MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent college of Manipal University, Manipal)

Manipal Karnataka 576 104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Department	: Computer Science & Engineering
Subject Name and Code	: Advanced Internet Technology (CSE-403)
Semester & branch	: VII B.Tech. CSE
Name of the faculty	: Mrs. Rajashree Krishna, Mrs. Sucharita Shetty, Mrs Ancilla Pinto, Ms Jimcymol James
No of contact hours/week	: 4

ASSESSMENT PLAN:

1. **In Semester Assessments - 50 %**

   - Written tests   : 40 Marks

   - Surprise quizzes   : 10 MARKS

2. **End Semester Examination - 50 %**

   - Written examination of 3 hours duration (Max. Marks: 50)

Portion for Assignment	
Assignment no.	**Topics**
1	**L1-L9**
2	**L10-18**
3	**L19-L27**
4	**L28-L36**
5	**L37-L45**
Portion for Test	
Test no.	**Topics**
1	**L1-L24**
2	**L25-L40**

Lecture no.	Topics to be covered
1	Introduction to SQL, HTML Basics
2	HTML Basics (Cont.), ASP
3	**The .NET Framework -** The Evolution of Web Development, The .NET Framework
4	**The C# Language -** The .NET Languages, Variables and Data Types, Variable Operations, Object-Based Manipulation.
5	**The C# Language(Cont.) -** Conditional Logic, Loops, Methods
6	**Types, Objects, and Namespaces -** The Basics of Classes, Building a Basic Class, Value Types and Reference Types
7	**Types, Objects, and Namespaces(Cont.) -**, Understanding Namespaces and Assemblies, Advanced Class Programming
8	**Visual Studio -** The Promise of Visual Studio, Creating Websites, Designing a Web Page, The Anatomy of a Web Form, Writing Code, Visual Studio Debugging
9	**Web Form Fundamentals -** The Anatomy of an ASP.NET Application, Introducing Server Controls
10	**Web Form Fundamentals (Cont.) -** Improving the Currency Converter, A Deeper Look at HTML Control Classes
11	**Web Form Fundamentals (Cont.) -** The Page Class, Application Events, ASP.NET Configuration
12	**Web Controls -** Stepping Up to Web Controls, Web Control Classes
13	**Web Controls (Cont.) -** List Controls, Table Controls
14	**Web Controls (Cont.) -** Web Control Events and AutoPostBack, A Simple Web Page
15	**Error Handling, Logging, and Tracing -** Common Errors, Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Logging Exceptions, Page Tracing
16	**State Management -** The Problem of State, View State, Transferring Information Between Pages
17	**State Management (Cont.) -** Cookies
18	**State Management (Cont.) -** Session State, Application State, An Overview of State Management Choices
19	**Validation -** Understanding Validation, The Validation Controls
20	**Rich Controls -** The Calendar, The AdRotator
21	**Rich Controls (Cont.) -** Pages with Multiple Views
22	**Styles, Themes, and Master Pages -** Styles, Themes

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23	**Styles, Themes, and Master Pages (Cont.) -** Master Page Basic, Advanced Master Pages
24	**ADO.NET Fundamentals -** Understanding Data Management, Configuring Your Database
25	**ADO.NET Fundamentals (Cont.) -** SQL Basics, The Data Provider Model
26	**ADO.NET Fundamentals (Cont.) -** Direct Data Access
27	**ADO.NET Fundamentals (Cont.) -** Disconnected Data Access
28	**ADO.NET Fundamentals (Cont.) -** Discussion of Examples
29	**Data Binding -** Introducing Data Binding, Single-Value Data Binding
30	**Data Binding (Cont.) -** Repeated-Value Data Binding
31	**Data Binding (Cont.) -** Data Source Controls
32	**Data Controls -** The GridView, Formatting the GridView, Selecting a GridView Row
33	**Data Controls (Cont.) -** Editing with the GridView, Sorting and Paging the GridView
34	**Data Controls (Cont.) -** Using GridView Templates
35	**Data Controls (Cont.) -** The DetailsView and FormView
36	**Files and Streams -** Files and Web Applications, File System Information
37	**Files and Streams (Cont.) -** Reading and Writing with Streams, Allowing File Uploads
38	**XML -** XML Explained, The XML Classes
39	**XML (Cont.) -** XML Validation, XML Display and Transforms
40	**Security Fundamentals -** Understanding Security, Authentication and Authorization
41	**Security Fundamentals (Cont.) –** Forms Authentication, Windows Authentication
42	**Membership -** The Membership Data Store, The Security Controls, Role-Based Security
43	**Profiles -** Understanding Profiles, Using the SqlProfileProvider
44	**Component-Based Programming –** Uses of Components, Component Jargon, Creating a Component, Properties and State.
45	**Component-Based Programming (Cont.) -** Data-Access Components, The ObjectDataSource
46	**Caching -** Understanding Caching, Output Caching

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47	**Caching (Cont.) -** Data Caching, Caching with Dependencies
48	**Caching (Cont.) -** Discussion of Examples

References:

1. Matthew MacDonald, "Beginning ASP.NET 4.5 in C#", Apress, 2012
2. Stephen Walther, Nate Scott Dudek, "ASP.NET 4.5 Unleashed", Pearson Education Inc., 2013.
3. Adam Freeman, Matthew MacDonald, Mario Szpuszta, "Pro ASP.NET 4.5 in C#", Apress, 2013.
4. Elliotte Rusty Harold & W. Scott Means, "XML In a nutshell", O'Reilly 3rd edition, 2005.

Submitted by:

Mrs. Rajashree Krishna
Mrs. Sucharita Shetty
Miss Ancilla Pinto
Ms. Jimcymol James

(Signature of the faculty)

Date: 30-08-2015

Approved by:

(Signature of HOD)

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