction to Database Systems, CJ Date, P		
1.	Introduction- What is Database System, What is Database, Why Database	02/11/20	
2.	Data Independence	03/11/20	
3.	Relation Systems and Others	04/11/20	Lecture intersperse with discussions
4.	The Three Levels of Architecture- The External Level, the Conceptual Level, the Internal Level	05/11/20	
5.	Mapping, Database Administrator	06/11/20	
6.	The Database Management Systems-	07/11/20	

TENTATIVE PLAN: R1631054

Course Title: Data Base Management System (R1631054)		4)
Section : IT	Date: 02/11/20	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 The E/R Models		
	escribe ER model and normalization for d		n.
TB: In	troduction to Database Systems, CJ Date,	Pearson	
6.	Introduction to Database Design	09/11/20	
7.	Database Design and Er Diagrams	10/11/20	
8.	Entities Attributes, Entity Sets-Relationship	11/11/20	
9.	Relationship Sets	12/11/20	
10.	Conceptual Design With the Er Models	13/12/20	Lecture interspersed
11.	Key Constraints	14/12/20	with discussions
12.	Foreign Key Constraints, General Constraints	16/12/20	
13	Selection and Projection	17/12/20	
14	Set Operation	18/12/20	
15	Renaming, Joint	19/12/20	
16	Division, More Examples of Queries	20/12/20	
17	Tuple RelationalCalculus	21/12/20	
18	Domain Relational Calculus	23/12/20	



UNIT -III Queries, Constraints, Triggers

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

TB: Data base Management Systems, Raghurama Krishnan, Johannes Gehrke,

111111 MICOIAN IIII SIU LUIUUI	T	ATA	McGraw	Hill	3rd	Edition
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19	The Form of Basic SQL Query	24/12/20	
20	Union	25/12/20	
21	Intersect, Except	26/12/20	
22	Nested Queries	27/12/20	
23	Aggregate Operators	28/12/20	Lecture interspersed
24	Null Values	30/12/20	with discussions
25	Complex Integrity	01/12/20	
26	Constraints in SQL	02/12/20	
27	Comlex Constraints	03/12/20	
28	Triggers and Active Database.	04/12/20	

Course Title: Dat	a Base Management System (R1631054)	
Section : IT	Date: 02/11/20	AY:2020-2021
Revision No: 00	Prepared By : A.Veda Sri	Approved By : HOD

Tools: Black board, PPTs

No. of	TOPIC	Date	Mode of Delivery
Period			

UNIT -IV Schema Refinement (Normalization)

CO4: Describe ER model and normalization for database design.

TB: Introduction to Database Systems, CJ Date, Pearson

No. of Period	TOPIC	Date	Mode of Delivery
29	Introduction to Normalization or schema refinement	07/12/20	
30	Purpose of Normalization	09/12/20	
31	Advantages and disadvantages	10/12/20	
22.22	functional dependency	11/12/20	
32,33		12/12/20	
34	First normal form	14/12/20	Lecture interspersed
35	Second normal form	15/12/20	with discussions
36	Third normal form	16/12/20	
37	Concept of surrogate key	17/12/20	
39	Boyce-codd normal form(BCNF)	18/12/20	
40,41	Lossless join	19/12/20	
40,41		21/12/20	
42,43	dependency preserving decomposition	22/12/20	
42,43		23/12/20	
- 44:	Fourth normal form(4NF)	24/12/20	

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

45	Introduction to Transaction	26/12/20	
16.47	Properties of transactions	28/12/20	
46,47		29/12/20	and the second of the second o
48	Transaction log	30/12/20	
40.50	Transaction management with SQL using commit	31/12/20	
49,50	rollback and savepoint.	02/01/21	
51	Concurrency control for lost updates, uncommitted data	04/01/21	
52	inconsistent retrievals and the Scheduler.	05/01/21	
52.54	Concurrency control with locking methods : lock	06/01/21	Lecture interspersed
53,54	granularity, lock types	07/01/21	with discussions
55	two phase locking for ensuring serializability	8/01/21	
. 56	Deadlocks .	9/01/21	
57	Dead lock prevention	11/01/21	
58	Concurrency control with time stamp ordering : Wait/Die and	12/01/21	
59	Wound/Wait Schemes	18/01/21	
60.61	Database Recovery management	19/01/21	
60,61		20/01/21	
62	Transaction recovery	22/01/21	

UNIT -VI Overview of Storages and Indexing

CO6: Examine issues in data storage and query processing and can formulate appropriate solutions.

TB: Introduction to Database Systems, CJ Date, Pearson

63	Overview of Storages and Indexing	01/02/21	
64	Data on External Storage	02/02/21	
65,66	File Organization and Indexing	03/02/21	
05,00		04/02/21	
67	Hash-Based Indexing	05/02/21	
68	Clustered Indexing	07/02/21	
69	Secondary Indexes	08/02/21	Lecture interspersed
70	Index Data Structures	09/02/21	with discussions
71	Tree-Based Indexing	10/02/21	
72	B+tree	12/02/21	
73	Comparison of File Organization	13/02/21	
74	Types of files	15/02/21	
75	Heap and sequential files	16/02/21	

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TENTATIVE PLAN: R1631055

	Course Title: Operating Systems (R163	31055)
Section : IT	Date : 02/11/20	Page No: 01 of 03
Revision No: 00	Prepared By : Amritha mishra	Approved By : HOD

repared by . Amirina mishra		14	Approved by . HOD
	Tools: Black board, PPTs, N	Ioodle	
No. of	TOPIC	Date	Mode of Delivery
Periods			
	UNIT -I Introduction to Opera	ting System Co	oncept:
	CO1: Design various Schedul	ing algorithms	
TB: 0	Operating System Concepts, Abraham Silber	schatz, Peter B	Baer Galvin and Greg
	Gagne9th Edition, John Wiley an		
1	Introduction to Operating System Concept	02/11/20	0
2.2	Types of operating systems	3/11/20)
2, 3		4/11/20	Lecture interspersed
4	operating systems concepts,	5/11/20	
5	operating systems services	6/11/20)

TENTATIVE PLAN: R1631055

Introduction to System call, System call types.

6

	Course Title: Operating Systems (R163	31055)
Section : IT	Date:	Page No: 01 of 03
Revision No: 00	Prepared By : Amritha mishra	Approved By : HOD

7/11/20

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of Delivery	
	UNIT -II Process Mana			
ТВ	CO2: Apply the principles of co : Operating System Concepts, Abraham Silbersch Gagne9th Edition, John Wiley and	atz, Peter Baer		
7	Process Management –	9/11/20		
8	Process concept,	10/11/20		
9	The process,	11/11/20		
10	Process State Diagram	13/12/20		
11	Process controlblock,	16/12/20	Lecture intersperse	
12	Process Scheduling	17/12/20	with discussions	
13	Scheduling Queues, Schedulers,	18/12/20		
14	Operations on Processes, Interprocess Communication	19/12/20		
15	Threading Issues, Scheduling-Basic Concepts	20/12/20		
16	Scheduling Criteria,	21/12/20		
17	Scheduling Algorithms	23/12/20		

UNIT – III Memory Management:

CO3: Compare and contrast various memory management schemes.

TB: Operating System Concepts, Abraham Silberschatz, Peter Baer Galvin and Greg

Swapping, 24/12/20 25/12/20 Contiguous Memory Allocation 26/12/20 Paging, 27/12/20 structure of the Page Table 28/12/20 Lecture interspersed

30/12/20

1/1/21

2/1/21

3/1/21

4/1/21

with discussions

TENTATIVE PLAN: R1631055

Segmentation

Virtual Memory,

Demand Paging

Page-Replacement Algorithms

Thrashing

20,21

22

23

24

25

26, 27

28, 29

30,31

32

Course Title: Operating Systems (R1631055)			
Section : IT	Date:	Page No: 01 of 03	
Revision No: 00	Prepared By : Amritha mishra	Approved By : HOD	

No. of Period s

UNIT –IV IV 1. Concurrency:

2. Principles of deadlock

CO4: Apply the principles of concurrency.

Co3 Design deadlock, prevention and avoidance algorithms.

TB: Operating Systems – Internals and Design Principles, William Stallings, 7th Edition,
Prentice Hall, 2011

No. of Period	TOPIC	Date	Mode of Delivery
S			
22	Process Synchronization,	7/1/21	
33		8/1/21	
34,35	The Critical- Section Problem,	10/1/21	
26.27	Synchronization Hardware, Semaphores,	11/1/21	
36,37		12/1/21	
38,39	Classic Problems of Synchronization,	14/1/21	
40	Monitors, Synchronization examples	15/1/21	_
	Principles of deadlock - System Model,	16/1/21	
41,42	odomes designations de la composition de la composición. Addition famológico, adequatos different Flator. Paper.	17/1/21	

43,44	Deadlock Characterization,	18/1/21
45	Deadlock Prevention, ,	19/1/21
45		21/1/21
16	Detection and Avoidance	22/1/21
46		23/1/21
47,48	Recovery form Deadlock	24/1/21
UNIT	-V File system Interface-, File System im	plementation, Mass-storage structure
	CO5: Design and Implement a pr	
TB:O	perating Systems-S Halder, Alex A Aravind Po	earson Education Second Edition 2016
49	File system Interface-	26/1/21
50.51	the concept of a file	28/1/21

10.0	peracing bystems-b Haider, Alex A Aravind I ear	son Education	Second Edition 2010.
49	File system Interface-	26/1/21	
50,51	the concept of a file,	28/1/21	
52,53	Access Methods, Directory structure	29/12/20	
54	File system mounting, file sharing, protection.	30/1/21	
	File System implementation, File system	31/1/21	
55,56	structure,		Lecture interspersed with discussions
57,58	allocation methods, free-space management	2/2/21	with discussions
59,60	Mass-storage structure	4/2/21	
61	overview of Mass-storage structure,	5/2/21	
62,63	Disk scheduling,	6/2/21	

UNIT -VI Linux System- Android Software Platform:

7/2/21

Device drivers,.

CO6: Perform administrative tasks on Linux Servers, Introduction to Android Operating System Internals.

TB:O	perating Systems-S Halder	, Alex A Aravind Pearson Education	Second Edition 2016.

;66	Linux System: Components of LINUX,	8/2/21	Button 2010.
67,68	Interprocess Communication,	9/2/21	
69,70	Synchronization, Interrupt	11/2/21	
71, 72	, Exception and System Call.	12/2/21	-
73,74	Android Software Platform: Android Architecture		Lecture interspersed with discussions
75	Operating System Services, Android Runtime, Application Development	19/2/21	
76	, Application Structure, Application Process management	20/2/21,	

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64, 65

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TENTATIVE LESSON PLAN: R1641051

Section : IT	Date: 2-11-2020	AY: 2020-21
Year /Sem : IV/I		
Revision No: 00	Prepared By : G.SRILAKSHMI, Assistant Professor	Approved By : HOD

Tools: Black box	ard, PPI	s. Moodle
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No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I E	Basic Principles		
TEXT BO	various Security attacks ,Services, Me DOK: Johy and Network Security, Behrouz A F		
1	UNIT:I Introduction	2/11/2020	
2	Security Goals	3/11/2020	
3	Cryptographic Attacks	4/11/2020	
4	Security Services	6/11/2020	
5	Security Mechanisms	7/11/2020	
6	Techniques	9/11/2020	
7	Integer Arithmetic	10/11/20	Lecture interspersed with discussions
	Modular Arithmetic	11/11/20	
8,9,10	congruence	12/11/20	
	Operation on Z _N	13/11/20	
11,12	Matrices	23/11/20 24/11/20	
13	Linear congruence	25/11/20	
14	Tutorial class	28/11/20	

UNIT-II Symmetric Encryption

CO2:

Relate Mathematics of Symmetric Key Cryptography and Apply the Symmetric key Cryptography like DES, AES.

TEXT BOOK:

Cryptography and Network Security, Behrouz A Forouzan, Debdeep Mukhopadhyay, (3e) Mc Graw Hill.

15	UNIT:II Mathematics of Symmetric Key Cryptography	30/11/20	
16	Algebraic Structure	1/12/20	
17	GF Fields	2/12/20	Lecture interspersed
18	Introduction to Modern Symmetric Key Ciphers	3/12/20	with discussions
19	Modern Block Ciphers	3/12/20	
20	Modern Stream Ciphers	14/12/20	

21	Introduction Data Encryption Standard	15/12/20	
22	DES Structure	16/12/20	
23	DES Analysis	17/12/20	
24	Multiple DES, Security of DES	18/12/20	
25	Advanced Encryption Standard	19/12/20	
26	Transformations	21/12/20	
27	Key Expansion	22/12/20	
28	Ciphers, Examples, Analysis of AES	23/12/20	
29	Tutorial	24/12/20	

UNIT-III: Asymmetric Encryption

CO3:

Relate Mathematics of Asymmetric Key Cryptography and Apply the Asymmetric key cryptography

TEXT BOOK:

Cryptography and Network Security, Behrouz A Forouzan, Debdeep Mukhopadhyay, (3e) Mc Graw Hill.

30	UNIT-III Asymmetric Encryption	26/12/20	
31,32	Mathematics of Asymmetric Key Cryptography:	28/12/20	
31,32	PRIMES	29/12/20	
33	Primality Testing	30/12/20	
34	Factorization	31/12/20	Lecture interspersed
35	Chinese Remainder Theorm	2/01/21	with discussions
36,37	Quadratic Congruence	4/01/21	
50,57		5/01/21	
38,39	Asymmetric Key Cryptography	6/01/21	
30,39		7/01/21 ·	
40	Tutorial	9/01/21	

UNIT-IV Data Integrity, Digital Signature Schemes & Key Management

CO4:

Make use of Data Integrity, Digital Signature Schemes & Key Management for verifying the authenticity of digital messages

TEXT BOOK:

Cryptography and Network Security, Behrouz A Forouzan, Debdeep Mukhopadhyay, (3e) Mc Graw Hill.

41,42	UNIT:IV Message Integrity and Message	11/01/21	
71,72	Authentication	12/01/21	
43,44	Cryptographic Hash Functions	18/01/21	
73,77		19/01/21	Lecture interspersed with
45	Digital Signature	20/01/21	discussions
46,47	Key Management	21/01/21	discussions
70,77		23/1/21	
48	Tutorial	25/1/21	
70		25/1/21	

Course Title: CRYPTOGRAPHY NETWORKS SECURITY		
Section : IT Year /Sem : IV/I	Date: 2-11-2020	AY: 2020-21
Revision No:	Prepared By :G.SRILAKSHMI, Assistant Professor	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-V Network Secur	rity-I		
CO 5:			

Select protocols like PGP,S/MIME in Application layer and SSL,TLS in Transport layer to Secure the Network during data transmission

TEXT BOOK:

Cryptography and Network Security, Behrouz A Forouzan, Debdeep Mukhopadhyay, (3e) Mc Graw Hill.

49,50	UNIT-V: Network Security-I	27/1/21	
		28/1/21	
51,52	Security at application layer	29/1/21	
31,32		30/1/21	
53	PGP	1/2/21	The state of the s
54	S/MIME	2/2/21	Lecture interspersed
55	Security at the Transport Layer	3/2/21	with discussions
56,57	SSL	4/2/21	
36,37		5/2/21	
58	TLS	8/2/21	
59 .	Tutorial	. 9/2/21	

UNIT-VI Network Security-II

CO6:

Select protocols like PGP,S/MIME in Application layer and SSL,TLS in Transport layer to Secure the Network during data transmission

TEXT BOOK:

Cryptography and Network Security, Behrouz A Forouzan, Debdeep Mukhopadhyay, (3e) Mc Graw Hill.

60,61	UNIT- VI: Network Security-II	10/2/21	
00,01		11/2/21	
62,63	Security at the Network Layer	12/2/21	
02,03		15/2/21	
64,65	IPSec	16/2/21	Lecture interspersed
04,03		17/2/21	with discussions
	System Security	18/2/21	
66,67,68		19/2/21	
		19/2/21	
69	Tutorial	20/2/21	

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3 | Page

Tentative Plan:R164105C

Course Title: MOBILE COMPUTING		
Section : IT Year/Sem: IV/I	Date :02-11-2020	A.Y:2019-2020
Revision No :	Prepared By : M RAMBHUPAL	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
	UNIT-I: Introduction: Mobile Communi	cations, & GSM	
	To make the student understand the concept of mobi applications and limitations Jochen Schiller, "Mobile Communications", Addison	3.	
1	Introduction: Mobile Communications	02-11-2020	
2	Mobile Computing – Paradigm,	03-11-2020	
3	Promises/Novel Applications	04-11-2020	_
4	Impediments and Architecture	05-11-2020	
5	Mobile and Handheld Devices	06-11-2020	Lecture interspersed
6 .	Limitations of Mobile and Handheld Devices.	. 07-11-2020	with discussions
7	GSM – Services, System Architecture	09-11-2020	
8	Radio Interfaces	10-11-2020	
9	Protocols, Localization	11-11-2020	
10	Calling, Handover,	12-11-2020	
11	Security,	13-11-2020	
12	New Data Services, GPRS	16-11-2020	
CO-2:	UNIT -II (Wireless) Medium Access Contro To understand the typical mobile networking infras	l (MAC) tructure through a	popular GSM
TB :. J	protocol ochen Schiller, "Mobile Communications", Addison	-Wesley Second I	Edition 2009
13	Motivation for a specialized MAC	17-11-2020	2009
14	Hidden and exposed terminals	18-11-2020	
15	Near and far terminals	19-11-2020	

Page 1 of die.

	. IINIT-III. Mobile Network		
S. No	Unit / Topic	Taught on (Date)	
24	Wireless LAN/(IEEE 802.11)1	01-12-2020	
23	CDMA2	30-11-2020	
22	CDMA1	28-11-2020	
21	TDMA4	27-11-2020	
20	TDMA3	25-11-2020	
19	TDMA2	24-11-2020	
18	TDMA1	23-11-2020	discussions
17	FDMA	21-11-2020	interspersed with
16	SDMA	20-11-2020	Lecture

UNIT-III: Mobile Network Layer:

CO-3: To understand the issues and solutions of various layers of mobile networks, namely MAC layer, Network Layer & Transport Layer

TB:. Jochen Schiller, "Mobile Communications", Addison-Wesley, Second Edition, 2009 25 IP and Mobile IP Network Layers, 02-12-2020 26 IP and Mobile IP Network Layers 03-12-2020 27 IP and Mobile IP Network Layers 05-12-2020 28 Packet Delivery 07-12-2020 Lecture interspersed 29 Handover Management 08-12-2020 with discussions 30 Location Management 09-12-2020 31 Registration, 10-12-2020 32 Tunneling and Encapsulation1 11-12-2020 33 Tunneling and Encapsulation2 14-12-2020 34 Route Optimization, 16-12-2020 35 Route Optimization, 17-12-2020 36 Route Optimization, 18-12-2020 37 **DHCP** 19-12-2020

UNIT-IV: Mobile Transport Layer & Database Issues

21-12-2020

Tutorial

38

CO4: To understand the database issues in mobile environments & data delivery models. TB:. Jochen Schiller, "Mobile Communications", Addison-Wesley, Second Edition, 2009

39	Mobile Transport Layer :	23-12-2020	
40	Conventional TCP/IP Protocols	24-12-2020	
41	Conventional TCP/IP Protocols	28-12-2020	
42	Conventional TCP/IP Protocols	29-12-2020	
43	Indirect TCP	30-12-2020	Lecture interspersed
44	Indirect TCP	04-01-2021	with discussions
45	Snooping TCP	05-01-2021	
46	Snooping TCP	06-01-2021	
47	Snooping TCP	12-01-2021	
48	Mobile TCP,	18-01-2021	
. 49	Other Transport Layer Protocols for Mobile Networks	19-01-2021	
50	Other Transport Layer Protocols for Mobile Networks	20-01-2021	
51	Tutorial	21-01-2021	
S. No	Unit / Topic	Taught on (Date)	

UNIT-VI: Mobile Ad hoc Networks (MANETs):

CO5: To understand the ad hoc networks and related concepts..

CO6: To understand the platforms and protocols used in mobile environment

TB:. Jochen Schiller, "Mobile Communications", Addison-Wesley, Second Edition, 2009

52	UNIT V		
	Mobile Ad hoc Networks (MANETs): Introduction,	25-01-2021	
53	Applications & Challenges of a MANET	27-01-2021	Lecture
54	DSR,	28-01-2021	interspersed
55	AODV,	30-01-2021	discussions
56	DSDV	02-02-2021	
57	Mobile Agents, Service Discovery.	03-02-2021	
58	Protocols and Platforms for Mobile Computing : WAP,	05-02-2021	
59	Bluetooth, XML, J2ME, JavaCard, PalmOS	06-02-2021	
60	Windows CE, SymbianOS,	08-02-2021	
61	Linux for Mobile Devices, Android	09-02-2021	
S. No	Unit / Topic	Taught on	Birth art of hande to be a first of the

-		(Date)	
	UNIT-V: Data Dissemination and Syn	chronization	
CO	4: To understand the database issues in mobile environ	ments & data del	ivery models
TB:.	Jochen Schiller, "Mobile Communications", Addison-	-Wesley, Second	Edition, 2009
62	Data Dissemination and Synchronization:		
**************************************	Communications Asymmetry	12-02-2021	Lecture
63	Classification of Data Delivery	13-02-2021	interspersed
	Mechanisms, Data dissemination,		with
64	Broadcast Models, Selective Tuning and Indexing	15-02-2021	discussions
	Methods,		
65	Data		
	Synchronization – Introduction, Software, and	16-02-2021	
	Protocols.		
66	Database Issues: Database Hoarding & Caching	17-02-2021	
	Techniques,		
67	Client-Server Computing & Adaptation,	19-02-2021	
68	Transactional Models, Query processing, Data	20-02-2021	
	Recovery Process & QoS Issues.	20 02 2021	

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Page 4 of 4

TENTATIVE PLAN: R1641127

Course Title: DATAWAREHOUSING AND BUSINESS INTELLIGENCE (R1641127)				
Section : IT	Date : 2 /11/2020	AY:2020-21	IV-I	
Revision No : 00	Prepared By: G D K Kishore	Approved By: HOD		

Tools	· Black	hoard	PPTc	Moodle
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No. of	TOPIC	Date	Mode of Delivery
Period			
S			

UNIT -I Introduction to Datamining

CO1: Describe the scope and application of business intelligence and decision support;

TB: Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

	UNIT-I Introduction to Data Mining		
	About Data Mining	2/11/2020,	
1,2,3		3/11/2020,	
		4/11/2020	
4,5	Motivation for Data Mining, Data Mining-Definition &	6/11/2020,	
4,3	Functionalities	7/11/2020	
6,7	Classification of DM systems	9/11/2020,	
		10/11/20	
0.0	DM task primitives	11/11/20,	,Lecture interspersed
8,9		12/11/20	with discussions
	Integration of a Data Mining system with a Database or a	13/11/20,	
10,11,12	Data Warehouse	23/11/20	
		24/11/20	
13	Major issues in Data Mining	25/11/20	
14	Data Warehousing: Overview of concepts like star schema	26/11/20	
15	fact and dimension tables, OLAP operations	28/11/20	

UNIT-II Data Preprocessing

CO2: Design systems for sourcing and structuring data to provide an integrated, non-volatile collection of data for decision support using data warehouses

TB: Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

16 17	UNIT-II Data Preprocessing: Why? Descriptive Data	30/11/20,	
16,17	Summarization	1/12/20	Lecture interspersed
18,19	Data Cleaning: Missing Values, Noisy Data, Data	2/12/20,	with discussions
10,19	Integration and Transformation	3/12/20	
'1/1 '11	Data Reduction:-Data Cube Aggregation, Dimensionality	14/12/20,	
	reduction	15/12/20	
22	, Data Compression, Numerosity Reduction ,Data Discretization	17/12/20	
23,24,2	Concept hierarchy generation for numerical and categorical	18/12/20,	
23,24,2	data	19/12/20	
3		21/12/20	

UNIT -III Mining Frequent Patterns

CO3: Design multidimensional data models and implement them using star schemas and relational databases

TB: Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

	Associations, and Correlations, Market Basket Analysis	22/12/20,	
26,27,28		23/12/20,	
		24/12/20	
29	Frequent items, Closed Itemsets, and Association Rules	26/12/20	Lecture interspersed

20.21	Frequent Pattern Mining	28/12/20	with discussions
30,31		29/12/20	
32	Efficient and Scalable Frequent Itemset Mining Methods	30/12/20	
33,34	The Apriori Algorithm for finding Frequent Itemsets Using	31/12/20,	
33,34	Candidate Generation	2/01/21	
35,36	Generating Association Rules from Frequent Itemsets,	4/01/21	
33,30	Improving the Efficiency of Apriori	5/01/21	
	Itemsets without Candidate Generation using FP Tree,	6/01/21	
37,38	Mining Multilevel Association Rules, Mining Multidimensional Association Rules	7/01/21	
39,40	From Association Mining to Correlation Analysis,	9/01/21,	
,	Constraint-Based Association Mining	9/01/21	

UNIT -IV Classification & Prediction

CO4: Communicate and foster realistic expectations of the role of OLAP technology and business intelligence systems in management and decision support

CO5: Explain the need for evolutionary development approaches to developing business intelligence and data warehouse systems

TB. Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

No. of Period	TOPIC	Date	Mode of Delivery
41,42	Issues regarding Classification and prediction	11/01/21	
,		12/01/21	
43,44	Classification methods: Decision tree	18/01/21	
15,11		19/01/21	
45	Bayesian Classification	20/01/21	Lecture interspersed
46,47	Rule based Prediction	21/01/21	with discussions
70,77		23/1/21	with discussions
48	Linear and non linear regression	25/1/21	
49	Accuracy and Error measures	27/1/21	
50	Evaluating the accuracy of a Classifier or Predictor	28/1/21	

UNIT -V Mining Stream and Sequence Data

CO6: Develop a simple business intelligence system using an OLAP tool

CO7: Apply theories and principles of data visualization to encourage high quality analysis of business information to inform decision making

TB: Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

51,52	Classification, Clustering Association Mining in stream data	29/1/21 30/1/21	
53,54	Mining Sequence Patterns in Transactional Databases, Spatial Data and Text Mining: Spatial Data Cube Construction	1/2/21, 1/2/21	
55,56,57	Spatial OLAP, Mining Spatial Association and Co-location Patterns	2/2/21, 2/2/21, 3/2/21	Lecture interspersed with discussions
58,59,60	Spatial Clustering Methods, Spatial Classification and Spatial Trend Analysis	3/2/21, 4/2/21 5/2/21	with discussions
61,62	Text Mining Text Data Analysis and Information Retrieval,	6/2/21, 8/2/21,	
63	Tutorial	9/2/21	

UNIT -VI Web Mining

CO1: CO8: Design governance mechanisms for the development and management of business intelligence and data warehouse systems in an organization

TB: Han, Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann 2 nd Edition

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64,65	Web Content Mining,	10/2/21	
04,03		11/2/21	
	Web Structure Mining	12/2/21,	
66,67		12/2/21	
68	Web Usage mining,	13/2/21,	
69	Automatic Classification of web Documents	15/2/21	Lecture interspersed
70	Data Mining for Business Intelligence Applications: Data mining for business Applications like Balanced Scorecard	16/2/21	with discussions
71	Fraud Detection, Click stream Mining	17/2/21	
72	Market Segmentation, retail industry	18/2/21	
73	telecommunications industry,	19/2/21	
74	banking & finance and CRM etc1	19/2/21	

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SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSION PLAN: R1641054 MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS

	ec A & B	Date: 17/08/2020 BRANCE	+-ZT Page No: 0	1 of 03
Revision No			^_ Approved	By : HOD
ools : Black b	oard, PPTs			
No. of Periods		TOPIC	Date	Mode of Delivery
JNIT –I		DUCTION TO MANAGERIAL EC		
		ne student with basic knowledge		
		economics tools, concept of demand		ticity of demar
ypes of elas	ticity mea	surements of elasticity and demand	forecasting.	
B :: A.R.A	rya sri, "N	Managerial Economics & Financial	Analysis", 2005, TMH	Ι.
1.	Introduct	ion to Managerial Economics, Definition		
		ristics of ME		
2.		nd Scope of Managerial Economics	17-08-2020	
3.		ial Economics related to Other Areas	18-08-2020	
4.		onomic Tools in ME	18-08-2020	Lecture
5.	of Demar		Features 19-08-2020	intersperse with
6.		ants of Demand	20-08-2020	discussions
7.		Demand & Its exceptions, Demand Function	on 21-08-2020	
8.		ion to Elasticity of Demand	24-08-2020	
9.		Elasticity of Demand	25-08-2020	
10.		price Elasticity of Demand	26-08-2020	
11.		ment of Price Elasticity of Demand	27-08-2020	
12.		ion Demand Forecasting	30-08-2020	
13.		ace of Demand Forecasting	01-09-2020	
14.	Demand 1	Forecasting Methods	03-09-2020	
			& 04-09-	
1.5	700		2020	
15.	Tutorial	TION, PRODUCTION FUNCTIO	04-09-2020	

discussions

07/09/2020

10/09/2020

09/09/2020

14/09/2020

variable factor

variable factors

Law of Variable Proportions

Concept of Isocosts, Isoquants

MRTS, Least Cost Combination

Factors of production, production function with two

18.

19.

20.

21.

No. of Periods	TOPIC	DATE	Mode of Delivery	
22.	Cobb-Douglas Production Function	14/09/2020		
23.	Economies of Scale & diseconomies of scale	15/09/2020	Lecture interspersed with discussions	
24.	Returns to Scale & returns to factors	15/09/2020		
25.	Concept of cost & Various Cost Concepts	16/09/2020		
26.	Introduction to Break Even Analysis	18/09/2020		
27.	Determination of Break Even Point with Graph	18/09/2020		
28.	Calculation of Break Even Point (BEP) algebraic method	30/09/2020		
29.	Tutorial	30/09/2020		
different mark	MARKETS AND COMPETITION, PRICIN owledge about market, types of markets, competition et conditions, And various pricing methods. sri, "Managerial Economics & Financial Analysis",	on, price dete	rmination under	
30.	Introduction to Markets: Meaning & Definition, Features	01/10/2020		
31.	Types of markets, market structure	02/10/2020		
32.	Price Determination under perfect competition	03/10/2020		
33.	Equilibrium point of firm and industry	05/10/2020		
34.	Price Determination under Monopoly	07/10/2020		
35.	Equilibrium point of firm and industry in monopoly	12/10/2020	Lecture interspersed with discussions	
36.	Price Determination under Monopolistic Competition	12/10/2020		
37.	Price Determination under Oligopoly	13/10/2020		
38.	Managerial Theories of the Firm	13/10/2020		
39.	Marries and Williamson theory of firm	14/10/2020		
40.	Pricing, pricing objectives.	14/10/2020		
41.	Various Methods of Pricing	16/10/2020		
stock compani	FORMS OF BUSINESS ORGANIZATIONS AND lerstand about business, types of business like sole tries, business cycle. sri, "Managerial Economics & Financial Analysis",	ader ship, par 2005, TMH	YCLE tnership, joint	
42.	Introduction to Business: Definition, Features	16/10/2020		
43.	Sole Proprietorship : Features, Merits, Demerits	17/10/2020		
44.	Partnership: Features, Merits, Demerits, kinds of partners	17/10/2020	Lecture	
45.	Joint Stock Company: Features, Merits, Demerits	19/10/2020	interspersed	
46.	Public limited and private limited companies, features	19/10/2020	with discussion	
47.	Public Enterprises: Features, Merits, Demerits	20/10/2020		
48.	Phases of Business Cycles	20/10/2020 & 21/10/2020		

UNIT - V INTRODUCTION TO FINANCIAL ACCOUNTING

CO5: TO know and understand about accounting process, types of accounts, principles of accounting, preparation of journal, ledger, trail balance and final accounts with

No. of Periods	TOPIC	DATE	Mode of Delivery	
49.	Introduction to Accounting : Meaning & Definition, Classification of Accounts	25/10/2020		
50.	Accounting Process	30/10/2020		
51.	Principles of accounting(GAAP)	03/11/2020		
52.	Accounting cycle	03/11/2020	Tastuma	
53.	Preparation of Journal : Problems	04/11/2020	Lecture interspersed	
54.	Preparation of Ledger : Problems	05/11/2020	with discussions	
55.	Preparation of Trail Balance : Problems	05/11/2020		
56.	Final Accounts (Trading ,profit & loss A/C, Balance Sheet)	06/11/2020		
57.	Final Accounts with Adjustments	06/11/2020		
58.	Treatment of adjustments in preparation of final accounts.	06/11/2020		
59.	Introduction to Financial Statement Analysis: Importance, Objectives.	09/11/2020		
60.	Classification of Ratios : Liquidity Ratios	10/11/2020	Lecture	
61.	Classification of Ratios : Activity Ratios	12/11/2020	interspersed	
62.	Classification of Ratios : Solvency Ratios	12/11/2020	with discussions	
63.	Classification of Ratios :Profitability Ratios	12/11/2020		
64.	Preparation of Changes in Working Capital	13/11/2020		
65.	Preparation of Funds Flow Statement	13/11/2020		
66.	Preparation of Cash Flow Statement	13/11/2020		
67.	Introduction to Capital Budgeting: Meaning, Definition, Need.	14/11/2020		
68.	Methods of Capital Budgeting: Pay Back Period (PBP),	14/11/2020		
69.	Calculation of Accounting Rate of Return (ARR)	15/11/2020	Lecture	
70.	Calculation of Net Present Value (NPV)	16/11/2020	interspersed	
71.	Calculation of Internal Rate of Return (IRR)	19/11/2020	with discussions	
72.	Calculation of Profitability Index	23/11/2020		
73.	Merits and Demerits of Capital Budgeting Techniques.	25/11/2020		
74.	Previous QP problems solution	25/11/2020		

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TENTATIVE PLAN: R164105B

Course Title: INF	ORMATION RETRIEVAL SYSTEM(R16410	5B)
Section : IT	Date: 02/11/20	AY:2020-2021
Revision No: 00	Prepared By : A.Veda Sri	Approved By : HOD

No. of	TOPIC	Date	Mode of Delivery	
Periods				

Introduction to Information Storage and Retrieval System UNIT -I

CO1: Identify basic theories in information retrieval systems

TB: Frakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Structures and Algorithms, Prentice Hall, 1992.

1.	Introduction to Information Storage and Retrieval System	02/11/20	
2.	Domain Analysis of IR SYSTEMS	3/11/20	
3.	Functional view of paradigm IR system	4/11/20	
4.	other types of Information Systems	5/11/20	
5,6	IR System Evaluation	6/11/20 7/11/20	Lecture interspersed
7	Introduction to Data Structures and	9/11/20	with discussions
8	Strings and Distance	10/11/20	
9,10	Algorithms related to Information Retrieval	11/11/20 12/11/20	
11,12	Data structures	13/11/20 16/11/20	
13,14	Algorithms	17/11/20 18/11/20	

TENTATIVE PLAN: R164105B

Course Title: INF	ORMATION RETRIEVAL SYSTEM(R164105B)
Section : IT	Date: 02/11/20	AY:2020-2021
Revision No: 00	Prepared By : A.Veda Sri	Approved By : HOD

Date Mode of Delivery

Tools: Black board, PPTs

No. of

lentify the analysis tools as they apply to information		
	19/11/20	
Structures used in Inverted Files	20/11/20 21/11/20	Lecture interspersed
Building Inverted file using a sorted array	23/11/20	with discussions
	24/11/20	
1	akes, W.B., Ricardo Baeza-Yates: Information ms, Prentice Hall, 1992. Introduction to Inverted files Structures used in Inverted Files	II Inverted files dentify the analysis tools as they apply to information retrieval sakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Sams, Prentice Hall, 1992. Introduction to Inverted files Structures used in Inverted Files 20/11/20 21/11/20

CO3: Understands the problems solved in current IR systems

TOPIC

TB: Software testing techniques - Boris Beizer, Dreamtech, second edition

23	Introduction Signature Files	30/11/20	
24	Concepts of Signature Files	01/12/20	
25	Compression	02/12/20	
26	Vertical Partitioning	03/12/20	

27,28	Vertical partition with compression	04/12/20 05/12/20	
29,30	Compressed bit slice	07/12/20	Lecture interspersed
27,50	370 W. W. W. W.	08/12/20	The Control of the C
31.32	Double compressed bit slice	09/12/20	with discussions
31,32		10/12/20	
33.34	Horizontal Partitioning	11/12/20	
33,34	ang at the second secon	12/12/20	

TENTATIVE PLAN: R164105B

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AY:2020-2021
Approved By: HOD

No. of	TOPIC	Date	Mode of Delivery
Periods			·
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UNIT -IV New Indices for Text

CO4: Describes the advantages of current IR systems

TB: Frakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Structures and Algorithms, Prentice Hall, 1992.

No. of Periods	TOPIC	Date	Mode of Delivery
35	New Indices for Text	14/12/20	
36	Pat tree construction	15/12/20	
37	Introduction to PAT Trees	16/12/20	
38	PAT Arrays	17/12/20	
39,40	PAT Tree structure	18/12/20 19/12/20	Lecture interspersed with discussions
41,42	Algorithms on the PAT Trees	21/12/20 22/12/20	
43,44	Building PAT trees as PATRICA Trees	23/12/20 24/12/20	
45	PAT representation as arrays	26/12/20	
46	Searching PAT tree as array	28/12/20	
47	Building Pat tree in memeory	29/12/20	

UNIT -V Stemming Algorithms

CO5: Understand the difficulty of representing and retrieving documents.

TB: Frakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Structures and Algorithms, Prentice Hall, 1992.

48	Introduction to Stemming Algorithms	30/12/20	
49	Pat tree structure	04/01/21	
50,51	Stemming Algorithm Introduction	05/01/21 06/01/21	Lecture interspersed
52,53	Types of Stemming Algorithms	07/01/21 08/01/21	with discussions
54,55	Experimental Evaluations of Stemming to Compress Inverted Files	11/01/21 12/01/21	

UNIT -VI Thesaurus Construction

CO6: Understand the latest technologies for linking, describing and searching the web TB: Frakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Structures and Algorithms, Prentice Hall, 1992.

56,57	Thesaurus	Construction		18/01/21	manufaction of the contract of
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		19/01/21	1
58,59	Introduction to Thesaurus Construction	20/01/21	
		21/01/21	I coture interespond
60,61	Features of Thesauri	22/01/21	Lecture interspersed
,		01/02/21	with discussions
62,63	Normalization of vocbulary	02/02/21	
		03/02/21	
64,65	Thesaurus Construction	04/02/21	
- Linear	AT AT SECTION OF THE	05/02/21	
66,67	Manual theasure construction	06/02/21	
		08/02/21	
68,69	Automatic theasure construction	10/02/21	
		11/02/21	
70,71	Thesaurus construction from Texts	12/02/21	
		15/02/21	
72,73	Oraganization of Vocabulary	16/02/21	
		17/02/21	
74,75	Merging existing Thesauri	18/02/21	
		19/02/21	

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TENTATIVE LESSON PLAN: R164105E

Course Title: SOFTWARE PROJECT MANAGEMENT(R164105E)				
Section : IT Year /Sem : IV/I	Date: 06-04-2021	AY: 2020-21		
Revision No : 00	Prepared By: M.SURESH BABU, Assistant Professor	Approved By : HOD		

Tools: Black Board, PPT, Video Lectures

UNIT-I: Introduction Project.

CO1: To study how to plan and manage projects at each stage of the software development life cycle (SDLC).

TB: Software Project Management, Bob Hughes & Mike Cotterell, TATA Mcgraw-Hill.

No.of Periods	Topic	Date	Mode of delivry
1	Project, Management,	2/11/2020 .	,
2	Software Project Management activities	3/11/2020	
3 .	Challenges in software projects,	4/11/2020	
4,5	Stakeholders, Objectives & goals	5/11/2020	Lecture with discussions
6,7	Project Planning: Step-wise planning,	6/11/2020	
8	Project Scope, Project Products & deliverables,	9/11/2020	
9,10	Project activities, Effort estimation, Infrastructure	10/11/20	

UNIT-II: Project Approach

CO2: To train software project managers and other individuals involved in software project planning and tracking and oversight in the implementation of the software project management process.

TB: "Neural Networks: A comprehensive foundation", Second Edition, Pearson Education Asia.

11,12	Lifecycle models,	19/11/20	
13,14	Choosing Technology,	20/11/20	
15	Prototyping	23/11/20	
16	Iterative & incremental Process Framework:	24/11/20	Lecture with discussions
17	Lifecycle phases,	25/11/20	
18	Process Artefacts	26/11/20	
19	Process workflows	27/11/20	

UNIT-III: Effort Estimation & Activity Planning

CO1: To train software project managers and other individuals involved in software project Planning and tracking and oversight in the implementation of the software project Management process.

TB: Software Project Management, Bob Hughes & Mike Cotterell, TATA Mcgraw-Hill.

Effort estimation & activity Planning	04/12/20	
Estimation techniques,	07/12/20	
Function Point analysis, SLOC, COCOMO	09/12/20	Lecture with
Use case-based estimation, Activity Identification Approaches	11/12/20	discussions
Network planning models	12/12/20	
Critical path analysis	14/12/20	
	Function Point analysis, SLOC, COCOMO Use case-based estimation, Activity Identification Approaches Network planning models	Estimation techniques, 07/12/20 Function Point analysis, SLOC, COCOMO 09/12/20 Use case-based estimation, Activity 11/12/20 Identification Approaches Network planning models 12/12/20

UNIT-IV: Risk Management

CO1: To study how to plan and manage projects at each stage of the software development life cycle (SDLC)

TB: Satish Kumar, "Neural Networks: A classroom approach", Tata McGraw Hill, 2004.

27	Risk categories,	21/12/20	
28	Identification, Assessment	23/12/20	
29	Planning and management,	28/12/20	Lecture with
30	PERT technique,	30/12/20	discussions
31	Functional approximation with back propagation	02/1/21	
32	Monte Carlo approach.	04/01/21	

UNIT-V: Project Monitoring & Control, Resource Allocation

CO5: To understand successful software projects that support organization's strategic goals.

TB: Software Project Management, Bob Hughes & Mike Cotterell, TATA Mcgraw-Hill

33	Progress monitoring,	05/01/21	
34	Cost monitoring,	06/01/21	
35	Earned value Analysis,	07/01/21	Lecture with
36	Defects Tracking	08/01/21	discussions
37	Issues Tracking,	09/01/21	
38	Status reports,	12/01/21	

39,40	Types of Resources	12/01/21	
41,42	Identifying resource requirements,	18/01/21	
43	Resource scheduling	19/01/21	renew man
44	Planning Quality	21/01/21	
45	Defining Quality	23/01/21	
46	ISO 9016	23/01/21	

UNIT-VI: Software Quality

CO6: To understand successful software projects that support organization's strategic goals.

TB: Software Project Management in practice, Pankaj Jalote, Pearson.

47,48	Quality Measures	4/2/21, 5/2/21	
49,50	Quantitative Quality Management	8/2/21	
51,52	Quantitative Quality Management Planning	9/2/21	
53,54	Product Quality	10/2/21, 11/2/21	
55,56	Process Quality Metrics	12/2/21, 15/2/21	Lecture with discussions
57,58	Statistical Process Control	16/2/21, 17/2/21	440440010110
59,60, 61	Capability Maturity Model	18/2/21, 19/2/21, 19/2/21	
62,63, 64	Enhancing software Quality.	20/2/21	

Faculty/Date

SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108 HOD/Dat 2/1/20