Vijaya College, RV Road, Bengaluru-560004 Department of Computer Science

CURRICULAR ASPECTS for the academic year 2022-2023(ODD SEMESTER)

Name of the Department	Computer Science	Subject Title	Teacher
Semester	I BCA	CA-C3T: DATA STRUCTURES	KMS
Week/Month & Date (Preferably)	Day	Portions Planned for 3 hour per week	
2nd week of sep 2022	1	UNIT-I Introduction and Overview: Definition, Elementary data organization,	KMS
	2	Data Structures, data Structures operations, Abstract data types	KMS
	3	Preliminaries: Mathematical notations and functions, Algorithmic notations, control structures,	KMS
3rd week of sep	1	Arrays: Definition, Linear arrays, arrays as ADT	KMS
2022	2	Representation of Linear Arrays in	KMS

Academic Planner with unitisation of the Entire Syllabus

		Memory,	
		Traversing	
		Linear arrays,	KMS
	3	Inserting and deleting,	
		Multi-dimensional arrays,	
	1	Matrices and	KMS
	1	Sparse matrices	
		algorithms complexity,	KMS
Ath weak of	2	time-space trade off.	
sep 2022		[ASSIGNMENT 1- GIVEN]	
	3	UNIT-II Linked list: Definition,	KMS
		Representation of Singly Linked List in memory,	
		Traversing a Singly linked list	KMS
	1	, Searching in a Singly linked list,	
		Memory allocation,	
		Garbage collection	
1st Week of oct 2022	2	Insertion into a singly linked list,	KMS
	2	Deletion from a singly linked list;	
	3	Doubly linked list,	KMS
		Header linked list, Circular linked list.	
2nd week of	1	Stacks: Definition,	KMS

oct 2022		Array representation of stacks,	
		Linked representation of stacks,	
		Stack as ADT,	KMS
		Arithmetic Expressions: Polish	
	2	Notation,	
		Conversion of infix expression to	
		postfix expression	
		Evaluation of Post fix expression,	KMS
		Application of Stacks,	
	3	Recursion,	
		Towers of Hanoi.	
		Implementation of recursive	KMS
	1	procedures by stack.	NIVIS
		Queues: Definition,	
		Array representation of queue,	
3rd week of		Linked list representation of queues.	
oct 2022	2	Types of queue : Simple queue,	KMS
		Circular queue,	
		Operations on Oueues.	KMS
	3		
		Applications of queues	
4th week of oct 2022		UNIT-III Binary Trees:	KMS
	1	Definitions,	
		Tree Search,	

		Traversal of Binary Tree,	
		Tree Sort,	KMS
	2	Building a Binary Search Tree,	
		Contiguous Representation of Binary Trees	
		Heaps,	KMS
	3	Lexicographic Search Trees: Tries,	
5 th week of oct 2022	1	Graphs: Mathematical Back ground, Computer Representation, Graph Traversal,	KMS
	2	UNIT-IV Searching: Introduction and Notation, Sequential Search, Binary Search	KMS
	3	Comparison of Methods. Sorting: Introduction and Notation, [ASSIGNMENT-2 GIVEN]	KMS
1st Week of Nov 2022	1	Selection Sort, Shell Sort,	KMS

	2	Merge sort for Linked List, Quick sort for	KMS
	3	Contiguous List. Hashing: Sparse Tables,	KMS
	1	Collision Resolution with Open Resolution by Chaining	KMS
2nd Week of Nov 2022	2	Choosing a Hash function, Insertion Sort, Addressing, Collision	KMS
	3	Divide And Conquer Topological Sorting	KMS
3rd week of Nov 2022	1	Double-ended queue, Priority queue	KMS
	2	External Searching: B-Trees, Applications of Trees	KMS
	3	Height Balance AVL Trees,	KMS
4th week of Nov 2022	4	Complexity of algorithms, asymptotic notations for complexity of algorithms.	KMS
1st Week of	1	[REVISION 1]	KMS

Dec 2022		Array representation of queue, Linked list representation of queues	
2nd Week of Dec 2022	2	[REVISION-2]ArithmeticExpressions:PolishNotation,Conversionofinfixexpressiontopostfixexpression	KMS
3 rd week of Dec 2022	3	[REVISION-3] Traversing a Singly linked list searching in a Singly linked list, Memory allocation	KMS
4 th week of Dec 2022	4	Class test conducted	kms

Department of Computer Science

Academic year-2022-2023

1. Academic Planner with unitisation of the Entire Syllabus (on hourly

basis)

Name of the Department	Computer Science	Subject Title	Teacher
Semester	1 BCA	CA-C1T:DISCRETE STRUCTURES	MGB
Week/Month	Day	Portions Planned for 1 hour	
	1	UNIT – I Set Theory and Logic: Fundamentals of Set theory, Set Operations	MGB
2 nd week of	2	Laws of Set Theory	MGB
OCT 2021	3	Counting and Venn Diagrams	MGB
	1	EXAMPLE problems onCounting and Venn Diagrams	MGB
3 rd Week of OCT	2	Relations, problems on relations, types of relations	MGB
	3	Functions–One-to-One, Onto Functions, Function Composition and Inverse Function	MGB
	1	Mathematical Induction, The well ordering principle	MGB
4 th Week of OCT	2	, Recursive Definitions, Structural Induction, Recursive algorithms	MGB
	3	Fundamentals of Logic, Propositional Logic,	
	1	Logical Connectives and Truth Tables,	MGB
1 st week of NOV	2	Logic Equivalence, Predicates and Quantifiers, Nested Quantifiers	MGB
	3	Rules of Inference, Introduction to Proofs. Proof Methods	MGB

		and strategy.	
		UNIT - II :Counting and Relations: Basics of counting, Pigeonhole	MGB
and 1 CNOV	1	Principle	
2 th week of NOV			
	2	Permutation and	MGB
	2		
	3	Combinations ,Binomial coefficients	MGB
	1	Recurrence relations, Modeling with recurrence relations	MGB
3 rd week of NOV	L L	with examples of Fibonacci numbers	
	_	Divide and Conquer relations with examples (no theorems).	MGB
	2	Definition and types of relations, Representing relations	
		using matrices and digraphs	
	3	Matrices: Definition, order of a matrix, types of matrices	MGB
	1	operations on matrices, determinant of a matrix,	MGB
	1		
4 th week of NOV	2	inverse of a matrix, rank of a matrix,	MGB
			MCD
	3	linear transformations,	MGB
		applications of matrices to solve system of liner equations	MGB
	1		
1 st week of DEC		Craph Theory Craphs Introduction Depresenting Craphs	MCP
	2	G	IVIGB
		Graph Isomorphism Operations on graphs Trees:	MCB
	3	Introduction Applications of Trees Tree Traversa	WIGB
		introduction, Applications of frees, free fraversa	
		Spanning Trees, Minimum Spanning Trees, Prim's and	MGB
	1	Kruskul's Algorithms	
2 nd week of DEC	2	Connectivity Euler and Hamilton Paths, Planar Graphs	MGB
	2		
	3	Directed graphs: Fundamentals of Digraphs	MGB
	1	Computer Recognition - Zero-One Matrices and Directed	MGB
	L L	Graphs, Out-degree, in-degree, connectivity, orientation,	
		Eulerian and Hamilton directed graphs, tournaments.	
3 rd week of DEC	2	Test1	MGB

3	Discussing previous year question paper	MGB

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Academic year-2022-2023

Name of the	Computer	Subject Title	Teacher
Department	Science	Subject The	reacher
Semester	1 SEM/BCA	CA-C2T: PROBLEM SOLVING TECHNIQUES	NS
Week/Month	Day	Portions Planned for 1 hour	
	1	Introduction: The Role of Algorithms in Computing	NS
2nd week of sep	2	Algorithms as a technology	NS
2022	3	Analyzing algorithms	NS
	1	Designing algorithms	NS
3rd week of sen	2	Growth of Functions	NS
2022	3	Asymptotic notation	NS
	1	Standard notations and common functions.	NS
Athan 1 60 2022	2	Fundamental Algorithms: Exchanging the values of two variables, Counting.	NS
4 Week of Sep 2022	3	Summation of a set of numbers	NS
	1	Factorial Computation	NS
	2	Generating of the Fibonacci sequence	NS
1 st week of Oct 2022	3	Reversing the digits of an integer	NS

	1	Character to number conversion	NS
2 nd week of oct 2022	2	C Programming: Getting Started, Variables and Arithmetic expressions.	NS
	3	Input and Output: Standard input and output	NS
	1	Formatted output- printf, variable length argument list	NS
3 rd week of Oct 2022	2	formatted input-scanf	NS
	3	Control Flow: Statements and Blocks, If-else, else-if	NS
	1	Control Flow: switch	NS
4 th week of Oct	2	loops: while loop	NS
2022	3	for loop	NS
	1	do while	NS
	2	break and continue	NS
5 th week of Oct 2022		goto and labels	NS
	3		
	1	Pointers and Arrays	NS
	2	pointers and address	NS
1 st week of Nov 2022	3	pointers and function arguments	NS
	1	multidimensional array, initialization of pointer arrays, command line arguments	NS
	2	Factoring Methods: Finding the square root of a number	NS
2nd week of Nov 2022	3	the smallest Divisor of an integer	NS
	1	INTERNALS	NS
3rd week of Nov	2	the greatest common divisor of two integers, computing the prime factors of an integer	NS
2022	3	generation of pseudo random numbers, raising a number to a large power.	NS
	1	Array Techniques: Array order Reversal, Array counting or Histogramming	NS
	2	Finding the maximum number in a set	NS

4th week of Nov	3	removal of duplicates from an ordered array, partitioning an array	NS
	1	Finding the kth smallest element	NS
	2	multiplication of two matrices.	NS
1st week of Dec 2022	3	Merging: the two-way merge. Sorting: Sorting by selection, sorting by exchange, sorting by insertion	NS
	1	sorting by diminishing increment, sorting by partitioning	NS
2 nd week of Dec	2	Searching: binary search, hash search	NS
2022	3	Text processing and Pattern searching: text line length adjustment, keyword searching in text, text line editing, linear pattern search	NS
	1	REVISION	NS
3 rd week of Dec			
2022	2	REVISION	NS
	3	REVISION	NS
4 th week of Dec 2022	1	CLASS TEST	
	2	CLASS TEST	NS
	3	TEST	NS

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Academic year-2022-2023

Name of the	Computer	Subject Title	Teacher
Department	Science	Subject file	reacher
Semester	3 SEM/BCA	CA-C3T: COMPUTER NETWORKS	NS
Week/Month	Day	Portions Planned for 1 hour	
	1	Introduction: Networks, Network Types, Internet History,	NS
2nd week of sep	2	Standards and Administration, Network Models: Protocol Layering, TCP/IP Protocol Suite,	NS
	3	The ISO Model.	NS
	1	Introduction to physical layer : Data and Signals, Transmission impairment, Data rate limits, Performance,	NS
3rd week of sep	2	Transmission media: Introduction, Guided Media, Unguided Media,	NS
2022	3	Switching: Introduction, Circuit Switched Networks, Packet switching	NS
	1	introduction to Data Link Layer : Introduction, Link layer addressing, Error detection and Correction:	NS
4 th Wook of Son 2022	2	Fundamental Algorithms: Exchanging the values of two variables, Counting.	NS
4 Week of Sep 2022	3	Cyclic codes, Checksum, Forward error correction, Data link control: DLC Services,	NS
	1	Datalink layer protocols, HDLC, Point to Point Protocol,	NS
1 st week of Oct	2	Media Access control: RandomAccess,	NS
2022	3	Controlled Access, Channelization,	NS
	1	The Network Layer: Network layer design issues,	NS
2 nd week of oct 2022	2	Congestion control algorithms,.	NS
	3	The network layer in the Internet:	NS
	1	Quality of service,	NS

3 rd week of Oct 2022	2	IPV6	NS
2022	3	IPV4Addresses,,	NS
	1	Internet Control protocol,	NS
4 th week of Oct	2	OSPF	NS
2022	3	BGP	NS
	1	IP,	NS
	2	ICMPv4,	NS
5 th week of Oct 2022	3	IGMP	NS
	1	Performance problems in computer networks,	NS
	2	Internetworking,	NS
1 st week of Nov 2022	3	Routing algorithms,	NS
	1	Routing algorithms,	NS
	2	LANs: ConnectingDevices.	NS
2nd week of Nov 2022	3	Connecting devices and virtual	NS
	1	Connecting devices and virtual	NS
3rd week of Nov	2	Control, The internet transport protocols:	NS
2022	3	. Control, The internet transport protocols:	NS
	1	UDP,	NS
	2	ТСР	NS
4th week of Nov	3	Network performance measurement	NS
	1	Introduction to Application Layer: Introduction,	NS
1st week of Dec	2	Client Server Programming,	NS
2022	3	WWW andHTTP,	NS
2 nd week of Dec 2022	1	FTP, e-mail,	NS

	2	TELNET, Secure Shell,	NS
	3	Domain Name System, SNMP	NS
3 rd week of Dec 2022	1	REVISION	NS
	2	REVISION	NS
	3	REVISION	NS
4 th week of Dec 2022	1	CLASS TEST	
	2	CLASS TEST	NS
	3	TEST	NS

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Name of the	Computer	Subject Title	Teacher
Department	Science		
Semester	III	CA-C11T: OPERATING SYSTEMS	
Week/Month	Day	Portions Planned for 1 hour	
	1	UNIT - I Introduction	JK
1 st Week of Nov	2	Computer System Organization, Architecture, Structure	JK
	3	Process Management	JK
2 nd Week of Nov	1	Memory Management	JK
	2	Storage Management	JK
	3	Kernel Data Structures	JK
3rd Week of Nov	1	Computing Environments	JK
	2	Operating System Structures: Services, System Calls	JK
	3	Types, Operating System Structure, System Boot	JK

	1	Processes: Process Concept, Scheduling	JK
4 th Week of Nov	2	Operations, Interprocess Communication	JK
	3	Multithreaded Programming: Multicore Programming, Multithreading Models	JK
	1	UNIT –II Process Synchronization	JK
1 st Week of Dec	2	The Critical-Section Problem, Peterson's Solution	JK
	3	Synchronisation Hardware, Mutex Locks	JK
	1	Semaphores, Classic Problems of Synchronization	JK
	2	Monitors, Synchronization Examples	JK
2 nd Week of Dec	3	Process Scheduling: Criteria, Scheduling Algorithms	JK
	1	Multi-Processor Scheduling	JK
3 rd Week of Dec	2	Real-time CPU Scheduling	JK
	3	Deadlocks: System model, Characterization	JK
	1	Methods for handling deadlocks	JK
4 th Week of Dec	2	Deadlock Prevention, Avoidance, Detection and Recovery from deadlock	JK
	3	Assignment 1 – covering all the above topics	JK
	1	UNIT – III Memory Management Strategies	JK
1 st Week of Jan	2	Background, Swapping, Contiguous Memory Allocation	JK
	3	Segmentation, Paging	JK
	1	Structure of the Page Table. Virtual Memory Management	JK
2 nd Week of Jan	2	Demand Paging, Copy-on-Write	JK
	3	Page Replacement; Allocation of Frames	JK
	1	Thrashing, Memory-Mapped Files	JK
3 rd Week of Jan	2	Allocating Kernel Memory.	JK
	3	File System: File Concept, Access Methods	JK
4 th Week of Jan	1	Directory and Disk Structure, Protection, File-System Implementation: Structure	JK

	2	Internal Assessment	JK
	3	UNIT – IV File-System and Directory Implementation	JK
	1	Allocation Methods, Free Space Management	JK
1 st Week of Feb	2	Efficiency and Performance, Recovery	JK
	3	Mass-Storage Structure: Overview, Disk Scheduling	JK
	1	Disk Management, Distributed Systems: Advantages	JK
2 nd Week of Feb	2	Types of Network- based OS, Robustness, Design Issues	JK
	3	Distributed File Systems	JK
3 rd Week of Feb	1	Case Studies: The Linux System	JK
	2	Windows 10 (Process, Memory, storage management)	JK
	3	Assignment and Discussion on above topics	JK

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Name of the	Computer	Subject Title	Teacher
	Science		
Semester	III sem BCA	CA-C11T: OPERATING SYSTEMS	HDS
Week/Month	Day	Portions Planned for 1 hour	HDS
	1	Python Programming Language: Introduction, Python Interpreter/Shell, Identifiers, Keywords, Statements and Expressions	HDS
1 st Week of Nov	2	Variables, Operators, Precedence and Associativity, Data types, Indentation, Comments, Reading Input, Print Output,	HDS
	3	Type Conversions, The type() function and Is operator, Dynamic and Strongly Typed Language.	HDS
2 nd Week of Nov	1	Control Flow Statements: The if Decision Control Flow Statement, The ifelse DecisionControl FlowStatement, The ifelifelse Decision Control Statement, Nested if Statement, The while Loop, The for Loop,	HDS
	2	The continue and break Statements. Functions : Built-In Functions, Commonly Used Modules,	HDS
	3	Function Definition and Calling the Function, The return Statement and void Function, Scope and Life time of Variables,	HDS
	1	Default Parameters, Command Line Arguments.	HDS
3rd Week of Nov	2	Strings: Creating and Storing Strings, Basic String operations, Accessing Characters in StringbyIndexNumber,	HDS
	3	String Slicing and Joining, String methods	HDS
4 th Week of Nov	1	Lists: Creating Lists, BasicListOperations, Indexing and Slicing in Lists	HDS
	2	Built-In Functions Used on Lists, List Methods,	HDS
	3	ThedelStatement, Dictionaries: Creating Dictionary, Accessing and modifying key:	HDS
1 st Week of Dec	1	value pairs in Dictionaries, Built-In Functions Used on Dictionaries,	HDS

	2	Dictionary methods, ThedelStatement.	HDS
	3	Tuples and Sets: Creating Tuples,	HDS
	1	Basic Tuple Operations, Indexing and Slicing in Tuples,	HDS
	2	Built-In Functions Used on Tuples, Relations between Tuples and Lists,	HDS
2 nd Week of Dec	3	Relations between Tuples and Dictionaries,	HDS
	1	Tuple Methods, Using zip() Function,	HDS
3 rd Week of Dec	2	Sets, Set Methods, Frozenset.	HDS
	3	Ist internal test	HDS
	1	Creating and Reading Text Data, File Methods to Read and Write Data	HDS
4 th Week of Dec	2	Reading and Writing Binary Files,	HDS
	3	The Pickle module, Reading and writing CSV files	HDS
	1	Object- Oriented Programming:	HDS
1 st Week of Jan	2	Classes and Objects,	HDS
	3	Creating Classes in Python,	HDS
	1	Creating Objects in Python,	HDS
2 nd Week of Jan	2	The Constructor Method	HDS
	3	Classes with Multiple Objects	HDS
	1	Class Attributes versus Data attributes	HDS
3 rd Week of Jan	2	Encapsulation, Inheritance,	HDS
	3	The Polymorphism.	HDS
4 th Week of Jan	1	Data Visualization:	HDS

	2	Generating Data-Installing Matplotlib	HDS
	3	Plotting a Simple Line Graph	HDS
	1	Random Walks	HDS
1 st Week of Feb	2	Rolling Dice with Plotly.	HDS
	3	Downloading Data-	HDS
2 nd Week of Feb	1	The CSV File Format	HDS
	2	Mapping Global Data	HDS
	3	Sets: JSON Format,	HDS
3 rd Week of Feb	1	Working with APIs:	HDS
	2	Using a Web API, Visualizing Repositories Using Plotly.	HDS
	3	Revision classes	HDS

Department of Computer science

NAAC criteria-1: CURRICULAR ASPECTS for the academic year 2022-2023

1. Academic Planner with unitisation of the entire syllabus (on hourly basis)

Semester	V	Paper	BCA504T
Name of the Department	Computer Science	Subject Title	Analysis and Design of Algorithm
Week/Month & Date (Preferably)	Day	Portions Planned	Teacher BEENA N
	1	Introduction to ADA: Algorithm, properties	BN
1 st Week of New 2022	2	Study of algorithms, algorithm examples-GCD:Eculids	BN
I WEEK OF NOV 2022	3	GCD: CICA, repeated subtraction	BN
	4	Control structures	BN
	1	Writing structured programming	BN
	2	Analysis of algorithm, difference between analysis and profiling.	BN
2 rd week of Nov 2022	3	Space complexity – iterative algorithms	BN
	4	Space complexity –recursive algorithms	BN
	1	Time complexity, units of measuring running time.	BN
	2	Time complexity- operation count method	BN
3 rd week of Nov 2022	3	Time complexity-step count method	BN
	4	Asymptotic notations	BN
	1	Mathematical analysis of Non-recursive algorithms- max, uniqueness	BN
4 th week of Nov 2022	2	Mathematical analysis of Recursive algorithms-factorial, Tower of Hanoi problem	BN
	3	Mathematical analysis of Non-recursive algorithms- fibonnaci series. ASSIGNMENT-1	BN
	4	Divide and Conquer- general method, control abstraction.	BN
	1	MaxMin problem	BN
	2	Linear search, Binary Search	BN
1 st Week of Dec 2022	3	Searching analysis	BN
	4	Merge sort	BN

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nd	1	Merge sort analysis	BN
	2	Quick sort	BN
2 ^m Week of Dec 2022	3	Quick sort analysis	BN
	4	Advantages and disadvantages of divide and conquer	BN
	1	Greedy method – general method, control abstraction	BN
ard L C 2022	2	Knapsack problem- objective, algorithm	BN
3 Week of Dec 2022	3	Knapsack problems solving	BN
	4	0/1 knapsack problem	BN
	1	Job sequencing with deadlines ASSIGNMENT-2	BN
	2	Minimum spanning tree – prim's algorithm	BN
4 th week of Dec 2022	3	Minimum spanning tree – Kruskal's algorithm	BN
	4	Single source shortest path – Dijkstra's algorithm.	BN
	1	Single source shortest path-problem solving	BN
	2	Dynamic programming-Introduction to graphs, definition, types	BN
5 th week of Dec 2022	3	Terms related to graphs	BN
	4	Graph representation – adjacency matrix , adjacency list	BN
1 ST Week of Jan 2023		Internal Assessment	BN
	1	Dynamic programming- general method , principle of optimality	BN
and the second	2	Multistage graph- forward approach	BN
2 ^m week of Jan 2023	3	Problem solving using forward approach	BN
	4	Problem solving using backward approach	BN
3 rd week of Jan 2023	1	Problem solving using backward approach	BN
	2	All pair shortest path- Floyd	BN
	3	0/1 knapsack problem ASSIGNMENT-3	BN
	4	Travelling salesman problem	BN
4 th week of Jan 2023	1	Travelling salesman problem	BN

	2	Flow shop scheduling	BN
	3	Basic traversal and search technique-introduction to trees. Basic terminology	BN
	4	Binary tree- definition, properties	BN
	1	Binary tree traversal	BN
	2	Graph traversal and search techniques- Depth-First search	BN
1 st Week of Feb 2023	3	Breath- First search.	BN
	4	Back tracking – control abstraction, general method	BN
	1	8 queen problem	BN
	2	8 queen problem	BN
2 Week of Feb 2023	3	Sum of subsets, graph coloring	BN
	4	Sum of subsets, graph coloring ASSIGNMENT-4	BN
3 rd week of Feb 2023	1	Revision	BN
	2	Revision	BN
	3	Revision	BN
	4	Practise test	BN
4 th week of Feb 2023	1	Revision/test	BN
	2	Revision/test	BN
	3	Revision/test	BN
	4	Revision/test	BN

Department of Computer science

NAAC criteria-1: CURRICULAR ASPECTS for the academic year 2022-2023

Name of the		Course: BCA V Semester	
Department	computer science	Subject Title:	computer science
	science	BCA502T: ARTIFICIAL INTELLIGENCE	
Semester	V	Paper	BCA502T
			2 0.12 02 1
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher
	1	INTRODUCTION OF THE SUBJECT	
est the acces		UNIT-I [13 Hours]	
I ^{**} week Nov 2022	2	Introduction to Artificial Intelligence: Definition,	
	3	AI Applications, AI representation,	
	1	Properties of internal Representation,	
	2	, Heuristic search techniques	
2 nd week Nov 2022	3	Best first search,	
	4	Best first search	
	5	,mean and end analysis,	Hemalatha N
	1	A* and	(HML)
	2	AO* Algorithm	
3rd week Nov 2022	3	Game Playing	
	4	Game Playing	
	5	search procedure	
the Live coord	1	Alpha beta cutoffs. Review questions discussion ASSIGNMENT 1 on unit -1	
4 week Nov 2022	2	UNIT-II [13 Hours]	
	2	Knowledge representation using predicate logic: predicate calculus,	

	3	Predicate and arguments
	4	Knowledge representation using non monotonic logic: TMS (Truth maintenance system),
	5	statistical and probabilistic reasoning
5 TH week Nov 2022	1	fuzzy logic
5 WEEK 100 2022	2	fuzzy logic
	1	structure knowledge representation,
1 st week Dec 2022	2	structure knowledge representation,
	3	semantic net
	1	semantic net
	2	Frames
	3	Script,
2nd week Dec 2022	4	Conceptual dependency. ASSIGNMENT 2 on unit -2
	5	UNIT-III [13 Hours]
	5	Planning: block world,
	1	Strips
	2	Implementation using goal stack,
3 rd week Dec 2022	3	Non linear planning with goal stacks
	4	, Hierarchical planning
	5	list commitment strategy.
	1	Perception: Action
	2	Robot Architecture
4 th week Dec 2022	3	Robot Architecture
	4	, Vision
	5	Texture and images,
	1	representing and recognizing scenes.
5 th week Dec 2022	2	representing and recognizing scenes. ASSIGNMENT 3 on unit -3

	3	UNIT-IV [13 Hours]	
	5	Learning: Learning as induction matching algorithms	
	4	Learning: Learning as induction matching algorithms.	-
			_
	5	Failure driver learning,	
	1	learning in general problem solving concept learning.	
	2	learning in general problem solving concept learning.	
1 st week Jan 2023	3	Neural Networks: Introduction to neural networks	
	4	Neural Networks: Introduction to neural networks	
	5	perception-qualitative Analysis only	
	1	perception-qualitative Analysis only	
	2	, and perception-qualitative Analysis only	
1 st week Jan 2023	3	and perception-qualitative Analysis only	
	4	neural net architecture and applications.	
	5	neural net architecture and applications. ASSIGNMENT 4 on unit – 4	
	ł – – – – – – – – – – – – – – – – – – –		
	1		
	1	Natural language processing and understanding and pragmatic	
and the appart	1	Natural language processing and understanding and pragmatic , syntactic,	-
2 nd week Jan 2023	1 2 3	Natural language processing and understanding and pragmatic , syntactic, semantic,	-
2 nd week Jan 2023	1 2 3 4	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis	-
2 nd week Jan 2023	1 2 3 4 5	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN,	
2 nd week Jan 2023	1 2 3 4 5 1	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN	-
2 nd week Jan 2023	1 2 3 4 5 1 2	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN, , ATN,,	
2 nd week Jan 2023 3 rd Week Jan 2023	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ \end{array} $	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN , ATN,, understanding sentences.	
2 nd week Jan 2023 3 rd Week Jan 2023	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ \end{array} $	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN , ATN,, understanding sentences. Expert system: Utilization and functionality	
2 nd week Jan 2023 3 rd Week Jan 2023	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ \end{array} $	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN , ATN,, understanding sentences. Expert system: Utilization and functionality architecture of expert system,	
2 nd week Jan 2023 3 rd Week Jan 2023	$ \begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 1\\ 2\\ 3\\ 4\\ 5\\ 1\\ 1 \end{array} $	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN , ATN,, understanding sentences. Expert system: Utilization and functionality architecture of expert system, knowledge representation	
2 nd week Jan 2023 3 rd Week Jan 2023 4 th Week Jan 2023	$ \begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 1\\ 2\\ 3\\ 4\\ 5\\ 1\\ 2\\ 1\\ 2 \end{array} $	Natural language processing and understanding and pragmatic , syntactic, semantic, analysis RTN, RTN , ATN,, understanding sentences. Expert system: Utilization and functionality architecture of expert system, knowledge representation two case studies on expert systems. ASSIGNMENT 5 on unit - 5	

	4	Question papers Review	
5 th Week Jan 2023	1	Question papers Review	
	2	Question papers Review	1
1 st Week Feb 2023	1	Question papers Review	
	2	Question papers Review	
	4	Dialog Boxes	
	1	Importing VBX Controls	
4 th week of	2	Files	
December-2020	3	MFC File Handling	
	4	Document View Architecture	
	1	Serialization	
5 th week of	2	Interfacing Other Applications	-
December-2020 and 1 st week of January-	3	Multiple Document Interface (MDI)	
2021	4	ASSIGNMENTS- 3 & 4	
	1	Splitter Windows	
2 nd week of	2	Exception Handling	
January-2021	3	Debugging	
	4	Object Linking and Embedding (OLE)	•
	1	Database Application	
3 rd week of January-2021	2	DLL, ODBC	
	3	TEST-2	
	4	Model Question paper Discussion	

Department of Computer Science

Academic year 2021-2022

BCA503T- JAVA PROGRAMMING

Name of the Department	Computer science	Subject Title	JAVA PROGRAMMING
Semester	V	Paper	BCA
Week/Month & Date(Preferably)	Day	Portions Planned for 1 hour	TEACHER
1 st week of nov 2022	1	Introduction to to JAVA: JAVA Evolution: Java History, Java Features,	BL
	2	How Java Differs from C and C++, Java and Internet,	BL
	3	Java and World Wide Web, Web Browsers, Hardware and Software Requirements,	BL
	4	Java Support Systems, Java Environment.	BL
2nd week of nov 2022	1	Overview of JAVA Language: Introduction, Simple Java program	BL
	2	More of Java Statements, Implementing a Java Program, Java Virtual Machine,	BL
	3	CommandLineArguments,Programming Style	BL
	4	Introduction, Constants, Variables, Data Types	BL
3rd week of nov	1	Declaration of Variables, Giving Values to Variables, Scope of Variables, Symbolic Constants	BL
2022	2	Type Casting, Getting Values of Variables,	BL

		Standard Default Values	
	3	Operators and Expressions:	BL
	4	Introduction, Arithmetic Operators, Relational Operators Logical Operators, Assignment Operators, Increment and Decrement Operators,	BL
4th week of NOV 2022	1	Conditional Operators, Bitwise Operators, Special Operators, Arithmetic Expressions, Evaluation of Expressions	BL
	2	Precedence of Arithmetic Operators	BL
	3	Type Conversion and Associativity, Mathematical Functions. Decision Making and Branching	BL
	4	The Switch Statement, The ?: Operator. Decision Making and Looping:	
5th week of NOV 2022	1	Introduction. The while Statement, The do Statement, The for Statement, Jumps in Loops Labelled Loops.	BL
	2	Unit – II Classes, Arrays, Strings and Vectors: Classes, Objects and Methods: Introduction, Defining a Class, Adding Variables, Adding Methods, Creating Objects	BL
	3	Accessing Class Members, Constructors, Methods Overloading, Static Members, Nesting of Methods	BL
	4	Inheritance: Extending a Class Overriding Methods, Final Variables and Methods,	BL
1st week of dec 2022	1	Finalizer methods, Abstract Methods and Classes, Visibility Control. Arrays, Strings and Vectors: Arrays, Onedimensional Arrays	BL
	2	Creating an Array, Two -Dimensional Arrays, Creating an Array, Two –	BL

		dimensional Arrays, Strings, Vectors,	
		Wrapper Classes.	
	3	Unit - III Interfaces, Packages, and	BL
		Multithreaded Programming:	
		Interfaces: Multiple Inheritance:	
		Introduction,	
	4	Defining Interfaces, Extending Interfaces,	BL
		Implementing Interfaces, Accessing	
		Interface Variables.	
	1		DI
	1	Packages: Putting Classes together:	BL
2 nd week of		Introduction, Java API Packages, Using	
DEC 2022		System Packages, Naming Conventions	
	2	Creating Packages, Accessing a	BL
	_	Package Using a Package Adding a	
		Class to a Package Hiding Classes	
	3	Multithreaded Programming: Introduction	BI
	5	Creating Threads Extending the Thread	DL
		Class	
	4	Stopping and Blocking a thread, Life Cycle	BL
		of a thread, Using Thread Methods	
	1	Thursd Francisco Thursd Deissider	DI
	1	Inread Exceptions, Thread Priority,	BL
3rd week of DEC		Synchronization, Implementing the	
2022		'Runnable' Interface	
2022	2	Unit - IV Managing Exceptions, Applet	BL
		Programming: Managing Errors and	
		Exception: Introduction	
	3	Types of Exception Handling Code, Multiple	BL
		Catch Statements, Using Finally Statement,	
		Throwing Our Own Exceptions, Using	
		Exceptions for Debugging.	
	4	Applet Programming: Introduction How	DI
	4	Applet Flogramming. Introduction, now	DL
		Applets Differ from Applications,	
4th WEEK OF	1	Preparing to Write Applets, Building Applet	BL
DEC 2022		Code, Applet Life Cycle, Creating an	
		Executable applet, Designing a Web Page	
	2	Applet Tag, Adding Applet to HTML	BL
		File, running the Applet	
	3	Test	BL

	4	Test	BL
5th week of dec 2022	1	More About HTML Tags, Displaying Numerical Values,	BL
	2	Getting Input from the User.	BL
	3	Unit - V Graphics Programming, Input/Output: Graphics programming: Introduction	BL
	4	The Graphics Class, Lines and rectangles, circles, and Ellipses,	BL
1st week of jan	1	Drawing Arcs, Drawing Polygons	BL
2022	2	Lines Graphs, Using Control Loops in Applets	BL
	3	Drawing Bar Charts.	BL
	4	Introduction, Concept of Streams	BL
2nd week of jan	1	Byte Stream Classes,	BL
2022	2	Character Stream Classes	BL
	3	Using Streams,	BL
	4	Input / Output Exceptions	BL
3 rd week of jan	1	Creation of Files	BL
2022	2	Displaying Numerical	BL
	3	Assignment1 given	BL
	4	Reading / Writing Bytes	BL
4th week of jan	1	Handling Primitive Data Types	BL
2022	2	Managing Input/Output Files	BL
	3	Assignment 2 given	BL
	4	Other Useful I/O Classes	BL
5th week of jan 2022	1	I/O exceptions	BL

	2	Reader,Writer	BL
	3	Using control loops in applets	BL
	4	Drawing polygons	BL
1st week of FEB 2022	1	Using the File Class	BL
	2	Reading / Writing Characters	BL
	3	Concatenating and Buffering Files	BL
	4	Getting Input from the User	BL
2 nd week of FEB 2022	1	Assignment 3 given	
	2	Interactive Input and output	
	3	Other Stream Classes.	
	4	Explanation of lab programs	
3 rd week of FEB 2022	1	Explanation of lab programs	
	2	Question paper discussion	
	3	Revision	
	4	Question paper discussion	

Vijaya College, RV Road, Bengaluru-560004 Department of Computer science

NAAC criteria-1: CURRICULAR ASPECTS for the academic year 2022-2023

Name of the Department	Computer science	Subject Title	DCN-BCA501T
BCA	V sem	Data Communication and Networks (DCN)	Teacher
Week/Month	Day	Portions Planned for 1 hour	SOWMYA S
	1	Introduction: Communication Network and services	
	2	Approaches to Network Design, Network Functions	
1 st week of Nov	3	Network Topology	SS
2022	4	Message switching	
	5	packet Switching	
	1	circuit Switching	SS
	2	Internet packet switching	
2 nd week of Nov	3	Key factors in Communication Network Evolution	
2022	4	Layered Architecture and Applications – Examples of Layering	
	5	OSI Reference Model	
	1	TCP/IP Model	SS
	2	Telnet FTP and IP Utilities	
	3	IP Utilities and Digital Transmission	
3 rd Week of Nov	4	Digital Representation of Information, Properties of digital transmission	
2022	5	Characterization of Communication Channels	
	1	Frequency Domain and Time Domain	SS
	2	Fundamental limits in Digital Communication – The Nyquist Signalling rate,	
	3	The Shannon channel capacity	
4 th Week of Nov 2022	4	Line coding , Modems	
	5	digital Modulations	
1st week of Dec	1	Transmission Systems: properties of media and digital	SS

2022		transmission Systems – Twisted Pair	
	2	Coaxial Cable, Optical Fibre,	
	2	Dedie Trenewissien Infrand Light Frank detection and	
	3	Radio Transmission infrared Light Error detection and	
		correction – Error detection	
	4	Two – dimensional parity checks, Internet checksum	
	5	Polynomial code; standardized Polynomial codes	
	1	Error detecting capability of a polynomial code	SS
	-	Multiplexing – frequency – Division, Time – Division,	
	2	SONET: Wavelength Division	
		Multiplexing Circuit switches; Telephone network,	
2nd week of Dec	3	signalling Traffic and Overload control in Telephone	
2022		networks	
	4	Concentration, Routing Control	
	~	Overload controls Cellular Telephone Networks, Satellite	
	5	Cellular networks.	
	1	Peer -to-Peer Protocols: - Peer-to peer Protocols and	SS
	1	service models	
	2	ARQ Protocols stop and wait, Go -back-N	
3rd week of Dec	2	Selective Repeat, Transmission efficiency of ARQ	
2022	3	Protocols, Other adaptation functions	
	4	Sliding window flow control, Timing Recovery in	
	4	Synchronous Services Reliable Stream Service	
	5	Data Link Control, HDLC, PPP ; Statistical Multiplexing	
	1	Local Area Networks and Medium access Control	SS
	1	Protocols:- Multiple access communications	
	2	Local Area network – LAN Structure	
4th week of Dec	3	MAC Sublayer, Logical link control layer	
2022	4	Random Access protocols ALOHA, Slotted ALOHA	
		CSMA, CSMA/CD. Scheduling approaches to medium	
	5	access control	
	1	Description Systems, polling, Taken possing rings	CC
	1	Reservation Systems, poining, Token passing rings	55
	Z	comparison of Random access & Scheduling access control	
1st week of Jan 2023	3	Comparison of Radom access & SHEDULING MEDIUM	
	4	access controls	
	4	Channelization – FDMA, TDMA, CDMA	
	3	LAN Standard –Ethernet and IEF, 802.5	CC
	1	LAN Standard; Token King and IEEE 8025	55
2nd week of Jan	2	LAN standard, FDDI Wireless LAN's	
2023	3	IEEE 802.11 Standards	
	4	LAN Bridges – Transparent Bridges	
	5	Source Routing Bridges	~~~
	1	Mixed – media Bridges.	SS
	2	Packet Switching Networks: - Network services & Internal	
		Network Operation; Packet Network Topology	
3rd week of Jan	3	Datagrams & VIRTUAL circuits; structure of switch/	
2023	4	Kouter, Connectionless packet switching	
	4	Virtual – Circuit packet switching	
	5	Overview of Routing and congestion in packet networks –	
		Kouting algorithms classification	

4th week of Jan 2023	1	Routing tables	SS
	2	shortest path routing algorithms	
	3	Flooding	
	4	Hierarchical routing	
	5	Distance vector routing	
	1	Link state routing	SS
1 at much of Eah	2	congestion control algorithms	
2023	3	Revision of unit-1	
2025	4	Revision of unit-1	
	5	Unit 1-Test	
	1	Revision of unit-2	SS
and weak of Eah	2	Revision of unit-2	
2110 Week of Feb	3	Unit 2- Test	
2025	4	Revision of unit-3	
	5	Revision of unit-3	
	1	Unit 3-Test	SS
2nd meals of Eah	2	Revision of unit-4	
2023	3	Revision of unit-4	
2023	4	Unit 4 - Test	
	5	Revision of unit-5	
	1	Revision of unit-5	SS
4th meals of Eah	2	Unit 5-Test	
4th week of Feb	3	Previous year Question paper Discussion	
2023	4	Previous year Question paper Discussion	
	5	Previous year Question paper Discussion	

Department of Computer science

NAAC criteria-1: CURRICULAR ASPECTS for the academic years 2022-2023

Name of the Department	Computer science	Subject Title	DATA MINING
BCA	V sem	Paper	Elective II
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher Divya.S.R
	1	Overview motivation for data mining	SRD
	2	Data mining- definition and functionalities	SRD
1st week of Nov	3	Data Warehouse: Data, warehouse, data Warehouse, overview,	SRD
2022	4	Understanding a Data Warehouse, Why a Data Warehouse is separated from Operational Databases	SRD
	5	Data Warehouse Features	SRD
	1	Data processing	SRD
	2	From of data preprocessing.	SRD
2nd week of Nov 2022	3	Data Warehouse Applications, Types of Data Warehouse	SRD
	4	Difference b/n Data Warehouse (OLAP) and operational database(OLTP)	SRD
	5	Data warehouse: Data delivery	SRD
	1	Data cleaning: missing values,	SRD
	2	Data cleaning: noisy data, (binning, clustering, regression,)	SRD
	3	delivery method	SRD
3rd Week of Nov 2022	4	Data Warehousing - System Processes	SRD
	5	Process Flow in Data Warehouse	SRD
	1	Data cleaning: computer and human inspection)	SRD
	2	Inconsistent data, data integration and transformation, data reduction	SRD
4th Week of Nov 2022	3	Data Warehousing - Architecture	SRD

			SRD
	4	Business Analysis Framework	
			SRD
	5	Three-Tier Data Warehouse Architecture	
1st week of Dec 2022	1	Unit IV: concept description: definition, data generalization,	SRD
	2	Analytical characterization, analysis of attributes relevance,	SRD
			SRD
	3	Data Warehouse Models,	
	4	virtual warehouse, data mart,	SRD
	5	Enterprises warehouse	SRD

	1	Mining class comparisons, statically measures in large databases	SRD
	2	Measuring central tendency, measuring dispersion of data, graph displays of basic statistical	SRD
2nd week of Dec 2022	3	Data cube, stars, snow flakes,	SRD
	4	Fact constellations, concept hierarchy,	SRD
	5	Process architecture, 3 tier architecture, data mining	SRD
	1	class description mining association, rules in large DB,	SRD
	2	Association rule mining, mining single-dimensional Boolean association rules from transaction rules from transactional DB	SRD
3rd week of Dec 2022	3	Aggregation, historical information	SRD
	4	Query facility, OLAP function and tools	SRD
	5	OLAP servers, ROLAP, MOLAP, HOLAP,	SRD
	1	Apriori algorithms,	SRD
	2	Mining multi-level association rules	SRD
4th week of Dec 2022	3	Data mining interface, security, backup and recovery,	SRD
	4	Tuning data warehouse,	SRD
	5	testing data warehouse.	SRD
	1	Unit V: classification and predictions	SRD
	2	What is classification and prediction	SRD
1st Week of Jan 2023	3	Issues regarding classification and predication.	SRD
	4	Decision tree.	SRD
	5	Bayesian classification	SRD
	1	Transactional database and mining	SRD
2 104 1 (1 2022	2	Multi-dimensional	SRD
2nd Week of Jan 2023	3	Classification by back propagation	SRD
	4	Multilayer feed forward neural network	SRD
	5	Back propagation algorithms	SRD
	1	Associational rules from relational database	SRD
	2	mining single-dimensional,	SRD
sru week of Jan 2023	3	Classification methods K-nearest neighbor classifiers	SRD
	4	Generic algorithms	SRD

	5	Cluster analysis	SRD
	1	transaction rules	SRD
	2	ROLAP, MOLAP,	SRD
4th Week of Jan 2023	3	Data types in cluster analysis	SRD
	4	k-Means Clustering	SRD
	5	Hierarchical Clustering Algorithm	SRD
	1	Data integration and compaction in data mining	SRD
	2	Multilevel association	SRD
1st week of Feb 2023	3	Mean Shift Clustering	SRD
	4	DBSCAN – Density-based Spatial Clustering	SRD
	5	Gaussian Mixed Models (GMM) with Expectation-Maximization Clustering.	SRD
	1	Unit3: test1	SRD
	2	Unit3: test2	SRD
2nd week of Feb 2023	3	Mean Shift Clustering	SRD
	4	Fuzzy C Means Algorithm – FANNY (Fuzzy Analysis Clustering)	SRD
	5	types of back propagation networks. Static back propagation. Recurrent back propagation	SRD
	1	Unit4: test1	SRD
	2	Unit4: test1	SRD
	3	Unit1: Test 1	SRD
3rd week of Feb 2023	4	Unit1: Test2	SRD
	5	Unit2:test1	SRD
	1	Unit4: test3	SRD
	2	Unit4: test4	SRD
4th week of Feb 2023	3	Unit2:test2	SRD
	4	Unit5:test1	SRD
	5	Unit5:test1	SRD

Department of Computer science

NAAC criteria-1: CURRICULAR ASPECTS for the academic years 2022-2023

Name of the Department	Computer science	Subject Title	Theory of Computation
BCA	V sem	Paper	Elective I
Week/Month & Date (Preferably)	Day	Portions Planned for 1 hour	Teacher: Vinutha V
1st week of Nov	1	Unit – I : Introduction to Finite Automata: The central concepts of Automata theory	VV
2022	2	Deterministic finite automata	VV
	1	Applications of FA, types of FA	VV
	2	Deterministic finite automata : Design, pattern recognition problems	VV
2nd week of Nov 2022	3	Deterministic finite automata : problem solving	VV
	4	DFA : problem solving	VV
	5	DFA : divisible by k problems	VV
	1	DFA : modulo k counter problem	VV
	2	Nondeterministic finite automata - examples	VV
3rd Week of Nov 2022	4	Nondeterministic finite automata problems	VV
	5	Finite automata with Epsilon transitions - Examples	VV
	1	Finite automata with Epsilon transitions - problems	VV
	2	Finite automata with Epsilon transitions - problems	VV
	3	Unit - II Regular Expressions:	VV
4th Week of Nov 2022	4	Finite Automata and Regular Expressions	VV
	5	Construction of DFA from regular expression	VV

	1	Construction of epsilon NFA from regular expression	VV
	2	Construction of epsilon NFA from regular expression	VV
			VV
1st week of Dec 2022	3	Construction of regular expression from FA, applications of regular expression	
	4	Pumping lemma for Regular languages	VV
	5	Applications of pumping lemma	VV

2nd week of Dec 2022	1	Decision properties of regular languages	VV
	2	Closure properties of regular languages;	VV
	3	Equivalence and minimization of automata	VV
	4	Equivalence and minimization of automata	VV
	5	minimization of automata - problems	VV
	1	Unit - III Context–free grammars, types	VV
	2	CFG-language from CFG	VV
3rd week of Dec 2022	3	CFG from FA	VV
	4	CFG from languages	VV
	5	Parse trees	VV
	1	Ambiguity in grammars and Languages.	VV
	2	Ambiguity in grammars and Languages.	VV
4th week of Dec 2022	3	Definition of the Pushdown automata	VV
	4	languages of a PDA	VV
	5	Construction of PDA	VV
1st Week of Jan 2023		Internal Assessment	
	1	Equivalence of PDA's and CFG's.	VV
	2	Normal forms for CFGs :chomsky's normal form	VV
2nd Week of Jan 2023	3	Normal forms for CFGs:chomsky's normal form	VV
	4	Normal forms for CFGs: Griebach normal form	VV
	5	The pumping lemma for CFGs	VV
	1	The pumping lemma for CFGs	VV
	2	Closure properties of CFLs. Problems that Computers cannot solve	VV
3rd Week of Jan 2023	3	Closure properties of CFLs. Problems that Computers cannot solve	VV
	4	Unit – V The Turing machine: Types of Turing Machines.	VV
	5	Programming techniques for Turing Machines.	VV
	1	Programming techniques for Turing Machines.	VV
4th Week of Jan 2023	2	Undecidability, A Language that is not recursively enumerable	VV

	3	Undecidability, A Language that is not recursively enumerable	VV
	4	Undecidability, A Language that is not recursively enumerable	VV
	5	An Undecidable problem that is RE	VV
	1	An Undecidable problem that is RE	VV
	2	Transducers : Automata with outputs	VV
1st week of Feb 2023	3	Transducers : Automata with outputs	VV
	4	Mealy Machine	VV
	5	Moore machine	VV
	1	Designing simple counters with transducers	VV
	2	Designing simple counters with transducers	VV
2nd week of Feb 2023	3	Revision	VV
	4	Revision	VV
	5	Revision	VV
	1	Question papers discussion	VV
	2	Question papers discussion	VV
3rd week of Feb 2023	3	Unit 1 test	VV
	4	Unit 2 test	VV
	5	Unit 3 test	VV
	1	Unit 4 test	VV
4 th week of Feb 2023	2	Unit 5 test	VV