

Teaching Plan

Name of Teacher: - prof. Nishant Hanumant Pawar.

Year: - 2022-23

Term: -I

Sub: - Digital Marketing Paper: - CA-301 Class: - SYBBA(CA) Division:- No

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.OF Working Days	No.OF period available	Topic to be taught	No.OF period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	UNIT I E-Commerce	4 Hrs	Introduction, Understanding Internet Marketing, Search Engine Optimization, Search Engine Marketing, Digital Email Marketing, Digital Display Marketing	-	Completed
2.	Aug	2 nd	6	4 Hrs	UNIT II Introduction to New Age Media (Digital) Marketing	4 Hrs	What is Digital Marketing, Digital vs. Real Marketing, Digital Marketing Channels, Types of Digital Marketing(Overview)- Internet Marketing, Social Media Marketing, Mobile Marketing	-	Completed
3.	Aug	3 rd	6	4 Hrs	UNIT III Creating Initial Digital Marketing Plan	4 Hrs	Content management, SWOT analysis: Strengths, Weaknesses, Opportunities, and Threats, Target group analysis, Target group Define a target group	-	completed
4	Aug	4 th	6	4 Hrs	UNIT IV Market ing using Web Sites	4 Hrs	Web design, Optimization of Web sites, MS Expression Web EXERCISE: Creating web sites, MS Expression	-	Completed
5	Sep	1 st	6	4 Hrs	UNIT V Search	4 Hrs	SEO Optimization, Writing the SEO content EXERCISE: Writing the	-	Completed

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11.	Nov	1 st	6	4 Hrs	UNIT VII Social Media Marketing	UNIT VIII Digital Marketing	4 Hrs	Resource planning, Cost estimating, Cost control. budgeting, Cost control.	-	Completed
12.	Nov	2 nd	6	4 Hrs						Completed

Digital Marketing tools: Google Ads, Facebook Ads, Google Analytic, Zapier, Google Keyword Planner EXERCISE: Social Media Marketing plan. EXERCISE: Making a Facebook page and Google Ads.

Teaching Plan

Name of Teacher: - prof. Nishant Hanumant Pawar.

Year: - 2022-23

Term: - I

Sub: - Data Structure Paper: - CA-302 Class: - SYBBA(CA) Division: -

No

Prat-I Teaching Plan						Part-II Execution Plan					
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark		
1.	Aug	1 st	6	4 Hrs	UNIT I Basic Concept and Introduction to Data Structure	4 Hrs	Pointers and dynamic memory allocation, Algorithm-Definition and characteristics, Algorithm Analysis -Space Complexity -Time Complexity - Asymptotic Notation Introduction to Data structure, Types of Data structure.	-	Completed		
2.	Aug	2 nd	6	4 Hrs	UNIT I PHP Basics	4 Hrs	Abstract Data Types (ADT) Introduction to Arrays and Structure 1.6 Types of array and Representation of array, Polynomial Representation - Evaluation of Polynomial - Addition of Polynomial, Self-Referential Structure. Introduction to Arrays - array representation.	-	Completed		
3.	Aug	3 rd	6	4 Hrs	UNIT II Linear data structures	4 Hrs	Sorting algorithms with efficiency - Bubble sort, Insertion sort, Merge sort, Quick Sort, Selection Sort, Searching techniques - Linear Search, Binary search. Introduction to Linked List, Implementation of Linked List - Static & Dynamic representation,	-	completed		

4	Aug	4 th	6	4 Hrs	UNIT III Linked List	Types of Linked List - Singly Linked list(All type of operation)	-	Completed
5	Sep	1 st	6	4 Hrs	UNIT III Functions, UNIT IV Stacks	- Doubly Linked list (Create, Display) - Circularly Doubly Linked list (Create, Display) , Generalized linked list – Concept and Representation 1 Introduction , Representation - Static & Dynamic	-	Completed
6	Sep	2 nd	6	4 Hrs	UNIT IV Stacks	Primitive Operations on stack, Application of Stack , Conversion of Infix, stack, postfix, postfix, Evaluation of postfix and prefix. Simulating recursion using stack	-	Completed
7.	Sep	3 rd	6	4 Hrs	UNIT IV Stacks	UNIT V Queue	Primitive Operations on stack prefix, postfix, Evaluation of postfix and prefix. Simulating recursion using stack	Completed
8.	Sep	4 th	6	4 Hrs	UNIT V Queue	UNIT VI Trees	Concept of doubly ended queue. Binary tree, binary search tree	Completed
9.	oct	1 st	6	4 Hrs	UNIT VI Trees	Representation – Static and Dynamic , Operations on BT and BST – create, insert, delete , counting leaf, non-leaf & total	-	Completed

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10.	oct	2 nd	6	4 Hrs	UNIT VI Trees	4 Hrs	Tree Traversals (preorder, inorder, postorder), Application - Heap sort, Height balanced tree- AVL trees- Rotations, AVL tree examples	-	Completed
11.	Nov	1 st	6	4 Hrs	UNIT VII Graph Protecti ng Data	4 Hrs	Concept & terminologies, Graph Representation - Adjacency matrix, inverse adjacency list, adjacency mult list, orthogonal list	-	Completed
12.	Nov	2 nd	6	4 Hrs	UNIT VII Graph Protecti ng Data	4 Hrs	Degree of Graph, Traversals - BFS and DFS, Applications - AOV network - topological sort, AOE network - critical Path	-	Completed

Teaching Plan

Name of Teacher: - prof. Nishant Hanumant Pawar.
Year: - 2022-23
Term: - I

Sub: - Software Engineering Paper: - CA-303 Class: - SYBBA(CA) Division: - -

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	UNIT I Introdu ction to System Concept ts	4 Hrs	Definition, Basic Components, Elements of the System, Types of System, System Characteristics	-	Completed
2.	Aug	2 nd	6	4 Hrs	UNIT II Introdu ction to Softwa re Engi neering	4 Hrs	Definition of Software Characteristics of Software Engineering	-	Completed
3.	Aug	3 rd	6	4 Hrs	UNIT II Introdu ction to Softwa re Engi neering UNIT III Softwa re Develo pment Life Cycle	4 Hrs	Need for Software Engineering, Mc Call's Quality factors, The Software Process, Software Product and Process, V& V Model	-	completed
4	Aug	4 th	6	4 Hrs	UNIT III Softwa re Develo pment Life Cycle	4 Hrs	SDLC, Waterfall Model, Incremental Process Models	-	Completed

5	Sep	1 st	6	4 Hrs	UNIT III Software Development Life Cycle UNIT IV Requirement Engineering	4 Hrs	Model Prototyping Model, Spiral Introduction, Requirement Elicitation	-	Completed
6	Sep	2 nd	6	4 Hrs	UNIT IV Requirement Engineering	4 Hrs	Requirement Elaboration, Requirement Gathering, Feasibility study	-	Completed
7.	sep	3 rd	6	4 Hrs	UNIT IV Stacks UNIT V Analysis And Design Tools	4 Hrs	Fact Finding Techniques, SRS Format Decision Tree and Decision Table, Data Flow Diagrams (DFD) (Up to 2nd level)	-	Completed
8.	sep	4 th	6	4 Hrs	UNIT V Analysis And Design Tools	4 Hrs	Data Dictionary, Elements of DD, Advantages and Disadvantages of DD, Input and Output Design,	-	Completed
9.	oct	1 st	6	4 Hrs	UNIT V Analysis And Design Tools	4 Hrs	Structured Design Concepts, Structure Chart,	-	Completed
10.	oct	2 nd	6	4 Hrs	UNIT V Analysis And Design Tools UNIT VI Design Tools	4 Hrs	Coupling and Cohesion, Compulsory Case Studies on above topics, Definition, Software Testing Process, Unit Testing	-	Completed

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11.	Nov	1 st	6	4 Hrs	UNIT VI Software Testing	4 Hrs	Integration Testing, System Testing	-	Completed
12.	Nov	2 nd	6	4 Hrs	UNIT VII Software Maintenance and Re-engineering	4 Hrs	Maintenance definition and types, Software reengineering, Reverse Engineering, Restructuring and forward Engineering.	-	Completed

Teaching Plan

Name of Teacher: - prof. Mane A.D.
Year: - 2022-23
Term: - I

Sub: - PHP Paper: - CA-304 Class: - SYBBA(CA) Division:- No

Prat-I Teaching Plan										Part-II Execution Plan																																													
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark	1.	Aug	2 nd	3 rd	4 Hrs	UNIT I PHP Basics	UNIT I PHP Calculations with PHP, Using Arrays, Conditional Statements,	-	Completed	Using Loops for Repetitive tasks, Using Loops for Repetitive tasks,	4 Hrs	UNIT II Control Structures and Loops	4 Hrs	UNIT II Control Structures and Loops	4 Hrs	Combining Loops and Arrays, PHP's Built-in functions.	-	Completed	4	Sep	1 st	6	4 Hrs	UNIT II Control Structures and Loops	4 Hrs	UNIT III Loops and Control Structures	4 Hrs	UNIT III Functions, Passing Values by Reference, Understanding Objects.	-	Completed	5	Sep	2 nd	6	4 Hrs	UNIT III Functions, Passing Values by Reference, Understanding Objects.	-	Completed	6	Sep	3 rd	6	4 Hrs	UNIT IV Building a Form, Processing a Form's Data	-	Completed

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7.	sep	4 th	6	4 Hrs	UNIT IV Working with Forms UNIT V More with Forms	Differences between POST and GET, Preserving User Input, Dealing with checkboxes and radio buttons	-	Completed
8.	oct	1 st	6	4 Hrs	UNIT V More with Forms	Retrieving values from lists, Validating and restricting data	-	Completed
9.	oct	2 nd	6	4 Hrs	UNIT V More with Forms UNIT VI Storing and Protecting Data	Sending Email Setting and Reading Cookies	-	Completed
10.	oct	3 rd	6	4 Hrs	UNIT VI Storing and Protecting Data	Protecting Online Files	-	Completed
11.	oct	4 th	6	4 Hrs	UNIT VI Storing and Protecting Data UNIT VII MySQL	Understanding Session Variables MySQL database overview	-	Completed
12.	Nov	1 st	6	4 Hrs	UNIT VII MySQL Databases	MySQL database overview	-	Completed

Teaching Plan

Name of Teacher:- Prof. Gaikwad P. V.

Year:- 2022-23

Term:- I

Sub:- Bigdata Paper:- CA-305 Class:- SYBBA(CA) Division:- -

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of Period Available	Topic To Be Taught	No.Of Period Engage	Topics Taught	Deviation In Period	Remark
1	Aug	3 rd		4	1.1 Introduction of bigdata. 1.2 Big Data Analytics 1.3 Application of Big Data	4Hrs	1)INTRODUCTIO N TO BIG DATA 1.1 Introduction of bigdata. 1.2 Big Data Analytics 1.3 Application of Big Data	-	Completed
2.	Aug	4 th		4	2)INTRODUCTIO N TO DATA SCIENCE 2.1 Basics of Data Analytics 2.2 Types of Analytics	4Hrs	2)INTRODUCTI ON TO DATA SCIENCE 2.1 Basics of Data Analytics 2.2 Types of Analytics	-	Completed
3.	Sep	1 st		4	2)INTRODUCTIO N TO DATA SCIENCE 2.2.1 Descriptive, 2.2.2 Predictive, 2.2.3 Prescriptive	4Hrs	2)INTRODUCTI ON TO DATA SCIENCE 2.2.1 Descriptive, 2.2.2 Predictive, 2.2.3 Prescriptive	-	Completed

3.	Sep	2 nd .	4	4Hrs		2)INTRODUCTIO N TO DATA SCIENCE 2.2.4 Statistical Inference 2.3 Populations and samples 2.3.1 Statistical modelling.	Completed	-		Completed
3.	Sep	3 rd	4	4Hrs		3.1 Basics of Machine Learning 3.2 Supervised Machine Learning	Completed	-		Completed
4.	Sep	4 th	4	4Hrs		3.2.1 K- Nearest- Neighbors, 3.2.2 Naïve Bayes 3.2.3 Decision tree 3.2.4 Support Vector Machines	Completed	Completed		Completed
5.	Oct	1 st	4	4Hrs		3.3 Unsupervised Machine Learning 3.3.1 Cluster Analysis 3.3.2 K Means	Completed	Completed		Completed
6.	Oct	2 nd	4	4Hrs		3.3.3 EM Algorithm 3.3.4 Association Rule Mining	Completed	Completed		Completed

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7.	Oct	3 rd	4	4Hrs	3.INTRODUCTION TO MACHINE LEARNING 3.3.5 Apriori Algorithms 3.4 Regression Analysis 3.4.1 Linear Regression	4Hrs	3.INTRODUCTION TO MACHINE LEARNING 3.3.5 Apriori Algorithms 3.4 Regression Linear Regression	Completed	
8	Oct	4 th	4	4Hrs	3.INTRODUCTION TO MACHINE LEARNING 3.4.2 Nonlinear Regression	4Hrs	3.INTRODUCTION TO MACHINE LEARNING 3.4.2 Nonlinear Regression	Completed	
9	Nov	1 st	4	4Hrs	4.DATA ANALYTICS WITH R/ WEKA MACHINE LEARNING 4.1 Introduction	4Hrs	4.DATA ANALYTICS WITH R/ WEKA MACHINE LEARNING 4.1 Introduction	Completed	
10	Nov	2 nd	4	4Hrs	4.DATA ANALYTICS WITH R/ WEKA MACHINE LEARNING 4.2>DataManipulation	4Hrs	4.DATA ANALYTICS WITH R/ WEKA MACHINE LEARNING 4.2>DataManipulation	Completed	

Teaching Plan

Name of Teacher: - Prof. Deshmane S. P.
Year: - 2022-23
Term: - II

Sub: - Networking Paper: - CA-401 Class: - SYBBA(CA) Division:- No

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of Available Period	Topic To Be Taught	No.Of Period Engaged	Topics Taught	Deviation In Period	Remark
1.	Dec	4 th	4	4 Hrs	UNIT I Introduction to Computer Network	4 Hrs	Basics of Computer Network, Definition, Goals, Applications, Network Hardware – Broadcast, Point to Point, Components of Data Communication, Network Topologies, Mesh, Star, Bus, Ring	-	Completed
2.	Dec	5 th	6	4 Hrs	UNIT I Introduction to Computer Network	4 Hrs	Types of Networks, LAN, MAN, WAN, Internetwork, Wireless Network, Modes of Communication, Simplex, Half Duplex, Full Duplex, Server Based LANs & Peer-to-Peer LANs, Protocols and Standard.	-	Completed
3.	Jan	1 st	6	4 Hrs	UNIT I Introduction to Computer Network	4 Hrs	Network Software Protocol, Hierarchies, Layers, Peers, Interfaces, Design Issues of the Layers, Connection Oriented and Connectionless Service OSI Reference Model: Functions of each Layer, TCP/IP Reference Model, TCP/IP.	-	completed

4	Jan	2 nd	6	4 Hrs	UNIT II Network Models	Addressing, Physical Addresses, Logical Addresses.	Completed	-	Reference Model, TCP/IP Protocol Suite, Addressing, Physical Addresses, Logical Addresses.
5	Jan	3 rd	6	4 Hrs	UNIT II Network Models	Port Addresses, Specific Addresses, IP Addressing, Classful Addressing, Classless Addressing Introduction, Types of Guided Media: Twisted Pair Cable- Physical Structure, Categories, Conn ectors	Completed	-	
6	Jan	4 th	6	4 Hrs	UNIT III Transmission Media.	Coaxial Cable – Physical Structure, Standards, Connectors & Applications Fiber Optic Cable- Physical Structure, Propagation Modes, Connectors & Applications, Unguided Media: Electromagnetic Spectrum for Wireless Communication.	Completed	-	
7.	Feb	1 st	6	4 Hrs	UNIT III Transmission Media.	Propagation Modes Ground, Sky, Line-of-Sight Wireless Transmission: Radio Waves, Microwaves, Infrared. IEEE Standards, Standard Ethernet MAC Sublayer, Physical Layer, Fast Ethernet – Goals, MAC Sublayer, Topology, Implementation	Completed	-	
8.	Feb	2 nd	6	4 Hrs	UNIT IV Wired and Wireless LANs	Gigabit Ethernet – Goals, Implementation, Ten- Gigabit Ethernet, Physical MAC Sublayer, Topology, Implementation	Completed	-	

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9.	Feb	3 rd	6	4 Hrs	UNIT IV Wired and Wireless LANs UNIT V Networks and Devices	4 Hrs	UNIT IV Wired and Wireless LANs UNIT V Networks and Devices	4 Hrs	Layer, Backbone Networks - Bus Backbone, Star Backbone, Virtual LANs Membership, IEEE standards advantages Wireless LAN, IEEE 802.11 Architecture, Bluetooth Architecture (Piconet, Scatternet) Network Connectivity Devices, Active and Passive Hubs	-	Completed	
10.	Feb	4 th	6	4 Hrs	UNIT V Networks and Devices	4 Hrs	Repeater, Bridges - Types of Bridges, Switches, Router, Gateways	-	Completed			
11.	Mar	1 st	6	4 Hrs	UNIT VI Network Security	4 Hrs	Introduction, Need for Security, Security Services : Message - Confidentiality, Integrity, Authentication, Non repudiation, Entity (User)- Authentication. Types of Attack.	-	Completed			
12.	Mar	2 nd	4	4 Hrs	UNIT VI Network Security	4 Hrs	Cryptography, Plain Text, Cipher Text, Encryption, Decryption, Symmetric Key and Asymmetric Key Cryptography, Substitution Techniques, Caesar Cipher, and Transposition Cipher (Problems should be covered), Firewalls- Packet Filter Firewall, Proxy Firewall, Steganography, Copyright	-	Completed			

Teaching Plan

Name of Teacher: - Prof. Pawar N.H.
Year: - 2022-23
Term: - II

Sub: - CPP Paper: - CA-402 Class: - SYBBA(CA) Division:- No

Prat-I Teaching Plan							Part-II Execution Plan			
Sr. No	Month	Week	No.Of Working Days	No.Of Period Available	Topic To Be Taught	No.Of Period Engaged	Topics Taught	Deviation In Period	Remark	
1.	Dec	4 th	2	2 Hrs	UNIT I Introducti on to C++ and features of C++, Input and Output operator in C++, Simple C++ program	2 Hrs	Basic concepts, features, advantages and applications of OOP, Introduction, applications and features of C++, Input and Output operator in C++, Simple C++ program	-	Completed	
2.	Dec	5 th	6	4 Hrs	UNIT II Beginning with C++	4 Hrs	Data type and Keywords, Declaration of variables, dynamic initialization of variables, reference variable, Operators: Scope resolution operator, Memory management operators Manipulators	-	Completed	
3.	Jan	1 st	6	4 Hrs	UNIT I UNIT II Beginning with C++ UNIT III Classes and Objects	4 Hrs	Functions: Function prototyping, call by reference and return by reference, inline functions, Default arguments Structure and class, Class, Object, Access specifiers, Defining data member, Defining member functions inside and outside class definition	-	completed	
4.	Jan	2 nd	6	4 Hrs	UNIT III Classes and Objects	4 Hrs	Simple C++ program using class, Memory allocation for objects, Static data members and static member functions, Array of objects, objects as a function argument	-	Completed	
					UNIT		Friend function and Friend			

5	Jan	3 rd	6	4 Hrs	Classes and Objects	UNIT IV Constructors and Destructors	4 Hrs	class, Function returning objects. Constructors, Types of constructors: Default, Parameterized, Copy, Multiple constructors in a class	-	Completed
6	Jan	4 th	6	4 Hrs.	Constructors and Destructors	UNIT IV Constructors and Destructors	4 Hrs	Constructors with default argument, Dynamic initialization of constructor, Dynamic constructor, Destructor	-	Completed
7.	Feb	1 st	6	4 Hrs	UNIT V Inheritance	UNIT V Inheritance	4 Hrs	Introduction, Defining class, Types of Inheritance, Virtual Base Class	-	Completed
8.	Feb	2 nd	6	4 Hrs	UNIT V Inheritance	UNIT VI Polymorphism	4 Hrs	Abstract class, Constructors in derived class Compile Time Polymorphism, Introduction, rules for overloading operators, Function overloading, Operator Overloading, unary and binary	-	Completed
9.	Feb	3 rd	6	4 Hrs	UNIT VI Polymorphism	UNIT VI Polymorphism	4 Hrs	Operator Overloading, using friend function, Overloading insertion and extraction operators, String manipulation using operator overloading	-	Completed
10.	Feb	4 th	6	4 Hrs	UNIT VI Polymorphism	UNIT VI Polymorphism	4 Hrs	Runtime Polymorphism, this Pointer, pointers to objects, pointer to derived	-	Completed

Teaching Plan

Name of Teacher: - *Prof. Pawan N. H.*
 Year: - 2022-23
 Term: - II

Sub: - Operating System Paper: - CA-403 Class: - SYBBA(CA) Division: -

Prat-I Teaching Plan										Part-II Execution Plan				
Sr. No	Month	Week	No. Of Working Days	No. Of Period Available	Topic To be Taught	No. Of Period Engaged	Topics Taught	Deviation In Period	Remark					
1.	Dec	4 th	3	3 Hrs	UNIT I Introduction to Operating System	3 Hrs	What is operating system, architecture, Services provided by OS, Types of OS, Operating System structure -- Simple structure - Layered approach - Micro kernels - Modules, Virtual Machines – Introduction, Benefit.	-	Completed					
2.	Dec	5 th	6	4 Hrs	UNIT II System Structure	4 Hrs	User operating system Interface, System Calls-- Process or job control - Device Management, System Program, Operating System Structure Process Concept – - The process - Process states - Process control block	-	Completed					
3.	Jan	1 st	6	4 Hrs	UNIT III Process Management	4 Hrs	Process Scheduling -- Schedulers - Context Switch, Operation on Process -- - Process Creation -Process Termination, inter process Communication –Shared memory system - Message passing systems.	-	completed					

4	Jan	2 nd	6	4 Hrs	UNIT IV CPU Scheduling	Scheduling Concepts -- CPU-I/O Burst Cycle - CPU Scheduler -Preemptive and Non-preemptive scheduling -- Dispatcher, scheduling criteria, Scheduling Algorithms --	-	Completed
5	Jan	3 rd	6	4 Hrs	UNIT IV CPU Scheduling	FCFS - SJF (Preemptive & non-preemptive) - Priority Scheduling (Preemptive & Non-preemptive) - Round Robin Scheduling - Multilevel Queues - Multilevel Feedback queues. Introduction, Critical section problem, Semaphores -- - Concept - Implementation	-	Completed
6	Jan	4 th	6	4 Hrs.	UNIT V Process Synchronization	Deadlock & Starvation - Types of Semaphores, Classical Problems of synchronization -- Bounded buffer problem - Readers & writers' problem - Dining philosophers problem	-	Completed
7.	Feb	1 st	6	4 Hrs	UNIT IV Deadlock	Introduction, Deadlock Characterization, Necessary Condition, Deadlock Handling Technique--	-	Completed
8.	Feb	2 nd	6	4 Hrs	UNIT IV Deadlock	Deadlock Prevention - Deadlock Avoidance -- Safe State - Resource allocation graph algorithm - Banker's algorithm - Deadlock Detection - Recovery from Deadlock - Process Termination - Resource Preemption . Background -- Basic hardware - Address binding - Logical versus physical address space -	-	Completed

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Name of Teacher: - Prof. Deshmane S.P.
Year: - 2022-23
Term: - II

Sub: - Advance PHP Paper: - CA-404 Class: - SYBBA(CA) Division:- No

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of Period Available	Topic To Be Taught	No.Of Period Engaged	Topics Taught	Deviation In Period	Remark
1.	Dec	4 th	6	4 Hrs	UNIT I Introduction to Object Oriented Programming in PHP	4 Hrs	Classes Objects, Introspection, Serialization, Inheritance.	-	Completed
2.	Dec	5 th	6	4 Hrs	UNIT I Web Technology ques.	4 Hrs	Server information, Processing forms, Sticky forms	-	Completed
3.	Jan	1 st	6	4 Hrs	UNIT II Web Technology ques	4 Hrs	Setting response headers	-	completed
					UNIT III Setting response header		Introduction XML, XML document Structure, PHP and XML		

Teaching Plan

Name of Teacher: - Prof. Deshmane S. P.

Year: - 2022-23

Term: - I

Sub: - Cyber Security

Paper: - CA-501 Class: - TYBBA(CA) Division: -

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	Chapter I:- Introduction to Cyber Crime and Cyber Security 1.1 Introduction 1.2 Cybercrime: Definition and Origin of the Word 1.3 Cybercrime and Information Security 1.4 Who are Cybercriminals?	4Hrs	Chapter I:- Introduction to Cyber Crime and Cyber Security 1.1 Introduction 1.2 Cybercrime: Definition and Origin of the Word 1.3 Cybercrime and Information Security 1.4 Who are Cybercriminals?	-	Completed
2.	Aug	2 nd	6	4 Hrs	1.5 Classifications of Cybercrimes: E-Mail Spoofing, Spamming, Cyber defamation, Internet Time Theft, Salami Attack/Salami Technique, Data Diddling, Forgery, Web Jacking, Newsgroup, Spam/Crimes Emanating from Usenet Newsgroup, Industrial Espionage, Spying/Industrial Espionage, Hackling, OnlineFrauds, Computer Sabotage, Email Bombing/Mail Bombs, Intrusions, Password Sniffing, Credit Card Frauds, Frauds, Identity Theft	4Hrs	1.5 Classifications of Cybercrimes: E-Mail Spoofing, Spamming, Cyber defamation, Internet Time Theft, Salami Attack/Salami Technique, Data Diddling, Forgery, Web Jacking, Newsgroup, Spam/Crimes Emanating from Usenet Newsgroup, Industrial Espionage, Spying/Industrial Espionage, Hackling, OnlineFrauds, Computer Sabotage, Email Bombing/Mail Bombs, Intrusions, Password Sniffing, Credit Card Frauds, Identity Theft	-	Completed
3.	Aug	3 rd	6	4 Hrs	1.6 Definition of Cyber Security 1.7	4 Hrs	1.6 Definition of Cyber Security 1.7	-	

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	10.	Feb	4 th	6	4 Hrs	UNIT VI PHP Frame work a / (Joomla) Druple)	Administering Joomla/Druple ,Presentation Administration, Content Administration, System Administration	-	Completed	
	11.	Mar	1 st	6	4 Hrs	UNIT VI PHP Frame work a / (Joomla) Druple)	Working with Joomla/Druple, Adding articles, Adding menus to point to content, Installing new templates, Creating templates	-	Completed	
	12.	Mar	2 nd	4	4 Hrs	UNIT VI PHP Frame work a / (Joomla) Druple)	Adding a Module and Component , Modifying the existing templates , Creating templates with web editors , Creating real templates	-	Completed	

4	Jan	2 nd	6	4 Hrs	UNIT III Setting response header	4 Hrs	XML parser, The document object model	-	Completed
5	Jan	3 rd	6	4 Hrs	UNIT III Setting response header	4 Hrs	The simple XML extension, Changing a value with simple XML	-	Completed
6	Jan	4 th	6	4 Hrs.	UNIT IV Ajax with PHP	4 Hrs	Understanding java scripts for AJAX, AJAX web application model	-	Completed
7.	Feb	1 st	6	4 Hrs	UNIT V Introduction to Web Services	4 Hrs	Definition of web services, Basic operational model of web services, tools and technologies enabling web services, Benefits and challenges of using web services.	-	Completed
8.	Feb	2 nd	6	4 Hrs	UNIT V Introduction to Web Services	4 Hrs	Web services Architecture and its characteristics, Core building blocks of web services, Standards and technologies available for implementing web services	-	Completed
9.	Feb	3 rd	6	4 Hrs	UNIT V Introduction to Web Service	4 Hrs	Web services communication models, Basic steps of implementing web services.	-	Completed

8.	sep	4 th	6	4 Hrs	Service Security 2.10 Attacks on Mobile/Cell Phones Chapter 3:- Tools and Methods Used in Cybercrime 3.1 Introduction 3.2 Proxy Servers and Anonymizers 3.3 Phishing 3.4 Password Cracking 3.5 Keyloggers and Spywares 3.6 Virus and Worms 3.7 Trojan Horses and Backdoors 3.8 Steganography 3.9 DOS and DDOS Attacks 3.10 SQL Injection 05 4	Authentication Service Security 2.10 Attacks on Mobile/Cell Phones Chapter 3:- Tools and Methods Used in Cybercrime 3.1 Introduction 3.2 Proxy Servers and Anonymizers 3.3 Phishing 3.4 Password Cracking 3.5 Keyloggers and Spywares 3.6 Virus and Worms 3.7 Trojan Horses and Backdoors 3.8 Steganography 3.9 DOS and DDOS Attacks 3.10 SQL Injection 05 4	Completed	
9.	oct	1 st	6	4 Hrs	Chapter 4 :- Cybercrimes and Cyber security: The Legal Perspectives 4.1 Introduction 4.2 Cybercrime and the Legal Landscape around the World 4.3 Why Do We Need Cyberlaws: The Indian Context 4.4 The Indian IT Act 4.5 Challenges to Indian Law and Cybercrime in India	Chapter 4 :- Cybercrimes and Cyber security: The Legal Perspectives 4.1 Introduction 4.2 Cybercrime and the Legal Landscape around the World 4.3 Why Do We Need Cyberlaws: The Indian Context 4.4 The Indian IT Act 4.5 Challenges to Indian Law and Cybercrime Scenario in India	Completed	
10.	oct	2 nd	6	4 Hrs	4.6 Consequences of not Addressing the Weakness in Information Technology Act 4.7 Digital Signatures and the Indian IT Act 4.8 Amendments to the Indian IT Act 4.9 Cybercrime and Punishment 4.10	4.6 Consequences of not Addressing the Weakness in Information Technology Act 4.7 Digital Signatures and the Indian IT Act 4.8 Amendments to the Indian IT Act 4.9 Cybercrime and Punishment 4.10	Completed	

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11.	Nov	1 st	6	4 Hrs	and Students: Indian Scenario Chapter 5:- Cyber Forensics 5.1 Introduction 5.2 Historical background of Cyber forensics 5.3 Digital Forensics Science 5.4 The Need for Computer Forensics 5.5 Cyber Forensics and Digital evidence 5.6 Forensics Analysis of Email 5.7 Digital Forensics Lifecycle 5.8 Challenges in Computer Forensics	Completed
12.	Nov	2 nd	6	4 Hrs	and Students: Indian Scenario Chapter 6:- Cybersecurity: Organizational Implications 6.1 Organizational Implications: Cost of cybercrimes and IPR issues 6.2 Web threats for organizations 6.3 Security and Privacy Implications from Cloud Computing 6.4 Social media marketing 6.5 Social computing and the associated challenges for protecting people's privacy in the organization	Completed

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- Division:-

Teaching Plan									
Name of Teacher: - Prof. Deshmane S.P.									
Year: - 2022-23									
Term: - I									
Sub: - OOSE									
Paper: - CA-502 Class: - TYBBA(CA) Division:- -									
Prat-I Teaching Plan									
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	1.Introduction and basics of Software Modelling 1.1 Software Life Cycle Models (Revision of SE) 1.2 System Concepts 1.3 Project Organization	4 Hrs	1.Introduction and basics of Software Modelling 1.1 Software Life Cycle Models (Revision of SE) 1.2 System Concepts 1.3 Project Organization	-	Completed
2.	Aug	2 nd	6	4 Hrs	1.4 Communication in Project Management 1.5 Risk management in Project Management	4 Hrs	1.4 Communication in Project Management 1.5 Risk management in Project Management	-	Completed
3.	Aug	3 rd	6	4 Hrs	2.SRS Documentation 2.1 SRS Specification 2.2 Requirement Elicitation 2.3 Business Engineering	4 Hrs	2.SRS Documentation 2.1 SRS Specification 2.2 Requirement Elicitation 2.3 Business Engineering	-	Completed
4	Aug	4 th	6	4 Hrs	3.Introduction to UML 3.1 Concept of UML 3.2 Advantages of UML	4 Hrs	3.Introduction to UML 3.1 Concept of UML 3.2 Advantages of UML	-	Completed
5	Sep	1 st	6	4 Hrs	4.Object Oriented Principles and Concepts and 4.1 What is Object Orientation? - Introduction, Object, Classes and Instance, Polymorphism, Inheritance	4 Hrs	4.Object Oriented Principles and Concepts and 4.1 What is Object Orientation? - Introduction, Object, Classes and Instance, Polymorphism, Inheritance	-	Completed
Part-II Execution Plan									

6	Sep	2 nd	6	4 Hrs	5. Structural Modeling 5.1 Classes 5.2 Relationship 5.3 Common Mechanism 5.4 Class Diagram (Minimum three examples should be covered) 5.5 Advanced Classes 5.6 Advanced Relationship	4 Hrs	5. Structural Modeling 5.1 Classes 5.2 Relationship 5.3 Common Mechanism 5.4 Class Diagram (Minimum three examples should be covered) 5.5 Advanced Classes 5.6 Advanced Relationship	-	Completed	
7.	sep	3 rd	6	4 Hrs	5.7 Interface 5.8 Types and Roles 5.9 Packages 5.10 Object Diagram (Minimum three examples should be	4 Hrs	5.7 Interface 5.8 Types and Roles 5.9 Packages 5.10 Object Diagram (Minimum three examples should be	Completed		
8.	sep	4 th	6	4 Hrs	6. Basic Behavioural Modeling 6.1 Interactions 6.2 Use Cases and Use Case Diagram with stereo types (Minimum three examples should be covered)	4 Hrs	6. Basic Behavioural Modeling 6.1 Interactions 6.2 Use Cases and Use Case Diagram with stereo types (Minimum three examples should be covered)	-	Completed	
9.	oct	1 st	6	4 Hrs	6.3 Interaction Diagram (Minimum two examples should be covered) 6.4 Sequence Diagram (Minimum two examples should be covered) 6.5 Activity Diagram (Minimum two examples should be covered) 6.6 State Chart Diagram (Minimum two examples should be covered)	4 Hrs	Interaction Diagram (Minimum two examples should be covered) 6.4 Sequence Diagram (Minimum two examples should be covered) 6.5 Activity Diagram (Minimum two examples should be covered) 6.6 State Chart Diagram (Minimum two examples should be covered)	-	Completed	
10.	oct	2 nd	6	4 Hrs	7. Architectural Modeling	4 Hrs	7 Architectural Modeling	-	Completed	

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11.	Nov	1 st	6	4 Hrs	8.Object Oriented Analysis 8.1 Iterative Development and the Rational Unified Process 8.2 Inception 8.3 Understanding Requirements 8.4 Use Case Model From Inception to Elaboration 8.5	4 Hrs	8.Object Oriented Analysis 8.1 Iterative Development and the Rational Unified Process 8.2 Inception 8.3 Understanding Requirements 8.4 Use Case Model From Inception to Elaboration 8.5	-	Completed
12.	Nov	2 nd	6	4 Hrs	9 Object Oriented Design 9.1 The Booch Method, The Coad and Yourdon Method and Jacobson Rumbaugh Method	4 Hrs	9 Object Oriented Design 9.1 The Booch Method, The Coad and Yourdon Method and Jacobson Rumbaugh Method	-	Completed

Teaching Plan

Name of Teacher: - Prof. Pawar Nishant, H
Year: - 2022-23
Term: - I

Sub: - Java Paper: - CA-503 Class: - TYBBA(CA) Division: -

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	1.1 Introduction to Java. 1.1 Features of Java 1.2 Basics of Java: - Data types, variable, expression, operators, constant.	4 Hrs	1.1 Introduction to Java. 1.1 Features of Java: - Data types, variable, expression, operators, constant.	-	Completed
2.	Aug	2 nd	6	4 Hrs	1.3 Structure of Java Program. 1.4 Execution of Java Program. 1.5 JDK Tools. 1.6 Command Line Arguments.	4 Hrs	1.3 Structure of Java Program. 1.4 Execution of Java Program. 1.5 JDK Tools. 1.6 Command Line Arguments.	-	Completed
3.	Aug	3 rd	6	4 Hrs	1.7 Array and String: Multidimensional Array & 1.7.1 Single Array & 1.7.2 String, String Buffer 1.8 Built In Packages and Classes : 1.8.1 java.util:- Scanner, Date, Math etc. 1.8.2 java.lang	4 Hrs	1.7 Array and String: Multidimensional Array & 1.7.1 Single Array & 1.7.2 String, String Buffer 1.8 Built In Packages and Classes : 1.8.1 java.util:- Scanner, Date, Math etc. 1.8.2 java.lang	-	Completed
4	Aug	4 th	6	4 Hrs	2.Classes, Objects and Methods 2.1 Class and Object 2.2 Object reference 2.3 Constructor: Constructor Overloading 2.4 Method: Returning object form and static keyword,	4 Hrs	2.Classes, Objects and Methods 2.1 Class and Object 2.2 Object reference 2.3 Constructor: Constructor Overloading 2.4 Method: Returning object form and static keyword,	-	Completed
5	Sep	1 st	6		finalize() method 2.6		finalize() method 2.6		Completed

6	Sep	2 nd	6	4 Hrs	3.1 Overview of Inheritance 3.2 Inheritance in constructor 3.3 Inheriting Data members and Methods,	4 Hrs	3. Inheritance, Package and Collection 3.1 Overview of Inheritance 3.2 Inheritance in constructor 3.3 Inheriting Data members and Methods,	-	Completed
7.	sep	3 rd	6	4 Hrs	3.4 Multilevel Inheritance Handle multilevel constructors 3.5 Use of super and final keyword 3.6 Interface: 3.7 Creation and Implementation of an interface, Interface reference	4 Hrs	3.4 Multilevel Inheritance overriding Handle multilevel constructors 3.5 Use of super and final keyword 3.6 Interface: 3.7 Creation and Implementation of an interface, Interface reference	-	Completed
8.	sep	4 th	6	4 Hrs	3.8 Interface inheritance 3.9 Dynamic method dispatch 3.10 Abstract class 3.11 Comparison between Abstract Class and interface 3.12 Access control 3.13 Packages 3.13.1 Creating user defined packages 3.13.2 Creating Java Built in packages	4 Hrs	3.8 Interface inheritance 3.9 Dynamic method dispatch 3.10 Abstract class 3.11 Comparison between Abstract Class and interface 3.12 Access control 3.13 Packages 3.13.1 Packages 3.13.2 Creating user defined packages 3.13.3 Java Built in packages	-	Completed
9.	oct	1 st	6	4 Hrs	3.13.4 Import statement, Static import 3.14.1 Collection 3.14.2 Interfaces: Collection, List, Set 3.14.3 Enumeration, Iterator, ListIterator, Vector, HashSet	4 Hrs	3.13.4 Import statement, Static import 3.14.1 Collection 3.14.2 Interfaces: Collection, List, Set 3.14.3 Enumeration, Iterator, ListIterator, Vector, HashSet	-	Completed

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10.	oct	2 nd	6	4 Hrs	4.file and Exception Handling Exception 4.1 Exception and Error 4.2 Use of try, catch, throw, throws and finally 4.3 Built in Exception 4.4 Custom exception 4.5 Throwable Class.	Completed
11.	Nov	1 st	6	4 Hrs	File Handling 4.6 Overview of Different Stream (Byte Stream, Character stream) 4.7 Readers and Writers class 4.8 File Class 4.9 File Input Stream , File Output Stream 4.10 Input Stream Reader and Output Stream Writer class 4.11 FileReader and FileWriter class 4.12 Buffered Reader class. 8 1,2,3 5 Applet, AWT, Event and Swing Programming Applet 5.1 Introduction	Completed
12.	Nov	2 nd	6	4 Hrs	5 Applet 5.1 Introduction, 5.2Typesapplet 5.3 Applet Lifecycle 5.3.1 Creating applet 5.3.2 Applet tag	Completed

Teaching Plan

Name of Teacher: - Prof. Deshmane S.P.

Year: - 2022-23

Term: - I

Sub: - Python

Paper: - CA-504 Class: - TYBBA(CA) Division: -

Prat-I Teaching Plan					Part-II Execution Plan				
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Aug	1 st	6	4 Hrs	Unit 1: Introduction to Python 1.1 History, feature of Python, setting up path, working with python interpreter, basic syntax, variable and data types, operators 1.2 Conditional statements-If, If-Else, nested if-else, Examples.	4 Hrs	Unit 1: Introduction to Python 1.1 History, feature of Python, setting up path, working with python interpreter, basic syntax, variable and data types, operators 1.2 Conditional statements-If, If-Else, nested if-else, Examples. 1.3	-	Completed
2.	Aug	2 nd	6	4 Hrs	1.3 Looping-For, While, Nested loops, Examples 1.4 Control Statements-Break, Continue, Pass. 1.5 String Manipulation-Accessing String, Basic Operations, String Slices, Function and Methods, Examples. 1.6 Lists-Introduction, accessing list, operations, working with lists, function & methods.	4 Hrs	1.3 Looping-For, While, Nested loops, Examples 1.4 Control Statements-Break, Continue, Pass. 1.5 String Manipulation-Accessing String, Basic Operations, String Slices, Function and Methods, Examples. 1.6 Lists-Introduction, accessing list, operations, working with lists, function & methods.	-	Completed
3.	Aug	3 rd	6	4 Hrs	1.7 Tuple-Introduction, Accessing tuples, operations working, function & methods. 1.8 Dictionary Introduction, Accessing tuples, operations working, function & methods, Examples. 1.8	4 Hrs	1.7 Tuple-Introduction, Accessing tuples, operations working, function & methods, Examples. 1.8	-	Completed

4	Aug	4 th	6	4 Hrs	1.9 Functions-Defining a function, types of function, function, anonymous arguments, global & local variable, Examples	values in dictionaries, dictionaries, properties, function, Examples	
5	Sep	1 st	6	4 Hrs	Unit 2: Modules and Packages 2.1 Built in Modules 2.1.1 Importing modules in python 2.1.2 Working with Random Modules. 2.1.3 E.g. - built-ins, time, date, calendar, sys, etc 2.2 User Defined Functions 2.2.1 Structure of Python Modules 2.3 2.3.1 Preddefined Packages 2.3.2 User defined Packages	working with dictionaries, properties, function, Examples	
4	Aug	4 th	6	4 Hrs	1.9 Functions-Defining a function, types of function, calling a function, defining a function, types of function, anonymous function, global & local variable, Examples	Accessing values in dictionaries, working with dictionaries, properties, function, Examples	
5	Sep	1 st	6	4 Hrs	Unit 2: Modules and Packages 2.1 Built in Modules 2.1.1 Importing modules in python 2.1.2 Working with Random Modules. 2.1.3 E.g. - built-ins, time, date, calendar, sys, etc 2.2 User Defined Functions 2.2.1 Structure of Python Modules 2.3 2.3.1 Preddefined Packages 2.3.2 User defined Packages	working with dictionaries, properties, function, Examples	
6	Sep	2 nd	6	4 Hrs	Unit 3: Classes, Objects and Inheritance 3.1 Classes and Objects 3.1.1 Classes as User Defined Data Type 3.1.2 Objects as Instances of Classes 3.1.3 Creating Class and Objects 3.1.4 Creating Objects By Passing Values 3.1.5 Variables & Methods in a Class 3.2 Inheritance 3.2.1 Single Inheritance 3.2.2 Multiple Inheritance	Accessing values in dictionaries, working with dictionaries, properties, function, Examples	
6	Sep	6	4 Hrs	4 Hrs	Unit 3: Classes, Objects and Inheritance 3.1 Classes and Objects 3.1.1 Classes as User Defined Data Type 3.1.2 Objects as Instances of Classes 3.1.3 Creating Class and Objects 3.1.4 Creating Objects By Passing Values 3.1.5 Variables & Methods in a Class 3.2 Inheritance 3.2.1 Single Inheritance 3.2.2 Multiple Inheritance	Accessing values in dictionaries, working with dictionaries, properties, function, Examples	
Completed	Completed	-	-	4 Hrs	Unit 3: Classes, Objects and Inheritance 3.1 Classes and Objects 3.1.1 Classes as User Defined Data Type 3.1.2 Objects as Instances of Classes 3.1.3 Creating Class and Objects 3.1.4 Creating Objects By Passing Values 3.1.5 Variables & Methods in a Class 3.2 Inheritance 3.2.1 Single Inheritance 3.2.2 Multiple Inheritance	Completed	Completed

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12.	Nov	2 nd	6	4 Hrs	Pytorch, Keras 6.5 Natural Language Processing.	4 Hrs	Pytorch, Keras 6.5 Natural Language Processing.	-	Completed
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Teaching Plan

Name of Teacher: - Prof. Deshmane S.P.

Year: - 2022-23

Term: - II

Sub: - RT In IT

Paper: - CA-601 Class: - TYBBA(CA)

Part-II Execution Plan

Prat-I Teaching Plan

Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark
1.	Dec	4 th	6	4 Hrs	1.Introduction to recent trends 1.1 Artificial Intelligence 1.2 Data Warehouse 1.3 Spark Mining 1.4 Spark	4 Hrs	1.Introduction to recent trends 1.1 Artificial Intelligence 1.2 Data Warehouse 1.3 Spark Mining 1.4 Spark	-	Completed
2.	Dec	5 th	6	4 Hrs	2.Artificial Intelligence 2.1 Introduction& Applications of A Artificial	4 Hrs	2.Artificial Intelligence 2.1 Introduction& Applications of A Artificial	-	Completed
3.	Jan	1 st	6	4 Hrs	2.3 Artificial Intelligence, Intelligent Systems, Knowledge-based Systems, AI Techniques 2.4 Early work in AI & related fields.	4 Hrs	2.3 Artificial Intelligence, Intelligent Systems, Knowledge-based Systems, AI Techniques 2.4 Early work in AI & related fields.	-	completed
4	Jan	2 nd	6	4 Hrs	2.5 Defining AI problems as a State Space Search 2.6 Search and Control Strategies	4 Hrs	2.5 Defining AI problems as a State Space Search 2.6 Search and Control Strategies	-	Completed
5	Jan	3 rd	6	4 Hrs	2.7 Problem Characteristics 2.8 AI Problem, Tower of Hanoi, Missionaries & Cannibal Problem	4 Hrs	2.7 Problem Characteristics 2.8 AI Problem, Tower of Hanoi, Missionaries & Cannibal Problem	-	Completed

	6	Jan	4 th	6	4 Hrs.	3 AI Search Techniques 3.1 Blind Search Techniques: BFS, DFS, deepening Search, DLS, iterative	-	Completed	
	7.	Feb	1 st	6	4 Hrs	3.2 Heuristic search techniques: Generate and test, Hill Climbing, Best First search, Constraint Satisfaction, Mean- End Analysis, A*, AO*	-	Completed	
	8.	Feb	2 nd	6	4 Hrs	4. Data Warehousing 4.1 Introduction to Data warehouse 4.2 Structure of Data Warehouse 4.3 Advantages & uses of Data Warehouse 4.4 Architecture of Data Warehouse 4.5 Multidimensional data model 4.6 OLAP Vs. OLTP 4.7 OLAP Operations 4.8 Types of OLAP Servers: ROLAP versus MOLAP Data Mining	-	Completed	
	9.	Feb	3 rd	6	4 Hrs	5.1 Introduction to Data Mining 5.2 Data mining Task 5.3 Data mining issues 5.4 Data mining versus Knowledge Discovery in Database	-	Completed	
	10.	Feb	4 th	6	4 Hrs	5.5 Data Mining Verification vs. Discovery 5.6 Data Pre-processing – Need, Data Cleaning,	-	Completed	

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Teaching Plan

Name of Teacher:- Prof. Pawar N.H

Year: - 2022-23

Term: -II

Subj: - Software Testing
Paper: - CA-602
Class: - TYBBA(CA)

Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught
1.	Dec	4 th	6	4 Hrs	1.Introduction 1.1 Introduction, Nature of errors, 1.2 Testing Objectives 1.3 Testing principles
2.	Dec	5 th	6	4 Hrs	Fundamentals, 1.5 Software reviews, Formal Technical reviews, 1.6 Inspection and walkthrough 1.7 Testing Life Cycle
3.	Jan	1 st	6	4 Hrs	2 Approaches to Testing –Testing Methods 2.1 White Box Testing and types of white box testing 2.2 Test Case Design
4	Jan	2 nd	6	4 Hrs	2.3 Black Box Testing and types of black box testing 2.4 Gray Box Testing
5	Jan	3 rd	6	4 Hrs	3 Software Testing Strategies &Software metrics Process 3.2 Unit
					Topics Taught
			-	n in period	Deviation Remark
Completed			-	Completed	Remark
1.1 Introduction,	Nature of errors, 1.2	Testing Objectives	1.3 Testing principles	1.4 Testing fundamentals, 1.5	Software reviews, Formal Technical reviews, 1.6 Inspection and walkthrough 1.7 Testing Life Cycle
4 Hrs	4 Hrs	4 Hrs	4 Hrs	4 Hrs	4 Hrs
Period engaged	period engage d	No.Of period engaged	No.Of period engaged	No.Of period engaged	No.Of period engaged
Completed	Completed	Completed	Completed	Completed	Completed
Part-I Teaching Plan	Part-II Execution Plan				

	6	Jan	4 th	6	4 Hrs.	3.6 Validation and Acceptance Testing (alpha, Beta testing)	Integration- Top-down, Bottom up 3.4 System Testing 3.5 Acceptance Testing			
7.	Feb	1 st	6	4 Hrs	3.10 Regression Testing 3.11 Smoke Testing 3.13 Load	3.10 Regression Testing 3.11 Smoke Testing 3.13 Load	-	Completed		
8.	Feb	2 nd	6	4 Hrs	4 Software metrics Basic Metrics –size- oriented metric, Function –oriented metric 4.3 Cyclomatic Complexity Metrics Examples on Cyclomatic Complexity	4 Software metrics 4.1 Introduction 4.2 Basic Metrics –size- oriented metric, Function –oriented metric 4.3 Cyclomatic Complexity Metrics Examples on Cyclomatic Complexity	-	Completed		
9.	Feb	3 rd	6	4 Hrs	Testing for Specialized Environments 5.1 Testing GUI's 5.2 Testing of Client/Server Architectures	Testing for Specialized Environments 5.1 Testing GUI's 5.2 Testing of Client/Server Architectures	-	Completed		
10.	Feb	4 th	6	4 Hrs	5.3 Testing Documentation and Help Facilities 5.4 Testing for Real-Time Systems	5.3 Testing Documentation and Help Facilities 5.4 Testing for Real- Time Systems	-	Completed		
11.	Mar	1 st	6	4 Hrs	6. Testing Tools & Assurance (Introduction) 6.1 JUnit, Apache JMeter, Win runner 6.2 Load runner, Rational Robot 6.3 Quality Concepts,	6. Testing Tools & Assurance (Introduction) 6.1 JUnit, Apache JMeter, Win runner 6.2 Load runner, Rational Robot 6.3 Quality Concepts,	-	Completed		

12.	Mar	2 nd	4	4 Hrs	6.6 Software Reliability 6.7 The ISO 9000 Quality Standards 6.8 SQA Plan 6.9 Six sigma 6.10 Informal Reviews	Quality Movement, Background Issues, SQA activities 6.4 Formal approaches to SQA 6.5 Statistical Quality Assurance	Quality Concepts, Quality Movement, Background Issues, SQA activities 6.4 Formal approaches to SQA 6.5 Statistical Quality Assurance	Completed
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Faculty

Department of BBA(CA)
Arts, Science and Commerce College
Indapur, Dist. Pune-413106

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Head

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ARTS, SCIENCE AND
COMMERCE COLLEGE
INDAPUR-413106 DIST-PUNE

Principal

Teaching Plan

Name of Teacher: - Prof. Pawar N.H

Year: - 2022-23

Term: - II

Sub: - Advance Java Paper: - CA-603 Class: - TYBBA(CA)

Prat-I Teaching Plan								Part-II Execution Plan							
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark	Completed	-	Completed	-	Completed	Completed
1.	Dec	4 th	6	4 Hrs	1. JDBC 1.1 The design of JDBC 1.2 Basic JDBC program Concept 1.3 Drivers 1.4 Architecture of JDBC	4 Hrs	1.1 The design of JDBC 1.2 Basic JDBC program 1.3 Drivers 1.4 Architecture of JDBC	-	Completed	Completed	-	Completed	-	Completed	Completed
2.	Dec	5 th	6	4 Hrs	1.5 Making the Connection, ResultSet, PreparedStatement, CollableStatement, Executing SQL commands 1.7 Executing queries	4 Hrs	1.5 Making the Connection, ResultSet, PreparedStatement, CollableStatement, Executing SQL commands 1.7 Executing queries	-	Completed	Completed	-	Completed	-	Completed	Completed
3.	Jan	1 st	6	4 Hrs	2.Networking 2.1 The java.net package 2.2 Connection oriented transmission – Stream Socket Class	4 Hrs	2.Networking 2.1 The java.net package 2.2 Connection oriented transmission – Stream Socket Class	-	completed	Completed	-	Completed	-	Completed	Completed
4	Jan	2 nd	6	4 Hrs	2.3 Creating a Socket to a remote host on a port (creating TCP client and server) 2.4 Simple Socket Program Example.	4 Hrs	2.3 Creating a Socket to a remote host on a port (creating TCP client and server) 2.4 Simple Socket Program Example.	-	Completed	Completed	-	Completed	-	Completed	Completed
5	Jan	3 rd	6	4 Hrs	3.Servlet and JSP 3.1 Introduction 3.2 How it differ from CGI 3.3 Types of servlet 3.4 Life cycle of servlet	4 Hrs	3.Servlet and JSP 3.1 Introduction 3.2 How it differ from CGI 3.3 Types of servlet 3.4 Life cycle of servlet	-	Completed	Completed	-	Completed	-	Completed	Completed
6	Jan	4 th	6	4 Hrs.	3.5 Execution process of Servlet Application	4 Hrs	3.5 Execution process of Servlet Application	-	Completed	Completed	-	Completed	-	Completed	Completed

		7. Feb	1 st	6	4 Hrs	3.9 Introduction to JSP JSP Directives, Tags, Scripting Elements	4 Hrs	4.JSP 3.9 Introduction to JSP	3.6 Session Tracking Servlet- Jdbc 3.7 Cookie class 3.8	Completed	
		8. Feb	2 nd	6	4 Hrs	3.11 Execution process of JSP Application 3.12 Building a simple application using JSP 3.13 JSP with Database	4 Hrs	3.11 Execution process of JSP Application 3.12 Building a simple application using JSP 3.13 JSP with Database	-	Completed	
		9. Feb	3 rd	6	4 Hrs	4.1 Introduction to Thread 4.2 Life cycle of thread 4.3 Thread Creation - By using Thread Class - By Using Runnable interface	4 Hrs	5.Multithreading 4.1 Introduction to Thread 4.2 Life cycle of thread 4.3 Thread Creation - By using Thread Class - By Using Runnable interface	-	Completed	
		10. Feb	4 th	6	4 Hrs	4.4 Priorities and Synchronization 4.5 Inter thread communication 4.6 Implementation of Thread with Applet	4 Hrs	4.4 Priorities and Synchronization 4.5 Inter thread communication 4.6 Implementation of Thread with Applet	-	Completed	
		11. Mar	1 st	6	4 Hrs	Java Beans and RMI Java Beans 5.1 What is 5.3 Using Bean Development kit(BDK) 5.4 Introduction to jar and manifest files 5.5 The java beans API	4 Hrs.	Java Beans and RMI 5.1 What is bean 5.2 Advantages 5.3 Using Bean Development kit(BDK) 5.4 Introduction to jar and manifest files 5.5 The java beans API	-	Completed	
		12. Mar	2 nd	4	4 Hrs	Remote Method Invocation 5.6 Introduction to remote object RMI architecture 5.7 Stubs and skeleton	4 Hrs	Remote Method Invocation 5.6 Introduction to remote object RMI architecture 5.7 Stubs and skeleton	-	Completed	

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Arts, Science and Commerce College
Indapur, Dist. Pune-413106

~~Principal~~

				5.8 Registry 5.9 Setting up RMI 5.10Using RMI with applet						
				5.8 Registry 5.9 Setting up RMI 5.10Using RMI with applet						

Teaching Plan

Name of Teacher: - Prof. Deshmane S.P.

Year: - 2022-23

Term: - II

Sub: - .Net

Paper: - CA-604 Class: - TYBBA(CA)

Prat-I Teaching Plan						Part-II Execution Plan					
Sr. No	Month	Week	No.Of Working Days	No.Of period available	Topic to be taught	No.Of period engaged	Topics Taught	Deviation in period	Remark		
1.	Dec	3 rd	6	2 Hrs	1. Introduction to DOT NET FRAMEWORK 1.1 What is Framework? 1.2 Architecture of Dot Net Framework 1.2.1 Common Language Runtime 1.2.2 Common Type System(CTS)	2 Hrs	1. Introduction to DOT NET FRAMEWORK 1.1 What is Framework? 1.2 Architecture of Dot Net Framework 1.2.1 Common Language Runtime 1.2.2 Common Type System(CTS)	-	Completed		
2.	Dec	4 th	6	4 Hrs	1.2.3 Common Language Specification(CLS) 1.2.3 JIT Compilers 1.2.3 Base Class Library 1.3 IDE (Integrated Development Environment) 1.4 Event Driven Programming	4 Hrs	1.2.3 Common Language Specification(CLS) 1.2.3 JIT Compilers 1.2.3 Base Class Library 1.3 IDE (Integrated Development Environment) 1.4 Event Driven Programming	-	Completed		
3.	Dec	5 th	6	2 Hrs	2. Introduction to VB.Net 2.1 Basics of VB.Net 2.1.1 Operators 2.1.2 Data Types 2.1.3 Control Structures 2.2 Build Windows Applications 2.2.1 Controls: Form, TextBox, Button, Label, CheckBox, ComboBox, RadioButton,	2 Hrs	2. Introduction to VB.Net 2.1 Basics of VB.Net 2.1.1 Operators 2.1.2 Data Types 2.1.3 Control Structures 2.2 Build Windows Applications 2.2.1 Controls: Form, TextBox, Button, Label, CheckBox, ComboBox, RadioButton,	-	completed		

4	Jan	1 st	6	4 Hrs	Timer, Progressbar,Scrollbar, PictureBox, ImageList, TreeView, Toolbar, Statusbar, DataGridView 2.2.2 Menus and PopUp	MonthCalendar	-	Completed	
5	Jan	2 nd	6	4 Hrs	2.2.3 Predefined Dialog controls: Font 2.2.4 DialogBox - InputBox(), MessageBox, MsgBox()	Dialog controls: Color,Save,File,Open, Font 2.2.4 DialogBox - InputBox(), MessageBox, MsgBox()	-		
6	Jan	3 rd	6	4 Hrs	3.1 Language Fundamentals 3.1.1 Data type and Control Constructs 3.1.2 Value and Reference Types,Boxing 3.1.3 Arrays 3.1.4 String class and its various operations 3.1.5 Functions	3.1 Language Fundamentals 3.1.1 Data type and Control Constructs 3.1.2 Value and Reference Types,Boxing 3.1.3 Arrays 3.1.4 String class and its various operations 3.1.5 Functions	-	Completed	
7.	Jan	4 th	6	4 Hrs.	3.2 Object Oriented Concepts 3.2.1 Defining classes and Objects 3.2.2 Access modifiers 3.2.3 Constructors	3.2 Object Oriented Concepts 3.2.1 Defining classes and Objects 3.2.2 Access modifiers 3.2.3 Constructors	-	Completed	
8.	Feb	1 st	6	4 Hrs	3.2.4 Inheritance 3.2.5 Interface 3.2.6 Abstract Class 3.2.7 Method Overloading and Overriding 3.2.8 Delegates	3.2.4 Inheritance 3.2.5 Interface 3.2.6 Abstract Class 3.2.7 Method Overloading and Overriding 3.2.8 Delegates			
9.	Feb	2 nd	6	4 Hrs	4.1 What is ASP.NET? 4.1 Introduction to ASP.NET	4.1 What is ASP.NET? 4.1 Introduction to ASP.NET	-	Completed	

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10.	Feb	3 rd	6	4 Hrs	4.9 ASP.NET events 4.9.1 4.9 HTML events ASP.NET Web control events 4.9.2 Event driven programming and postback 4.10 Introduction to Web forms 4.10.1 Web Controls 4.10.2 Server Controls	4.2 ASP.NET Page Life Cycle 4.3 Architecture of ASP.NET 4.4 Forms, WebPages, HTML forms, 4.5 Request & Response in Non-ASP.NET pages 4.6 Using ASP.NET Server Controls 4.7 Overview of Control structures 4.8 Functions	4.2 ASP.NET Page Life Cycle 4.3 Architecture of ASP.NET 4.4 Forms, WebPages, HTML forms, 4.5 Request & Response in Non-ASP.NET pages 4.6 Using ASP.NET Server Controls 4.7 Overview of Control structures 4.8 Functions	Completed	-	Completed
11.	Feb	4 th	6	4 Hrs	4.10.3 Client Controls 4.10.4 Navigation Controls 4.10.5 Validations 4.10.6 Master Page 4.10.7 State Management Techniques	4.10.3 Client Controls 4.10.4 Navigation Controls 4.10.5 Validations 4.10.6 Master Page 4.10.7 State Management Techniques	4.10.3 Client Controls 4.10.4 Navigation Controls 4.10.5 Validations 4.10.6 Master Page 4.10.7 State Management Techniques	Completed	-	Completed
12.	Mar	1 st	6	4 Hrs	5.1 Basics of Ado.net 5.1.1 Connection Object 5.1.2 Command Object 5.1.3 Dataset Object 5.1.4 Data Table 5.1.5 Data Reader Object 5.1.6 Data Adapter	5.1 Basics of Ado.net 5.1.1 Connection Object 5.1.2 Command Object 5.1.3 Dataset Object 5.1.4 Data Table 5.1.5 Data Reader Object 5.1.6 Data Adapter	5.1 Basics of Ado.net 5.1.1 Connection Object 5.1.2 Command Object 5.1.3 Dataset Object 5.1.4 Data Table 5.1.5 Data Reader Object 5.1.6 Data Adapter	Completed	-	Completed
13.	Mar	2 nd	4	4 Hrs	5.1.6 Data Adapter Object 5.2 Datagridview & Data Binding: Insert, Update, Delete records 5.3 Navigation Using Data Source	5.1.6 Data Adapter Object 5.2 Datagridview & Data Binding: Insert, Update, Delete records 5.3 Navigation Using Data Source	5.1.6 Data Adapter Object 5.2 Datagridview & Data Binding: Insert, Update, Delete records 5.3 Navigation Using Data Source			