

# **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**

<b>Sr. No.</b>	<b>Class</b>	<b>Subject</b>	<b>Course code and title</b>	<b>Total Lectures:</b>
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
<b>1</b>	<b>Unit - 1 Introduction to .net, Arrays &amp; Operators</b> 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.	12	05/07/2021 To 02/08/2021	PPT representation on .net Framework Architecture	--
<b>2</b>	<b>Unit - 2 Properties, Error Handling &amp; Namespaces</b> Properties & its type, Event, Delegate & Multicast Delegate, Thread, Exception handling, using keyword, creating and using namespaces, interface, Method overloading & method overriding, Partial Class	12	03/08/2021 To 31/08/2021	Implementation on Program of Exception handling	Unit Test 1

3	<p><b>Unit – 3 GUI Programming (Windows Application)</b></p> <p>Event Driven Programming, building windows application with visual studio TextBox, Label &amp; Button Control, Combo Box, List Box, Check Box &amp; Group Box Control DateTimePicker, Timer Control, Tree View, Building Menu, MDI Form, Picture Box, Progress Bar Control, Common Dialog boxes, Introduction to WPF</p>	11	01/09/2021 To 27/09/2021	Implementation of Program on Windows based application.	--
4	<p><b>Unit -4 Database Programming</b></p> <p>How Ado.net differs from Ado, Advantages of Ado.net, Connected &amp; Disconnected Architecture, Dataset, Data Reader &amp; Data Adapter Managed Data Providers, Data Grid View Control, Developing Ado.net Based Application Insert, Update &amp; Delete operation on table, Filling the Dataset.</p> <p><b>Revision</b></p>	10          05	28/09/2021 To 20/10/2021   25/10/2021 To 02/11/2021	Implementation of Database Connectivity	Unit - 2



## 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	<b>UNIT I: PHP</b> Introduction, Syntax, Variables, Print/Echo, Datatypes, Strings, Constants, Operators, If.....Else.... Elseif, Switch, While Loops, For Loops, Function, Arrays, Forms	15	05/07/2021 To 31/07/2021	PowerPoint presentation on Conditional statement, loops, array.	--
2	<b>UNIT II: Introduction to BootStrap</b> 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.	15	02/08/2021 To 28/08/2021	PowerPoint presentation on Bootstrap.	<b>Unit Test - 1</b>
3	<b>UNIT III: BootStrap UI</b> Button, Button groups, Badges/Labels Progress Bars, Pagination, pager, List groups, Panels.	15	31/08/2021 To 28/09/2021	Implementing Bootstrap UI	--



4	<p><b>Unit IV jQuery</b></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> <p><b>Revision</b></p>	15	<p>01/10/2021          To          30/10/2021</p> <p>01/11/2021</p>	<p>Installation of jQuery</p>	<p>Unit Test - 2</p>
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# 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	<b>Unit I Introduction to TypeScript</b> Introduction, Overview, Environment Setup, Basic Syntax, Variables, Operators, Decision Making, Loops, Functions, Numbers, String, Arrays, Union, Interfaces, Classes, Objects	15	05/07/2021 To 31/07/2021	PowerPoint presentation on Typescript	--
2	<b>Unit II Introduction to Angular</b> What is Browser? Introduction to Angular, History of Angular, Development Environment, Angular Life Cycle, Project Setup, Project Structure, Installation, Bootstrap in Angular.	15	02/08/2021 To 28/08/2021	Installation of Angular	Unit Test - 1

3	<p><b>Unit III Components, Binding and Directives</b></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>	15	<p>31/08/2021 To 28/09/2021</p>	<p>PowerPoint presentation on Component and bindings.</p>	--
4	<p><b>Unit IV Pipes, Routing and Animation</b></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> <p><b>Revision</b></p>	15	<p>01/10/2021 To 30/10/2021</p> <p>01/11/2021 To 02/11/2021</p>	<p>Implementing animation in angular</p>	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	<b>UNIT I: Introduction and PHP Basics</b> 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.	6       4	05/07/2021 To 10/07/2021   12/07/2021 To 16/07/2021	PowerPoint presentation non PHP	--
2	<b>UNIT II: Working with Data, Arrays and Object-Oriented Programming</b> 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	8      8    4	17/07/2021 To 27/07/2021   28/07/2021 To 05/08/2021   06/08/2021 To	PowerPoint presentation non 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	<b>UNIT III: Web Techniques and MYSQL</b>  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: reserved 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	7          8          5	12/08/2021 To 21/08/2021   23/08/2021 To 31/08/2021   01/09/2021 To 06/09/2021	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**

<b>Sr. No.</b>	<b>Class</b>	<b>Subject</b>	<b>Course code and title</b>	<b>Total Lectures</b>
1	B. Voc. (CT) -TY	Computer Science	CT.SC.602 Software Development usingC#.net	60
2.	B. Voc. (CT) TY	Computer Technology	CT.GE.602 Data Visualization Tools	60
3.	B. Sc. TY	Computer Science	U-COS-641 Web Programming using PHPand MySQL - XI	45
4.	M.Sc. (CS) FY	Computer Science	M.Sc. CS-CC-6 Web Programming UsingASP.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	<b>Unit - 1 Introduction to .net, Arrays &amp; Operators</b> 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	20/12/2021 To 27/12/2021	Installation of visual studio	--
		5	28/12/2021 To 04/01/2022		
		5	05/01/2022 To 13/01/2022		
2	<b>Unit - 2 Properties, Error Handling &amp; Namespaces</b> Properties & its type, Event, Delegate & Multicast Delegate Thread, Exception handling, using keyword, creating and using namespaces, interface Method overloading & method overriding, Partial Class	5	17/01/2022 To 25/01/2022	Creating forms in C#	Unit Test 1
		5	27/01/2022 To 07/02/2022		
		5	08/02/2022 To 15/02/2022		

3	<b>Unit – 3 GUI Programming (Windows Application)</b>  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	5	16/02/2022 To 23/02/2022	Developing windows-based application	--
		5	24/02/2022 To 07/03/2022		
		5	08/03/2022 To 16/03/2022		
4	<b>Unit -4 Database Programming</b>  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.	5	17/03/2022 To 28/03/2022	Implementing Database connectivity	Unit - 2
		5	29/03/2022 To 05/04/2022		
		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	<b>Unit – 1 Tableau Desktop part I</b> 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 Combine data sources, Join tables, Blend data sources, Cross-database join, Filtering and Sorting data.	<div>5</div> <div>5</div> <div>5</div>	<div>20/12/2021 To 27/12/2021</div> <div>28/12/2021 To 04/01/2022</div> <div>05/01/2022 To 13/01/2022</div>	Installation of tableau	--
2	<b>Unit – 2 Tableau Desktop Part II</b> Creating Groups and Hierarchy, Date Functionality, Discrete and continuous dates, Fiscal dates, Mapping Geographic maps, filled maps, mapping options, Heat Map,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	<div>5</div> <div>5</div> <div>5</div>	<div>17/01/2022 To 25/01/2022</div> <div>27/01/2022 To 07/02/2022</div> <div>08/02/2022 To 15/02/2022</div>	Implementin greal time covid cases example in tableau	Unit Test - 1

3	<b>Unit- 3 R Software Introduction</b> Introduction to R, RDataStructures, Help functions in R – Vectors Scalars – Declarations – recycling–Common Vector operations – Using all and any Vectorized operations NA and NULL values–Filtering– Vectorized if-then else–Vector Equality –Vector Element names	5	16/02/2022 To 23/02/2022	Installation of R software	--
		5	24/02/2022 To 07/03/2022		
		5	08/03/2022 To 16/03/2022		
4	<b>Unit IV R Software: Graphs and Charts</b> Graphs and Charts Pie Charts, Bar Charts, Boxplots Histograms, Line Graphs, Scatterplots	5	17/03/2022 To 28/03/2022	Creating charts and graphs in R software	Unit Test - 2
		5	29/03/2022 To 05/04/2022		
		5	06/04/2022 To 13/04/2022		



## 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	<b>UNIT- 1: PHP Basic and Programming Constructs.</b> HTTP basics, Introduction to Web server and Web browser, Introduction to PHP advantages of PHP. PHP syntax, Variables, Constants, print/Echo Data types, Strings, Constants, while, For, Operators and Expressions, if-else , else if, Switch statement, Break and Continue.	<div>4</div> <div>3</div> <div>3</div>	<div>17/12/2021 To 30/12/2021</div> <div>31/12/2021 To 07/01/2022</div> <div>08/01/2022 To 20/01/2022</div>	Installation of PHP	--
2	<b>UNIT- 2: Function &amp; Arrays</b> Defining and calling a function, Default parameters, Variable parameters, Variable function, Types of strings in PHP	4	21/01/2022 To 28/01/2022	Implementing object-oriented concept	Unit Test - 1





4	<b>UNIT- 4: My SQL</b>		19/03/2022		
	Introduction to MySql , Benefits of MySql, reserve words, key words, variables	3	To 25/03/2022		
	data types, Types of commands: Data Definition Commands, Data Manipulation Commands, Data Control Commands	4	26/03/2022 To 07/04/2022	Installation of My SQL	Unit Test - 2
	Clauses : where , order by , group by , having, like , between, Connectivity with PHP.	3	08/04/2022 To 16/04/2022		

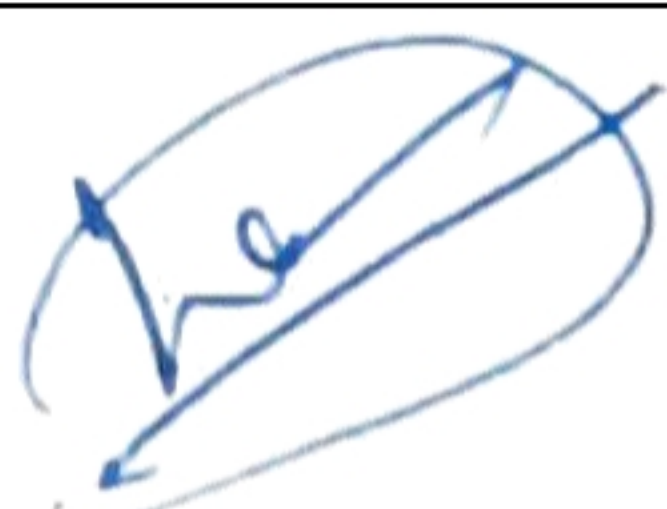
**Course: Web Programming using Asp.net (M.Sc. - FY)**

## 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	<b>Unit-I: Introduction to Web Technology &amp; Asp.net</b> Web Support Languages, Types of .net Application: web, Desktop, Mobile. Role of Web Browser and Web Server Understanding HTTP, LAN, WAN, Client side and Server-side Scripting, Introduction to Ajax and WCF, Introduction to .net, .net Framework Installing visual studio.net, Asp Vs Asp.net, Asp.net Web page life cycle, Asp.net Web form, Page Directive	05   05   05	03.02.2022 To 09.02.2022  10.02.2022 To 16.02.2022  17.02.2022 To 23.02.2022	Powerpoint Presentation on .net framework	
2	<b>Unit-II: Asp.net Applications, CSS and Themes</b> Creating Asp.net Web Application, Auto Post back property, HTML controls Vs Web controls Code Window& Design Window, Server-Side controls, Exception Handling, what is CSS?	05   05	24.02.2022 To 03.03.2022  04.03.2022 To 10.03.2022	Installation of .net	Unit Test -I



	Types of CSS, Theme, Name skin within a Theme.	5	11.03.2022 To 17.03.2022		
3	<b>Unit-III: Redirecting User to Another Page &amp; Master Pages</b> Redirecting Options Response, Redirect Server. Transfer Cross Page Post back, Passing Values between pages, Introduction to Master Page, Content Place Holder and Content tags, Accessing 15 Controls of Master page in Content page, Master page with Menus.	05  05  05	19.03.2022 To 25.03.2022  26.03.2022 To 31.03.2022  01.04.2022 To 08.04.2022	Creating the Master Page	
4	<b>Unit-IV: User Controls, Validation, State Management and Web Services</b> Creating User Control, Required Field Validator, Compare Validator, Range Validator, Regular Expression Validator, Custom Validator, Query String, View State, Hidden Field, Cookies, Session, Creating Web Services, Web Methods, Database Oriented Asp.net ,Web Application with Grid View.	08      07	09.04.2022 To 21.04.2022    22.04.2022 To 30.04.2022	Creating forms for validation	Activity Based Unit Test-II
5	<b>Seminar</b>		02.05.2022 To 05.05.2022		
6	<b>Revision</b>		06.05.2022 To 10.05.2022		



Name of Teacher

& Signature

D.V. Sharma



Head of Department

- Head  
Dept. of Computer Science  
Rajarshi Shahu Mahavidyalaya, Latur



Principal  
Rajarshi Shahu Mahavidyalaya  
(Autonomous), Latur