

SOPHIA GIRLS' COLLEGE(AUTONOMOUS), AJMER





SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) B.C.A./ I. M.Sc. C.Sc. (SEMESTER I) 2019-20

MULTIMEDIA BASICS

Max. Marks:100 (70Ext; 30 Int)

Min. Marks: 40(28 Ext;12 Int)

Credit: 03

COURSE PLAN

SEM I Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage
JULY	UNIT I Introduction to Multimedia Technology- Applications of Multimedia, advantages and disadvantages of Multimedia, media elements	Different formats of data representation and its requirement	PPT	Identify terminology associated with the concepts, techniques, and processes used throughout the	Knowledge Based Define multimedia List media elements Understanding Based	(%)
	User Interface and its types, importance and its features, MM hardware and software requirements	Requirements of different hardware and applications needed to deal with multimedia data	Match the following, Demonstratio n, PPT	multimedia environment.	Which interface is best suitable to take input from the user and why?	Knowledge60 Understanding-: Higher Order-1
UGUST	Images: rastor and vector images UNIT II Image compression: Lossy and Lossless Compression, advantages and disadvantages of image	Comparison of different image types and compression techniques	PPT and lecture method	Compare different image types and compression	Givo .	

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-	compression, audio synthesis, speech recognition and Speech Synthesis.					
SEPTEMBER	Jpeg image compression, mpeg video compression. Developing Applications using multimedia, methodology and design, Various multimedia laws: Patent law, Trademark Law, Trade secret Law, and Copyright Law.	How to design a Multimedia application , Business and Ethical laws in society	PPT, Quiz	Study laws of multimedia and design environment	Can integration of different media elements can be accomplished in any computer? Justify	
	UNIT III Introduction to Flash: Tools of Flash (Pen, Pencil, Paint Bucket Tool, Eye Dropper, Text, 3D rotation etc),	Creating Animation using vector images	PPT, Practical	Design basic		V=3
	Drawing object in flash (line, curve, oval, Rectangle, Polystar tool), stroke and fill, Layers and its types in	Importance of computers in developing animation and how to select particular tween	PPT, Practical, Live Examples	animations and gif images using flash		
OCTOBER	flash, Key frames, symbols, Object based animation, motion tween, classic tween and shape tween, adding sound.	from various options				

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Head

Department of Computer Science

Sophia Girls' College (Autonomous), Ajmer

2019-20



SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) B.C.A II (SEMESTER III) 2019-20

BCA - 301 Data Structure & Algorithm - II

Max. Marks: 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM III Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
JULY	UNIT I Introduction to stacks, Representation of stacks, Implementation of stacks using Array & Link List, Uses of stacks (evaluating, expression)	Types of data structures Linear data structure Familiarizing the stack and queue examples in our daily life The various operations that can be implemented on data structure	PPT, Practical Implementation, Practice questions, worksheet	Design linear data structure using stack Evaluate expressions using stack	Knowledge Based What is linear data structure? Define push and pop operation in stack Understanding Based What is the time	Knowledge50 Understanding-35 Higher Order-15
AUGUST	Introduction to queues, Implementation of queues (with algorithm), Circular Queues.	Comparison of stack and queue data structure	PPT, Practical Implementation	Design linear data structure using queue	complexity of tree traversal? Comparison of array and link list	

2019-20

1,	UNIT II Trees: Definition & Basic concepts, linked tree representation	Overview of Non linear data structures	PPT, Practical Implementation, MCQ's			
SEPTEMBER-	Introduction to Binary Tree. Traversing Binary Trees (Pre order, Post order and Inorder), Concept of Binary search tree, algorithm of Searching, inserting and deleting in binary search trees.	Role of Traversing in tree data structure	PPT, Quiz	Understand the tree data structure and implement its traversing	Iligher Order Thinking Skills Based Write a program to perform the factorial of given number. Give the algorithm of insertion in queue	
e.	UNIT III Graph: Introduction to graphs, types of graphs (complete, weighted, unweight ed. simple).	Comparison of graph and tree data structure Different types of graph available and its use.			e e	
OCTOBER	Representation of Graph: adjacency Matrix, incidence Matrix, Graph Traversal: Breadth first search, Depth first search. Recursion: Factorial, Fibonacci, Tower of Hanoi.	How graphs can be implemented in different ways and comparison of their complexities. Concept of Fibonacci series and tower of Hanoi	PPT, Practical, Live Examples	Analyze graph representations and applying recursion to problems		
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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) B.C.A III (SEMESTER V) 2019-20

BCA – 505 Advance Database Management System

Max. Marks: 75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM V Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
JULY	UNIT I Query optimization & processing: algorithm for external sorting, select & join operation, project & set operations. Temporal and multimedia databases.	Optimization in day to day life and how it is applied to various operations in DBMS How keeping time attribute is important in databases	PPT, Practice problems	Compare and Contrast between different types of databases. Optimize the operations	What is query? Define interoperation in databases. BLOB and CLOB data types.	¥
	Parallel Databases : I/O Parallelism, Interquery Parallelism, Intraquery Parallelism.	Importance of executing operations in parallel	e e e e e e e e e e e e e e e e e e e	Implement basic	Understanding Based	Knowledge40 Understanding-40 Higher Order-20
AUGUST	UNIT II Distributed Databases: Distributed Data Storage, Distributed Transactions, Commit protocol, Concurrency Control in Distributed Databases	How data can be processed from various sites in distributed databases. Problems that do exist in distributed architecture	PPT, Quiz	operations of database language	Explain the two phase commit protocol of databases. Give a brief	

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SEPTEMBER-	Introduction to PL/SQL and its advantages over SQL, PL/SQL block				Higher Order		
	structure, variables and constants, attributes, character set, data types, control structures, conditional control.	Importance of PL/SQL and data types available in PL/SQL in respect to SQL	PPT, Practical Implementation	Handle the events occurring on database	Thinking Skills Based Compare between parallel and distributed databases.		1 4
OCTOBER	UNIT III Sequential control, Error handling in PL/SQL, creating function & procedure, package functions, package procedures, Oracle transactions Database Triggers: Introduction, Use & type of database Triggers, Triggers Vs. Declarative Integrity Constraints, BEFORE Vs. AFTER Trigger Combinations, Creating a Trigger, Dropping a Trigger.	Different ways of handling error in PL/SQL. Importance and various combinations of triggers in databases.	PPT, Practical Implementation	Handle the events occurring on database and explicit error handling	Write a PL/SQI code for trigger creation		8.00
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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) V.C.A III (SEMESTER V) 2019-20 VCA – 502 Website Development

Max. Marks :75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

COURSE PLAN

SEM V Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
·	UNITI	i	11,000		Knowledge Based	
	Introduction of HTML:			N.		
	introduction, markup language,	. N	5. 947		What is static	
	editing common tags, headers, text		The state of the state of	A STATE OF THE STA	webpage?	
14,	styles, working with Links: creating		and the control of	4		
	a hyperlink, selecting hyperlink		Y		Give the use of align	
	color, linking different sections of	7.	1	1.	attribute of tags.	
	the webpage, formatting text,					
	horizontal rules and more line	Basic Formatting		Get familiar with basics	What is hyperlink?	
*****	breaks, unordered lists, nested and	of WebPages	DDT D	of the Internet		
JULY	ordered lists.	Properties of	PPT, Programs	Contract between static		-
	Working with images: inserting an	Images and Table		Contrast between static	77	Knowledge—40
	image, adding border to image, aligning an image, using image as	1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		and dynamic WebPages	<u>Understanding</u>	Understanding-40
	hyperlink.				Based What is nested list?	Higher Order-20
	Working with tables: creating table,		44	1 *	Explain by an	
	specifying caption to a table, setting				example.	6
	width of table and table columns,		36-11		Cxampic.	
	setting cell spacing and padding					
	,spanning rows and columns, image				Write an HTML code	
	maps.	y × 1	h 4	901	to divide the webpage	1
ALICHET	Unit II	Understanding	PPT, Programs	Acquire knowledge and	into four vertical	
AUGUST	· Basic HTML forms, working with	different sections		skills for creation of web	sections.	

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	frames: creating vertical and horizontal frames, applying hyperlink targets to a frame. Cascading style sheets: inline, internal and external style sheets. Java script – introduction to scripting, JavaScript Keywords, variables, expression, data type, var.	of Webpage and how CSS can save time and effort in website development		site considering HTML and client side programming using JavaScript	Higher Order Thinking Skills Based Write a code to create a function to take input from user and find its factorial.	
SEPTEMBER-	Unit III Operators: Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operators, Increment/ Decrement Operator, Conditional operator, Comma operator, % (Modulus), ++ (Increment), (Decrement), - (Unary Negation). Control Structure: if-else, switch, Break, loop: while, do-while, for, for-in.	How JavaScript can be incorporated in HTML document. How to take and process input form then user	PPT, Practical Implementation	Design website using both the scripting languages	Write a code to show use of different math methods.	
OCTOBER Sa Pro	Function: create, Core JavaScript (Properties and Methods of String, Math and Date Object) Java script arrays: introduction, array-declaring and allocating arrays.	Use of functions and various objects variable in JavaScript Comparison of code without array and with arrays.	PPT, Practical Implementation	Implement the functions of Date, Math and String objects	Cal	Y 1
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M.SC Computer Science (FINAL) 2019-20 SEMESTER III (M.Sc. C. Sc. Final)

MSC - 304 Advance Database Management System

MAX MARKS: 100(70EXT; 30 INT)

MIN. MARKS: 40(28 EXT;12 INT)

Credit: 03

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
	Object Oriented concepts: complex objects, object definition language, object query language	Concept of Objects and types of databases with reference to their relevance.		Understand OODBMS concepts	Knowledge Based Define time interval What is	
SEM III JULY	Distributed Databases: Distributed Data Storage, Distributed Transactions, Commit protocol, Concurrency Control in Distributed Databases.	Problems that do exist in distributed architecture	PPT, Lecture, Diagrams	Compare between different database types	optimization? Understanding Based	Knowledge-25 Understanding-45
	Transaction management, and serializability, Recovery technique: log based recovery, Temporal database concept and multimedia database.	How keeping time attribute is important in databases.	Sign of the state	Understand the utility of different	What is the need of external sorting? Explain sort merge algorithm	Higher Order-30
		* E	5413 542	databases and complexity	Explain how data constraints are	
AUGUST	Query optimization and processing, algorithm for external sorting, select and join, Project and set operations	Optimization in day to day life and how it is applied to	Hands on Exercise		necessary in databases.	
		various operations in DBMS			<u>Higher Order</u> <u>Thinking Skills</u>	

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,	Check Constraints, Unique & Not Null. SQL: Searching, Matching & Basic Oracle Functions: String, numeric, Aggregate & Conversion Functions, Queries based on group by clause, Sub queries & joins.	Different types of queries on databases	Hands on Exercise and Practical Implementation	Execute various queries on database using SQL	database	×
SEPTEMBER		Importance of PL/SQL and data types available in PL/SQL in respect to SQL	Hands on Exercise and Practical Implementation	Handle error and various events on database		ŧ
OCTOBER	execution of procedures, creating function and packages.		Practical Implementation	Compose packages in PL/SQL		

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	type of databas Declarative Int BEFORE Vs.	gers: Introduction, Use & ce Triggers, Triggers Vs. egrity Constraints, AFTER Trigger Creating a Trigger, igger.	Importance and various combinations of triggers in databases.	Practical Implementation	Able to handle database events occurring on system	
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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) B.C.A II (SEMESTER IV) 2019-20 BCA – 401 Discrete Mathematics

Max. Marks :75 (50Ext; 25 lnt)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

SEM IV Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage
JANURARY	Unit I Sets: Elements of a set, methods of describing a set, types of sets, Operations on sets— union, intersection and difference of sets, Associative Laws, Distributive laws, DeMorgan's laws, Venn Diagrams, ordered pairs, Cartesian product of two sets.	Membership of set and how to examine their relationships	PPT, Practical Implementation, Hands- on Exercise	Apply set operations to solve applied problems	Knowledge Based What is set? Define reflexive relation. Understanding	Knowledge 50 Understanding-
FEBURARY	Unit II Relation: Basic definition of relation and types of relations (reflexive, irreflexive, symmetric, A-symmetric, transitive, anti symmetric, equivalence), Binary relations, domain, range, inverse and composite.	Need of Relation and how to write the elements in relation from given equation	PPT, Practical Implementation, Hands- on Exercise	Able to recognize the membership of relationship set	Based Prove DeMorgans law of set theory. Give the utility of quantifiers.	Higher Order- 15
20	Algebra of logic: Propositions and Logic operations, truth tables, arguments and validity of arguments, propositions generated	Understand the need to represent knowledge in systems and how to	PPT, Practical Implementation, Hands- on Exercise	Examine the validity of argument by using	Higher Order	

1	by a set, equivalence and implication laws of logic	store it		Propositional Calculus	Thinking Skills Based
	Unit III Logical Connectives – Disjunction, Conjunction, Negation, Conditional Connectives, Quantifiers.				Is Adjacency matrix of all graphs symmetric? Justify by example In a class, 60% students like math whereas 50% like
MARCH	Graph Theory: Definition, Basic terminology, Types of graph (Simple, Multi, Pseudo, Finite & Infinite, Null, Complete, Cyclic & Acyclic, Weighted & Unweighted graph)	Understanding graph components and importance	PPT, Practical Implementation, Hands- on Exercise	Understand different graphs and matrix operations.	science. What per cent of students like both math and science?
	Matrix operations: addition, subtraction, multiplication Matrix representation of graph: Adjacency matrix, Incidence Matrix	Representing data in two dimensions		operations.	

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Head

Department of Computer Science Sophia Girls' College (Autonomous), Ajmer



SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS) B.C.A III (SEMESTER VI) 2019-20 BCA - 601 Software Engineering

Max. Marks :75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

SEM IV Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
JANURARY	Unit – I Software Engineering: Introduction, definition, Software Characteristics, Applications Software Process: Introduction, FrameworkProcess, Project and people. SDLC, Process Models: Waterfall, Spiral, Prototyping & Incremental Model.	Engineering tools, need to follow protocols while designing software How to choose design method	PPT	Understand basic concepts of software engineering. Compare different software engineering process models	Knowledge Based Define Error in testing. What is software audit? Understanding Based	Knowledge40 Understanding- 40 Higher Order-20
FEBURARY	Unit – II Software Measurement: Size metric Design: Introduction , Definition, Objective ,Modularity(Cohesion & Coupling)	Features of metrics, how to design reusable components and their inter relationships	PPT, Practical Implementation	Create architectural design for a given project	Discuss the differences between system and unit testing.	



	Coding: Introduction, Code Review (Code Walkthrough, Inspection, Clean room Approach)				Higher Order Thinking Skills Based	
MARCH	Unit – III Testing: Introduction, Objective, Characteristics, Principles, Testability Software Testing Strategies: Unit Testing, Integration Testing, Validation Testing (Alpha and Beta Testing), Verification, System Testing (Recovery, Security, Stress, Performance), Black Box Testing and White Box Testing: Introduction and Comparison.	Effective testing leads to easily acceptance for the software	PPT, QUIZ	Apply different testing techniques	Contrast between functional and non functional requirements of software. Give Importance of software testing and compare verification and validation.	*

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Department of Computer Science
Sophia Girls' College

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V.C.A III (SEMESTER VI) 2019-20 VCA – 602 Multimedia Technology

Max. Marks :75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

Credit: 03

SEM VI Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
DECEMBER	Unit – I Introduction to Multimedia, Advantages and Disadvantages of Multimedia	Effective Communication, its source and usage	PPT	Identify terminology associated with the concepts, techniques, and processes used throughout the multimedia environment	Knowledge Based Define multimedia Computer Write short note on video	Knowledge—40 Understanding-40
JANURARY	Media elements, Application areas of Multimedia, System components, user interface and its types, importance and Features of user interface, MM hardware & software requirements.	Integrating various media elements for a project.	PPT , Quiz	Understand the multimedia system	Explain how user interface is important for any multimedia interface.	Higher Order-20

+	Unit – II					
	Images: Raster and Vector image				Give differences between bitmap and	
	compression: Lossy and Lossless				vector images.	
8	Compression, advantages and		1			
	disadvantages of compression, jpeg	Utility of		Study laws of	Higher Onder Thinking	
	image compression	Compression and various standards,	PPT	multimedia and importance of compression technique	Higher Order Thinking Skills Based	
	Various multimedia laws: Patent law,	privacy aspects of				
	Trademark Law, Trade secret Law,	project			Write down the steps to create butterfly and	
FEBURARY	Copyright Law.				apply guide layer.	
FEBURARY	Introduction to Flash: Uses of					
	flash, hardware requirements of				Can integration of	
	flash, Tool Box and its components	Utility of flash	PPT, Practical Implementation	Understand key	different media elements	
	(Line tool, Pen, Pencil, Paint Bucket	file, how to render simple components on		CEL-1	can be accomplished in	
	Tool, Ink bottle tool, Eye Dropper),				any computer? Justify	
	Color effects (solid, linear gradients	stage.				
	& Radial gradients) Text tool.					
	Unit – III					
	Flash: 3D rotation, Eraser tool,					
	concept of frames, significance of			D : 1 :		
	frames, key frame, Drawing object in	Utility of layers	PPT, Practical	Design basic animation and gif		
MARCH	flash (line, curve, oval, Rectangle,	and comparative analysis of tweens	Implementation	images for		
	Polystar tool), Layers and its types	analysis of tweens		publishing		
	in flash. Insert and rename layers,					
	Envelope, Object based animation					

	(frame by frame a tween, classic twe tween, animating	en and shape	1					1		
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M.SC Computer Science (FINAL) 2019-20 SEMESTER IV (M.Sc. C. Sc. Final) MCS – 401 ARTIFICIAL INTELLIGENCE

MAX MARKS: 100(70EXT; 30 INT)

MIN. MARKS: 40(28 EXT;12 INT)

Credit: 03

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage
SEM IV	Unit I Definition of AI, Applications of AI Knowledge-based systems, representation of knowledge, organization and acquisition of knowledge.	Human Intelligence vs artificial systems, various inputs and outputs Role of knowledge in building artificial systems	PPT, Lecture method, Live Examples	Understand basic principles and application of AI	Knowledge Based Define Artificial Intelligence What is logic? Understanding Based	Knowledge—25 Understanding-45 Higher Order-30
FEBURARY	Syntax, semantics of propositional logic, syntax and semantics of FOPL, conversion to clausal form.	Logical reasoning and its storage	PPT, Hands on Exercise	Represent knowledge in various ways	What is inferencing in artificial systems? Explain by an example.	
al de la companya de	Unit II Inference rule, resolution principles Non-deductive inference methods, Representation using rules,	Inference methods and the management of knowledge based systems, handling	PPT, Hands on Exercise	How to apply inference in artificial systems	Give the application areas of expert systems.	

-	truth maintenance system, and fuzzy logic.	non discrete values				
	Bayesian probabilistic inference, associative networks, frame networks,	Different forms of knowledge representation	РРТ		Higher Order Thinking Skills Based Briefly give	
MARCH	Search problems: uniformed or blind search (Recursive DFS, Iterative Broadening, Bi-Directional searching), informed or Heuristics Search(Greedy or Best First search).	Importance of search procedure and how to select the best one of the domain	PPT, Hands on Exercise	Solve various problems by applying a suitable search method	comparison between informed and uninformed search. Explain forward and backward chaining in inferencing.	
ř	Concept of learning: Inductive and deductive, Knowledge acquisition, rote learning, Components of Learning Model, Performance Measures	Concept of Automated systems and how systems can learn	PPT	Understand key		* .
	Types of Learning (Supervised, Unsupervised, Active & Reinforcement).	Anatomy of learning in artificial systems	PPT	concept of learning		. *
APRIL	Concept of expert system, need for an expert system, Characteristics & features of an expert system, Components	Rule Based systems, its creation and usage	PPT	Plan an expert system for specific domain		
Sr Pearl PRINCIPAL	of an expert system, Stages in the development of an expert system, Application areas of Expert System.				Department of	Sah Bad Omputer Scie
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M.SC Computer Science (FINAL) 2019-20

SEMESTER IV (M.Sc. C. Sc. Final)

MCS - 403 WEB TECHNOLOGY

MAX MARKS: 100(70EXT; 30 INT)

MIN. MARKS: 40(28 EXT;12 INT))

Credit: 03

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)		
	Unit – I HTML: Introduction, HTML Documents, Basic structure of an HTML document, Creating an HTML document, Information type elements, Character Formatting Elements, Block Formatting Elements.	Basic Formatting of WebPages Properties of Images and Table	PPT, Practical	Get familiar with basics of the Internet Contrast between static and dynamic WebPages	Knowledge Based Define static website.	Knowledge—2: Understanding-		
SEM IV JANURARY	Working with Lists, Hyperlinks, Images. HTML Tables: Introduction to HTML tables and their Basic	Understanding different sections of Webpage and how CSS can save time	Implementation and hands on exercise		Define cell padding.	45 Higher Order-30		
	Structure Part, The table tags, Attributes of Table Tag, attributes of <tr>Tag, Attributes of <td>Tag, Attributes of <th> Tag.</th></td><td>and effort in website development</td><td>ught.</td><td></td><td>Understanding Based Write an HTML code to show the</td><td></td></tr>	Tag, Attributes of <th> Tag.</th>	Tag.	and effort in website development	ught.		Understanding Based Write an HTML code to show the	
Tag, Attributes of <th> Tag.</th>	Tag.	and effort in website development	ught.		Understanding Based Write an HTML code to show the			



FEBU	JRARY	Unit – II Forms: Introduction, The FORM Elements, Form Controls, Named Input fields, The <input/> tag, Hidden, Text box, Text Area, Password, Button, Submit, Reset, Radio, Checkbox, Select, pull down. Java Script: Introduction, Keywords, variables, Data type Numbers, Booleans, Strings, Objects, Null, Undefined. Operators: Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operators, Increment/ Decrement Operator, Bitwise Operator, Conditional operator, Comma operator, delete, new, this, Expression, Comment, Input-output.	Comparison of HTML and java Script, type caste languages, How JavaScript can be incorporated in HTML document, How to take and process input from then user	Practical Implementation and hands on exercise	Acquire knowledge and skills for creation of web site considering HTML and client side programming using JavaScript	Higher Order Thinking Skills Based Write a Javascript code to handle onClick event.	
MA	ARCH	Unit – III Control Structure: if-else, switch, Loop: while, do-while, for, for-in, break, continue, return, import, export.	Compare for and for-in loop,use of import and export	Practical Implementation and hands on exercise	Design website using both the scripting languages		

	Objects and its types: Array: create, access, methods (length, reverse, sort)Boolean: toString, valueof()Date: getYear(), setYear(), getMonth(), setMonth(), getDate(), setDate(), getHours(), getHours(), setHours(), getHours(), setHours(), getSeconds(), setSeconds()	Use of functions and various objects variable in JavaScript Comparison of code without array and with arrays.		Implement the	
APRIL	Math: abs(). min(). max(), pow(), round(), sqrt()String: Bold, Italic, Length, indexOf, lastIndexOf(), search(), slice(), substring(), replace(). toUpperCase(), toLowerCase(), concat(), String.trim(), charAt, charCodeAt,Function: Built-in-Function: (eval(),infinite(), isNaN(), parseFloat(), parseInt()), Userdefined-Function: (create, calling, return)	Use of various methods variable in JavaScript	Practical Implementation and hands on exercise, Project work	functions of Date, Math and String objects	
Sr Pearl	Events and Event Handlers : General Information about Events, Defining Event Handlers, events: onClick, onDblClick, onMouseOver, onMove	Event occurrence and Role of event handlers	arl	Be able to trace and handle events	Crawfan