**COURSE STRUCTURE**

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| **Course Code** | SCS5053A | | | |
| **Course Category** | **Core** | | | |
| **Course Title** | **Mini Project and Lab on ASP.Net & Lab on Advanced Web Technologies** | | | |
| **Teaching Scheme and Credits Weekly load hrs** | **L** | **T** | **Laboratory** | **Credits** |
| -- | -- | 6hrs | **2** |
| **Pre-requisites**:   * Basic understanding of HTML, XML, Computer programming Languages and MySQL * Basic understanding of Java Script, CSS, C#, Computer programming Languages. | | | | |
| **Course Objective: -**  **Knowledge: To understand concepts with respect to**   1. Dynamic Web Page with server side scripting technologies. 2. Understand development of websites using PHP and MYSQL 3. .NET Architecture 4. ASP.NET Server-side Technologies. 5. Database Connectivity for ASP.NET webpages   **Skills: Design skills of**   1. Implementation of Interactive Web Sites 2. Implementation of Advanced concepts of PHP and JSON. 3. Implementation of .aspx web pages. 4. Implementation of Dynamic web sites.   **Attitude: To develop following**   * + - 1. Understanding Dynamic Web Sites and its working using PHP.       2. To develop following       3. Understanding various concepts of Server side ASP.NET | | | | |
| **Course Outcome:**   1. Be able to program using PHP and MYSQL. 2. Be able to demonstrate various features of Websites developed using PHP. 3. Be able to program using .NET features to develop responsive web pages. 4. Be able to demonstrate various concepts of .NET Framework. 5. Be able to implement dynamic web pages using ASP.NET | | | | |
| **Learning Resources:**  **Reference Book**   1. Programming PHP by Rasmus Lerdorf and Kevin Tatroe, O'Reilly publication 2. Beginning ASP.NET 4.5 in C# and VB, Wrox, 2012, ISBN-10: 1118311809 | | | | |
| **Pedagogy:**   * Participative learning, discussions, programming concepts, application of programming concepts in PHP and Database, experiential learning through practical problem solving, assignments. * Application of programming concepts in C#, ASP.NET   A**ssessment Scheme:**   |  |  |  |  | | --- | --- | --- | --- | | **Lab Work** | **Class Participation** | **Mini Project** | **Total** | | 20 | 20 | 10 | 50 | | | | | |

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| **Practical Session** | **Lab Work on Advanced Web Technologies** | **No. of Lab Session** |
| 1 | 1. 1. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page. 2. 2. Create Website Registration Form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page. 3. Write two different PHP script to demonstrate passing variables through a URL. 4. Write two different PHP script to demonstrate passing variables with sessions. 5. Write PHP script to demonstrate passing variables with cookies. 6. Write a program to keep track of how many times a visitor has loaded the page. 7. Write an example of Error-handling using exceptions. 8. Write a PHP script to connect MySQL server from your website. 9. 9. Write a program to read customer information like cust\_no, cust\_name, Item\_purchase, and mob\_no, from customer table and display all this information in table format on output screen. 10. Write a program to edit name of customer to “Bob” with cust\_no =1, and to delete record with cust\_no=3. 11. Write a program to read employee information like emp\_no, emp\_name, designation and salary from EMP table and display all this information using table format. 12. Create a dynamic web site using PHP and MySQL. | 12 |
|  | **Lab Work on ASP.NET** |  |
|  | 1. Create an ASP .NET application using Web server controls apply appropriate validation to it. 2. Create an ASP .NET application using Master Pages and Themes and Skins. 3. Create an ASP .NET application to demonstrate binding of GridView, DataList, Repeater, DropDownList, RadioButtonList, CheckBoxList Control using ADO .NET. 4. Create an ASP .NET application to demonstrate LINQ to XML, LINQ to Objects, LINQ to SQL. 5. Create an ASP .NET application to demonstrate Navigation controls. 6. Create an ASP .NET application to demonstrate User and Role management. 7. Create an ASP .NET application to demonstrate User controls | 12 |
|  | **Mini Project**  A dynamic web application will be developed by the students using knowledge of ASP.Net and latest technology. |  |