## Advanced Web Development Practical

| B. Sc. (Information Technology) | | Semester – V | |
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| Course Name: Advanced Web Development Practical | | Course Code: USIT5P3 | |
| Periods per week (1 Period is 50 minutes) | | 3 | |
| Credits | | 2 | |
| | | Hours | Marks |
| Evaluation System | Practical Examination | 2½ | 50 |
| | Internal | -- | -- |

| List of Practical | |
|---|---|
| **1.** | **Write the program for the following:** |
| a. | Create an application to print on screen the output of adding, subtracting, multiplying and dividing two numbers entered by the user in C#. |
| b. | Create an application to print Floyd's triangle till n rows in C#. |
| c. | Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers. |
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| **2.** | **Write the program for the following:** |
| a. | Create a simple application to demonstrate the concepts boxing and unboxing. |
| b. | Create a simple application to perform addition and subtraction using delegate. |
| c. | Create a simple application to demonstrate use of the concepts of interfaces. |
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| **3.** | **Write the program for the following:** |
| a. | Create a simple web page with various server controls to demonstrate setting and use of their properties. (Example : AutoPostBack) |
| b. | Create a simple application to demonstrate your vacation using calendar control. |
| c. | Demonstrate the use of Treeview operations on the web form. |
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| **4.** | **Write the program for the following:** |
| a. | Create a Registration form to demonstrate use of various Validation controls. |
| b. | Create Web Form to demonstrate use of Adrotator Control. |
| c. | Create Web Form to demonstrate use User Controls |
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| **5.** | **Write the program for the following:** |
| a. | Create Web Form to demonstrate use of Website Navigation controls. |
| b. | Create a web application to demonstrate use of Master Page and content page. |
| c. | Create a web application to demonstrate various states of ASP.NET Pages. |
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| **6.** | **Write the program for the following:** |
| a. | Create a web application for inserting and deleting records from a database. |
| b. | Create a web application to display Using Disconnected Data Access and Databinding using GridView. |

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| **7.** | **Write the program for the following:** |
| a. | Create a web application to demonstrate the use of different types of Cookies. |
| b. | Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties. |
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| **8.** | **Write the program for the following:** |
| a. | Create a web application for inserting and deleting records from a database. (Using Execute-Non Query). |
| b. | Create a web application for user defined exception handling. |
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| **9.** | **Write the program for the following:** |
| a. | Create a web application to demonstrate use of GridView button column and GridView events along with paging and sorting. |
| b. | Create a web application to demonstrate data binding using DetailsView and FormView Control. |
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| **10.** | **Write the program for the following:** |
| a. | Create a web application to demonstrate JS Bootstrap Button. |
| b. | Create a web application to demonstrate use of various Ajax controls. |
| c. | Create a web application to demonstrate Installation and use of NuGet package. |

**Books and References:**

| Sr. No. | Title | Author/s | Publisher | Edition | Year |
|---|---|---|---|---|---|
| 1. | Beginning Visual C# 2010 | K. Watson, C. Nagel, J.H Padderson, J.D. Reid, M.Skinner | Wrox (Wiley) | | 2010 |
| 2. | Murach's ASP.NET 4.6 Web Programming in C#2015 | Mary Delamater and Anne Bohem | SPD | Sixth | 2016 |
| 3. | ASP.NET 4.0 programming | J. Kanjilal | Tata McGrawHill | | 2011 |
| 4. | Programming ML.NET | Dino Esposito (Author), Francesco Esposito (Author) | Paperback | | |
| 5. | Ajax : A Beginner's Guide | Steven Holzner | Paperback | | 2017 |
| 6 | Introducing Bootstrap 4 | By Jörg Krause | Apress | | 2016 |