

BBA (CA) -- Semester: III

Teaching Plan 2020-2021

Name of Faculty:Prof. Vishwanath JhaSubject: Digital Marketing(SUBJECT CODE-301)

Sr.No.	Month	Week	Topic
1	JULY	2	Chapter 1: E-Commerce 1.1 Introduction 1.2 Understanding Internet Marketing 1.3 Search Engine Optimization 1.4 Search Engine Marketing 1.5 Email Marketing 1.6 Digital Display Marketing Chapter 2: Introduction to New Age Media (Digital) Marketing 2.1 What is Digital Marketing 2.2 Digital vs. Real Marketing 2.3 Digital Marketing Channels 2.4 Types of Digital Marketing(Overview)-Internet Marketing, Social Media Marketing, Mobile Marketing
		4	Chapter 3: Creating Initial Digital Marketing Plan Creating Initial Digital Marketing Plan 3.1 Content management 3.2 SWOT analysis: Strengths, Weaknesses, Opportunities, and Threats
	2 AUG	1	 3.3 Target group analysis EXERCISE: Define a target group Chapter 4: Marketing using Web Sites 4.1 Web design 4.2 Optimization of Web sites 4.3 MS Expression Web EXERCISE: Creating web sites, MS Expression
		2	Chapter 5: Search Engine Optimization 5.1 SEO Optimization 5.2 Writing the SEO content EXERCISE: Writing the SEO content
2		3	Chapter 6: Customer Relationship Management 6.1 Introduction to CRM 6.2 CRM platform 6.3 CRM models EXERCISE: CRM strategy
		4	Chapter 7: Social Media Marketing 7.1 Understanding Social Media Marketing 7.2 Social Networking (Facebook, Linkedin, Twitter, etc.) Social Media (Blogging, Video Sharing - Youtube, Photosharing – Instagram, Podcasts) 7.3 Web analytics - levels
		1	7.4 Modes of Social Media Marketing 7.4.1 Creating a Facebook page Visual identity of a Facebook page, Types of publications, Facebook Ads, Creating Facebook Ads, Ads Visibility 7.4.2 Business opportunities and Instagram options, Optimization of Instagram profiles, Integrating Instagram with a Web Site and other
3	SEP	2	7.4.3 Business tools on LinkedIn Creating campaigns on LinkedIn , Analyzing visitation on LinkedIn

			7.4.4 Creating business accounts on YouTubeYouT, Advertising, YouTube Analytics	lube
		3	7.4.5 E-mail marketing E-mail marketing plan, E-r	nail
			marketing campaign analysis, Keeping up with cor	iversions
			7.5 Digital Marketing tools: Google Ads, FaceBool	ζ
			Ads, Google Analytic, Zapier, Google Keyword Pla	nner
		1	EXERCISE: Social Media Marketing plan.	
			EXERCISE: Making a Facebook page and Google	Ads
4	ОСТ		Chapter 8: Digital Marketing Budgeting	
			8.1 Resource planning	
		2	8.2 Cost estimating	
		2	8.3 Cost budgeting	8.4 Cost
		3	control	
		4	Online Viva conducted	
5	NOV	2	DIWALI VACATION	
6	NOV-DEC		University Examination Started	



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Teaching Plan 2020-2021

Name of Faculty: Prof. Shilpa Thakur
Subject: Data Structure (SUBJECT CODE-302)

Sr.No.	Month	Week	Topic
		2	Chapter 1:Basic Concept and Introduction to Data Structure 1.1 Pointers and dynamic memory allocation 1.2 Algorithm-Definition and characteristics 1.3 Algorithm Analysis -Space Complexity -Time Complexity - Asymptotic Notation Introduction to Data structure 1.4 Types of Data structure
1	JULY	3	 1.5 Abstract Data Types (ADT) Introduction to Arrays and Structure 1.6 Types of array and Representation of array 1.7 Polynomial - Polynomial Representation - Evaluation of Polynomial Addition of Polynomial 1.8 Self Referential Structure & LAB WORK
		4	Chapter 2: Linear data structures 2.1 Introduction to Arrays - array representation 2.2 Sorting algorithms with efficiency - Bubble sort, Insertion sort, Merge sort, Quick Sort, Selection Sort 2.3 Searching techniques –Linear Search, Binary search WORK LAB
		1	Chapter 3: Linked List 3.1 Introduction to Linked List 3.2 Implementation of Linked List – Static & Dynamic representation LAB WORK
		2	3.3 Types of Linked ListSingly Linked list(All type of operation)Doubly Linked list (Create, Display)Circularly Singly Linked list (Create, Display)
2	2 AUG	3	Chapter 4: Stacks 4.1 Introduction 4.2 Representation- Static & Dynamic 4.3 Primitive Operations on stack
		4	4.4 Application of Stack 4.5 Conversion of Infix, prefix, postfix, Evaluation of postfix and prefix 4.6 Simulating recursion using stack LAB WORK
		1	Chapter 5: Queues 5.1 Introduction 5.2 Representation - Static & Dynamic 5.3 Primitive Operations on Queue
3	SEP	2	5.4 Circular queue, priority queue 5.5 Concept of doubly ended queue LAB WORK

		3	Chapter 6: Trees 6.1 Concept & Terminologies 6.2 Binary tree, binary search tree
		1	 6.5 Tree Traversals (preorder, inorder, postorder) 6.6 Application - Heap sort 6.7 Height balanced tree- AVL trees- Rotations, AVL tree examples. LAB WORK
4	ост		Chapter 7: Graph 7.1 Concept & terminologies 7.2 Graph Representation – Adjacency matrix, adjacency list, inverse Adjacency list, adjacency multilist, orthogonal list
		2	
			7.3 Degree of Graph
		3	7.4 Traversals – BFS and DFS 7.5 Applications – AOV network – topological sort, AOE network – critical Path & LAB WORK
		4	Online Viva conducted
5	NOV	2	DIWALI VACATION
6	NOV-DEC		University Examination Started



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Teaching Plan 2020-2021

Name of Faculty: Prof. Amina Qadri Subject: Software Engineering (SUBJECT CODE-303)

Sr.No.	Month	Week	Торіс	
5712.00	Name	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Chapter 1: Introduction to System Concepts 1.1 Definition 1.2 Basic Components 1.3 Elements of the System	
		2	1.4 Types of System1.5 System Characteristics & LAB WORK	
1	JULY	3	Chapter 2: Introduction to Software Engineering 2.1 Definition of Software 2.2 Characteristics of Software 2.3 Definition of Software Engineering	
		4	 2.4 Need for Software Engineering 2.5 Mc Call's Quality factors 2.6 The Software Process 2.7 Software Product and Process 2.8 V& V Model & LAB WORK 	
		1	Chapter 3 : Software Development Life Cycle 3.1 Introduction 3.2 Activities of SDLC 3.3 A Generic Process Model 3.4 SDLC	
2	AUG	2	3.5 Waterfall Model3.6 Incremental Process Models3.7 Prototyping Model3.8 Spiral ModelLAB WORK	
		3	Chapter 4: Requirement Engineering 4.1 Introduction 4.2 Requirement Elicitation 4.3Requirement Elaboration	
		4	4.4 Requirement Gathering4.5 Feasibility studyFinding Techniques4.7 SRS FormatLAB WORK	4.6 Fact
		1	Chapter 5: Analysis And Design Tools 5.1 Decision Tree and Decision Table 5.2 Data Flow Diagrams (DFD) (Up to 2nd level) 5.3 Data Dictionary 5.4 Elements of DD	
3	SEP	2	5.5 Advantages and Disadvantages of DD5.6 Input and Output Design5.7 Structured Design ConceptsLAB WORK	

6	NOV-DEC		University Examination Started	
5	NOV	2	DIWALI VACATION	
		4	Online Viva conducted	
		3	Maintenance definition and types 7.2 Software reengineering 7.3 Reverse Engineering 7.4 Restructuring and forward Engineering. WORK	LAB
4	ОСТ	2	LAB WORK Chapter 7: Software Maintenance and Software F Engineering	Re- 7.1
			6.3 Unit Testing6.4 Integration Testing6.5 System Testing	
		1	Chapter 6 : Software Testing 6.1 Definition 6.2 Software testing Process	
		3	5.8 Structure Chart5.9 Coupling and Cohesion5.10 Compulsory Case Studies on above topicsWORK	LAB



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Teaching Plan 2020-2021

Name of Faculty:Prof. Sunita kadnikarSubject: Angular JS(SUBJECT CODE-304)

Sr.No.	Month	Week	Topic
			Chapter 1: AngularJS Core Concepts:
		_	1.1 What is AngularJS?1.2 Difference between Javasript and Angular JS
		2	1.3 Advantages of Angular
1	JULY	3	1.4 AngularJS MVC Architecture
			1.5 Introduction to SPA
		•	1.6 Setting up the environment1.7 First App using MVC architecture
		4	LAB WORK
			Chapter 2 : AngularJS Directives and Expressions:
			2.1 Understanding ng attributes
		1	ng-app, ng-init, ng-model, ng-controller, ng-bind, ng-repeat, ng-show, ng-readonly, ng-disabled, ng-if, ng-click LAB
			WORK
			2.2 Expression and Data Binding
2	AUG	2	2.3 Working with directives LAB
			WORK Chanton 2: Angular IS Madridge Controller View and Scane.
		3	Chapter 3: AngularJS Modules, Controller, View and Scope: 3.1 Angular Modules
		· ·	3.2 Angular Controller
			3.3 Angular View
		4	3.4 Scope hierarchy LAB WORK
			Chapter 4: Filter, Forms and Ajax Filters 4.1
		1	Built-in filters - upper case and lower case filters, date ,currency
			and number formatting ,orderBy, filter ,custom filter,
3	SEP		4.2 Angular JS FormsWorking with Angular JS forms, model binding, form controller
		2	,Using CSS classes, form events ,
		_	custom model update triggers ,custom validation,
		3	4.3 Ajax implementation using \$http LAB WORK
		1	
			Chapter 5: Dependency Injection, Services 5.1 What is dependency injection?
4	ОСТ	2	5.2 Understanding services
			5.3 Using built-in service
		3	5.4 Creating custom service,
		4	5.5 Injecting dependency in service LAB WORK Online Viva conducted
5	NOV	4 2	DIWALI VACATION
6	NOV-DEC	2	University Examination Started
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BBA (CA) -- Semester: III

Teaching Plan 2020-2021

Name of Faculty: Prof. Shilpa Thakur Subject: PHP (SUBJECT CODE-304)

Sr.No.	Month	Week	Торіс	
		2	Chapter 1: PHP Basics 1.1 Setting up a development environment 1.2 Variables, numbers and strings	
1	JULY	3	1.3 Calculations with PHP1.4 Using Arrays	
		4	LAB WORK	
		1	Chapter 2 : Control Structures and Loops 2.1 Conditional Statements	
		2	2.2 Using Loops for Repetitive tasks2.3 Combing Loops and Arrays	
2	AUG	3	LAB WORK	
		4	Chapter 3: Functions, Objects and Errors 3.1 PHP's Built-in functions 3.2 Creating Custom functions 3.3 Passing Values by Reference 3.4 Understanding Objects	
		1	LAB WORK	
3	SEP	2	Chapter 4: Working with Forms 4.1 Building a Form 4.2 Processing a Form's Data 4.3 Differences between POST and GET 4.4 Preserving User Input	
		3	LAB WORK	
		1	Chapter 5: More with Forms 5.1 Dealing with checkboxes and radiobuttons 5.2 Retrieving values from lists 5.3 Validating and restricting data 5.4 Sending Email LAB WORK	
4	ост		Chapter 6: Storing and Protecting Data 6.1 Setting and Reading Cookies 6.2 Protecting Online Files	
		2	6.3 Understanding Session Variables Chapter 7: MySOL Detabase Overview	7 1
		3	Chapter 7: MySQL Database Overview phpMyAdmin Overview 7.2 Using a MySQL Database 7.3 Reading and Writing Data	7.1 LAB
		4	Online Viva conducted	
5 6	NOV DEC	2	DIWALI VACATION	
6	NOV-DEC		University Examination Started	



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Teaching Plan 2020-2021

Name of Faculty:Prof. Shilpa ThakurSubject: Block Chain(SUBJECT CODE-305)

Sr.No.	Month	Week	Topic
1	JULY	2 3	Chapter 1: Introduction To Blockchain Digital Trust 1.2 Asset 1.3 Transactions 1.4 Distributed Ledger Technology 1.5 Types of network 1.6 Components of blockchain or DLT Ledger 1.7.1. Blocks 1.7.2. Blockchain LAB WORK 1.8 PKI and Cryptography 1.8.1. Private keys 1.8.2. Public keys 1.8.3. Hashing 1.8.4. Digital Signature
		4	1.9. Consensus 1.9.1. Byzantine Fault 1.9.2. Proof of Work 1.9.3. Poof of Stake 1.10. Security 1.10.1.DDos 1.11 Cryptocurrency 1.12.Digital Token LAB WORK
		1	Chapter 2: How Blockchain Works 2.1 How Blockchain Works 2.2. Structure of Blockchain 2.3.Block 2.4. Hash 2.5. Blockchain 2.6. Distributed 2.7. Lifecycle of Blockchain
		2	2.8. Smart Contract 2.9. Consensus Algorithm 2.10 Proof of Work 2.11 Proof of Stake 2.12 Practical Byzantine 2.13 Fault Tolerance 2.14 Actors of Blockchain LAB WORK
2 AUG	AUG	3	 2.15 Blockchain developer 2.16 Blockchain operator 2.17 Blockchain regulator 2.18 Blockchain user 2.19 Membership service provider 2.20 Building A Small Blockchain Application LAB WORK
		4	Chapter 3: Introduction to Bitcoin 3.1 Currency 3.2 Double Spending 3.3 Cryptocurrency 3.4 P2P Payment Gateway 3.5 Wallet 3.6 Mining
		1	Chapter 4: Ethereum 4.1.Ethereum network 4.2. EVM 4.3.Transaction fee 4.4.Mist 4.5.Ether, gas
3	SEP	2	4.6.Solidity - Smart contracts 4.7.Truffle 4.8.Web3 4.9.Design and issue Cryptocurrency 4.10. Mining 4.11. DApps 4.12. DAO
		3	LAB WORK

		1	Chapter 5: Introduction To Hyperledger Fabric V1.1 5.1. Introduction to Hyperledger
4	ОСТ		5.5 Hyperledger Architecture
4	oci		5.6 Membership 5.7 Blockchain
		2	5.8 Transaction 5.9 Chaincode
		3	5.10 Hyperledger Fabric 5.11 Features of Hyperledger
		4	Online Viva conducted
5	NOV	2	DIWALI VACATION
6	NOV-DEC		University Examination Started



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Teaching Plan 2020-2021

Name of Faculty:Prof. Sunita kadnikarubject: Big data(SUBJECT CODE-305)

Sr.No.	Month	Week	Topic	
1	JULY	2	Chapter 1: INTRODUCTION TO BIG DATA 1.1 Introduction to Big Data 1.2 Types of Digital Data 1.3 Big Data Analytics 1.4 Application of Big data	
		4	LAB WORK	
		1	Chapter 2: INTRODUCTION TO DATA SCIENCE 2.1 Basics of Data Analytics	
2	AUG	2	 2.2 Types of Analytics – 2.2.1 Descriptive, 2.2.2 Predictive, 2.2.3 Prescriptive 2.2.4 Statistical Inference 	
	AUG	3	2.3 Populations and samples2.3.1 Statistical modelling,2.3.2 Probability2.3.3 Distribution2.3.4 Correlation2.3.5 Regression	
		4	LAB WORK	
		1	Chapter 3: INTRODUCTION TO MACHINE LEARNING 3.1 Basics of Machine Leaning 3 Supervised Machine Learning 3.2.1 K- Nearest-Neighbours, 3.2.2 Naïve Bayes 3.2.3 Decision tree 3.2.4 Support Vector Machines	3.2
3	SEP	2	3.3.1 Cluster analysis 3.3.2 K means 3.3.3 EM Algorithm 3.3.4 Association Rule Mining 3.3.5 Apriori algorithms	
		3	3.4 Regression Analysis 3.4.1 Linear Regression 3.4.2 Nonlinear Regression L WORK	ΔB

		1	Chapter 4: DATA ANALYTICS WITH R/ WEKA MACHINE LEARNING
4 OCT	ост		4.1 Introduction4.2 Data Manipulation
		4.3 Data Visualization	
		2	4.4 Data Analysis
		3	LAB WORK
		4	Online Viva conducted
5	NOV	2	DIWALI VACATION
6	NOV-DEC		University Examination Started