

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Department of Computer Science

Teaching Plan (Semester-III, V)

(July-2021 to Dec-2021)

Name of the Teacher: Miss. D. V. Sharma

1. Details of Classes to be taught

Sr. No.	Class	Subject	Course code and title	Total Lecturers:
1	BSc (CS)-TY	Computer Science	U-COS-542 Programming in C#.net	45
2.	BVOC (CT)-SY	Computer Technology	CT.SC.301 PHP, Bootstrap and jQuery	60
3.	BVOC (CT)- TY	Computer Technology	CT.SE.501 Web Programming using Angular	60
4.	MSc (CS)-SY	Computer Science	CS-CC-7 Web Application Development using PHP and MYSQL	60

Course-Programming in C#.net

1. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	<p>Unit - 1 Introduction to .net, Arrays & Operators</p> <p>What is .net, .net Framework, CLR, Visual Studio.net & .net Languages Integrated Development Environment, Project types, c#.net History & design Goals, how c# differs from java, I/O Statement with C#.net, Boxing & Unboxing, Short Circuiting Operator, Array & ArrayListclass, Jagged Array, Hash Table, String Class.</p>	<p>3</p> <p>5</p> <p>7</p>	<p>05/07/2021 To 07/07/2021 12/07/2021 To 20/07/2021 26/07/2021 To 04/08/2021</p>	<p>PPT representation on .net Framework Architecture</p>	<p>--</p>
2	<p>Unit - 2 Properties, Error Handling & Namespaces</p> <p>Properties & its type, Event, Delegate & Multicast Delegate, Thread, Exception handling, using keyword, creating and using namespaces, interface, Method overloading & method overriding, Partial Class</p>	<p>5</p> <p>10</p>	<p>09/08/2021 To 18/08/2021 23/08/2021 To 14/09/2021</p>	<p>Implementation on Program of Exception handling</p>	<p>Unit Test 1</p>

3	<p>Unit - 3 GUI Programming (Windows Application)</p> <p>Event Driven Programming, building windows application with visual studio TextBox, Label & Button Control, Combo Box, List Box, Check Box & Group Box Control DateTimePicker, Timer Control, Tree View, Building Menu, MDI Form, Picture Box, Progress Bar Control, Common Dialog boxes, Introduction to WPF</p>	6 9	<p>20/09/2021</p> <p>To</p> <p>29/09/2021</p> <p>04/10/2021</p> <p>To</p> <p>13/10/2021</p>	<p>Implementation of Program on Windows based application.</p>	--
4	<p>Unit -4 Database Programming</p> <p>How ADO.NET differs from ADO, Advantages of ADO.NET, Connected & Disconnected Architecture, Dataset, Data Reader & Data Adapter Managed Data Providers, Data Grid View Control, Developing ADO.NET Based Application Insert, Update & Delete operation on table, Filling the Dataset.</p>	2 8	<p>18/10/2021</p> <p>To</p> <p>20/10/2021</p> <p>25/10/2021</p> <p>To</p> <p>02/11/2021</p>	<p>Implementation of Database Connectivity</p>	<p>Unit - 2</p>

Course- PHP, Bootstrap and jQuery

1. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	UNIT I: PHP Introduction, Syntax, Variables, Print/Echo, Datatypes, Strings, Constants, Operators, If.....Else.... Elseif, Switch, While Loops, For Loops, Function, Arrays, Forms	8	05/07/2021 To 17/07/2021	PowerPoint presentation on Conditional statement, loops, array.	--
		7	19/07/2021 To 27/07/2021		
2	UNIT II: Introduction to Bootstrap Bootstrap- Get Started, what is Bootstrap? Bootstrap CDN Bootstrap is Mobile-First, Containers, Basic Bootstrap Pages, Bootstrap Grids, Bootstrap Grid System, Grid Classes, and Basic Structure of a Bootstrap Grid, Equal Columns, and Unequal Columns. Typography, Table, Images, Wells, Alerts.	6	30/07/2021 To 07/08/2021	PowerPoint presentation on Bootstrap.	Unit Test - 1
5	09/08/2021 To 17/08/2021				
9	20/08/2021 To 02/09/2021				
3	UNIT III: Bootstrap UI Button, Button groups, Badges/Labels Progress Bars, Pagination, pager, List groups, Panels, Drop Down,	3	06/09/2021 To 11/09/2021	Implementing Bootstrap UI	--
		7	13/09/2021 To 24/09/2021		

	Collapse, Tabs/Pills, Navbars				
4	<p>Unit IV jQuery</p> <p>What is jQuery? Downloading and installing jQuery Creating a simple jQuery, enabled page Overview of jQuery's Retrieving Page Content - Using basic jQuery selectors, filters, attribute filters, Child, visibility, and content filters, Form selectors and filters. Traversing documents, Understanding jQuery statement, Binding and unbinding events, Convenient event helper methods, Using the jQuery event object, jQuery Animations and Effects. Using the jQuery UI Plug in Manipulating Page, Working with Events.</p>	7	<p>25/09/2021 To 16/10/2021</p> <p>18/10/2021 To 02/11/2021</p>	Installation of jQuery	Unit Test - 2

Course-Web Programming using Angular

1. Summary of Lesson Plan

	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I Introduction to TypeScript Introduction, Overview, Environment Setup, Basic Syntax, Variables, Operators, Decision Making, Loops, Functions, Numbers, String, Arrays, Union, Interfaces, Classes, Objects	8 7	05/07/2021 To 17/07/2021 19/07/2021 To 27/07/2021	PowerPoint presentation on Typescript	--
2	Unit II Introduction to Angular What is Browser? Introduction to Angular, History of Angular, Development Environment, Angular Life Cycle, Project Setup, Project Structure, Installation, Bootstrap in Angular.	6 9	30/07/2021 To 07/08/2021 09/08/2021 To 03/09/2021	Installation of Angular	Unit Test - 1

3	<p>Unit III Components, Binding and Directives</p> <p>Components, Module, Scope, Interpolation. Binding- Data Binding, Event Binding, Class Binding, Style Binding, Templates. Directives- Definition, scope, Directive with child scope, Passing data into a Directive.</p>	6 9	04/09/2021 To 14/09/2021 17/09/2021 To 01/10/2021	PowerPoint presentation on Component and bindings.	--
4	<p>Unit IV Pipes, Routing and Animation</p> <p>Pipes, CLI, NgIf, NgSwitch, Ngfor, Services. Routing- Routing modes, Advance Routing. Angular Animation- Installation, using css3 animation, using css3 transition, built in directives.</p>	8 7	04/09/2021 To 12/10/2021 29/10/2021 To 02/11/2021	Implementing animation in angular	Unit Test - 2

Course - Web Application Development using PHP and MYSQL

1. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	<p>UNIT I: Introduction and PHP Basics</p> <p>Introduction to web techniques HTTP basics, Introduction to Web server and Web browser, Introduction to PHP, what does PHP do? Function and String: Defining and calling a function, Default parameters, Variable parameters, Missing parameters, Variable function, Anonymous function, Types of strings in PHP, printing functions, Encoding.</p>	6 4	05/07/2021 To 10/07/2021 12/07/2021 To 16/07/2021	PowerPoint presentation on PHP	--
2	<p>UNIT II: Working with Data, Arrays and Object-Oriented Programming</p> <p>Arrays: Indexed Vs Associative arrays, Identifying elements of an array, Storing data in arrays, Multidimensional arrays, Extracting multiple values, Converting between arrays and variables Introduction to Object Oriented Programming: Classes, Objects, Serialization, Inheritance Interfaces, Encapsulation Working</p>	8 8 4	17/07/2021 To 27/07/2021 28/07/2021 To 05/08/2021 06/08/2021 To	PowerPoint presentation on Array and Object-Oriented Concept	Unit Test - 1

	with Data: FORM element, INPUT elements, validating user input, Passing variables between pages, passing variables through a GET, Passing variables through a POST, Passing variables through a REQUEST, MVC Architecture.		11/08/2021		
3	<p>UNIT III: Web Techniques and MYSQL</p> <p>Cookies & Sessions (JavaScript) Anatomy of a cookie, setting a cookie with PHP, deleting a cookie, creating session cookie, starting a session, working with session variables, destroying a session, Encoding and decoding session variables. Introduction to MySQL Introduction to MySQL, Benefits of MySQL, Basics: reserve words, key words, variables, data types, Types of commands: Data Definition Commands, Data Manipulation Commands, Data Control Commands Clauses: where, order by, group by, having, like, between, Database connectivity PHP framework and Handling email with php Introduction to PHP framework, Features, Applications, one</p>	<p>7</p> <p>8</p> <p>5</p>	<p>12/08/2021 To 21/08/2021</p> <p>23/08/2021 To 31/08/2021</p> <p>01/09/2021 To 06/09/2021</p>	PowerPoint presentation on MySQL	--

Rajarshi Shahu Mahavidyalaya, (Autonomous), Latur

Department of Computer Science

Teaching Plan (Semester-V)

(Dec-2021 to April-2022)

Name of the Teacher: Miss. D. V. Sharma

2. Details of Classes to be taught

Sr. No.	Class	Subject	Course code and title	Total Lecturers
1	B.Voc -TY	Computer Science	CT.SC.602 Software Development using C#.net	60
2.	B.Vov -TY	Computer Technology	CT.GE.602 Data Visualization Tools	60
3.	B.Sc-TY	Computer Computer Science	U-COS-641 Web Programming using PHP and MySQL - XI	45
4.	M.Sc(CS)-FY	Computer Science	M.Sc. CS-CC-6 Web Programming Using ASP.Net	60

Course-Software Development using C#.net

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit - 1 Introduction to .net, Arrays & Operators	5	20/12/2021 To 27/12/2022	Installation of visual studio	--
	What is .net, .net Framework, CLR, Visual Studio.net & .net Languages Integrated Development Environment				
	Project types, c#.net History & design Goals, how c# differs from java, I/O Statement with C#.net, Boxing & Unboxing				
	Short Circuiting Operator, Array & ArrayListclass, Jagged Array, Hash Table, String Class.	5	05/01/2022 To 13/01/2022		
2	Unit - 2 Properties, Error Handling & Namespaces	5	17/01/2022 To 25/01/2022	Creating forms in C#	Unit Test 1
	Properties & its type, Event, Delegate & Multicast Delegate				
	Thread, Exception handling, using keyword, creating and using namespaces, interface				
	Method overloading & method overriding, Partial Class				
		5	27/01/2022 To 03/02/2022		
		5	To 14/02/2022		

3	Unit - 3 GUI Programming (Windows Application)								
	Event Driven Programming, building windows application with visual studio TextBox, Label & Button Control					5	15/02/2022 To 23/02/2022 24/02/2022	Developing windows-based application	--
	Combo Box, List Box, Check Box & Group Box Control DateTimePicker, Timer Control					5	To 07/03/2022		
	Tree View, Building Menu, MDI Form, Picture Box, Progress Bar Control, Common Dialog boxes, Introduction to WPF					5	08/03/2022 To 16/03/2022		
Unit -4 Database Programming	4								
How ADO.NET differs from ADO, Advantages of ADO.NET, Connected & Disconnected Architecture,						5	17/03/2022 To 28/03/2022	Implementing Database connectivity	Unit - 2
Dataset, Data Reader & Data Adapter Managed Data Providers, Data Grid View Control,						5	29/03/2022 To 05/04/2022		
Developing ADO.NET Based Application Insert, Update & Delete operation on table, Filling the Dataset.	5	06/04/2022 To 13/04/2022							

Course- Data Visualization Tools

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit - 1 Tableau Desktop part I	4	18/12/2022 To 30/12/2022	Installation of tableau	--
	Creating Basic Visualizations, Creating Groups and Hierarchies, Bar chart, Geographic map				
	Crosstab report, Scatter plot, Line chart, Tableau Desktop UI, The Tableau product line, Workbook Windows, Visual cues, Tableau Prep , Connecting to DataLive connection, Extract data	5	01/01/2022 To 08/01/2022		
	Combine data sources, Join tables, Blend data sources, Cross-database join, Filtering and Sorting data.	6	10/01/2022 To 20/01/2022		
2	Unit - 2 Tableau Desktop Part II	5	22/01/2022 To 29/01/2022	Implementing real time covid cases example in tableau	Unit Test - 1
	Creating Groups and Hierarchy, Date Functionality, Discrete and continuous dates, Fiscal dates, Mapping Geographic maps, filled maps, mapping options, Heat Map and Highlight Table, difference between heatmap and highlight table, calculations,				

	Histogram				
	Dashboards and Actions, Dashboard design, Dashboards, Dashboard actions Filtering and Sorting Data, sharing your Work Tableau data source, Tableau data extract, Tableau workbook, Tableau packaged workbook.	5	10/02/2022 To 21/02/2022		
3	Unit- 3 R Software Introduction		22/02/2022	Installation of R software	--
	Introduction to R, RDataStructures, Help functions in R -Vectors	5	To 03/03/2022 05/03/2022		
	Scalars - Declarations - recycling-Common Vector operations - Using all and any Vectorized operations	5	To 14/03/2022 15/03/2022		
	NA and NULL values-Filtering-Vectorized if-then else-Vector Equality -Vector Element names	5	To 22/03/2022		
4	Unit IV R Software: Graphs and Charts		24/03/2022	Creating charts and graphs in R software	Unit Test - 2
	Graphs and Charts Pie Charts,	5	To 31/03/2022 04/04/2022		
	Bar Charts, Boxplots	5	To 09/04/2022 11/04/2022		
	Histograms, Line Graphs, Scatterplots	5	To 16/04/2022		

Course-Web Programming using PHP and MySQL -XI

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	UNIT- 1: PHP Basic and Programming Constructs.	4	17/12/2021 To 30/12/2021	Installation of PHP	--
	HTTP basics, Introduction to Web server and Web browser, Introduction to PHP		31/12/2021 To 07/01/2022		
	advantages of PHP. PHP syntax, Variables, Constants, print/Echo Data types,	3	08/01/2022 To 20/01/2022		
	Strings, Constants, while, For, Operators and Expressions, if-else, else if, Switch statement, Break and Continue.	3			
2	UNIT- 2: Function & Arrays Defining and calling	4	21/01/2022 To 28/01/2022	Implementing object-oriented concept	Unit Test - 1
	a function, Default parameters, Variable parameters, Variable function, Types of strings in PHP				

	Printing functions, Encoding andescaping, Comparing strings, Manipulating and searching strings, Regularexpressions , Indexed Vs Associative arrays	4	29/01/2022 To 05/02/2022		
	Multidimensional arrays, Converting between arrays and variables, Traversing arrays, Using arrays, Functions:count, list, in array, current, next, previous, end, each, sort, rsort, assort, array_merge,array_reverse.	3	10/02/2022 To 12/02/2022		
3	UNIT- 3: OOPs and Forms			Developing web-based form	--
	Classes, Objects, Serialization, Inheritance, Interfaces, Encapsulation.	4	17/02/2022 To 25/02/2022		
	FORM element, INPUT elements, Validating user input, Passing variables between pages, Passing variables through a GET, Passing variables through a POST	4	26/02/2022 To 05/03/2022		
	Passing variables through aREQUEST,MVC Architecture.	4	10/03/2022 To 17/03/2022		
UNIT- 4: My SQL			Installation of	Unit Test - 2	

4	Introduction to MySql , Benefits of MySql, reserve words, key words, variables	3	19/03/2022 To 25/03/2022	My SQL	
	data types, Types of commands : Data Definition Commands, Data Manipulation Commands, Data Control Commands	4	26/03/2022 To 07/04/2022		
	Clauses : where , order by , group by , having, like , between, Connectivity with PHP.	3	08/04/2022 To 16/04/2022		

**Name of Teacher
& Signature**

Head of Department

Principal