Course: 602 ASP.NET

Course Code	602
Course Title	ASP.NET
Credit	4
Teaching per Week	4 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation, holidays etc.)
Last Review / Revision	June 2018
Purpose of Course	This course helps to learn basics programming of web forms applications using C#.NET.
Course Objective	The objective of the course is to impart basic introduction to Microsoft C#.NET language and concepts of web application development technology.
Pre-requisite	Knowledge of Programming, Object Oriented Programming, Database Management System and Scripting languages like HTML, JavaScript, etc.
Course Out come	Students will be able to develop web forms basic applications using C#.NET.
Course Content	**Unit : 1 : Introduction to C# .NET** 1.1 Language Constructs 1.2 Data Types 1.3 Classes and Objects 1.4 Structures 1.5 Program Structure 1.6 Preprocessor Directives 1.7 Inheritance 1.8 Polymorphism – Overloading, Overriding, etc. 1.9 Properties 1.10 Indexer 1.11 Collection 1.12 Exception Handling 1.13 Delegates 1.14 Events 1.15 Reflection **Unit : 2 : Introduction to ASP.NET and Web Development Concepts** 2.1 Dynamic web pages 2.2 Introduction to ASP 2.3 Web server – Internet Information Server (IIS) 2.4 Architecture of ASP.NET 2.5 ASP.NET Page Lifecycle 2.6 ASP .NET Page Directives **Unit : 3 : Programming in ASP.NET** 3.1 Controls – HTML Controls and ASP.Net Server Controls 3.2 Control Properties and Events 3.3 PostBack 3.4 Exception Handling 3.5 Validation Controls 3.6 Navigation Controls 3.7 Login Controls 3.8 User Controls 3.9 MasterPages **Unit : 4 : Web Application Management** 4.1 State Management 4.1.1 ViewState 4.1.2 Application 4.1.3 Session 4.1.4 Cookie 4.1.5 QueryString

	4.1.6 Profile 4.2 Response Object, Request Object 4.3 Server Object 4.4 web.config and machine.config 4.5 global.asax 4.6 Authentication Methods 4.7 Caching **Unit : 5 : Database Programming with ADO.NET** 5.1 ADO.NET Architecture 5.2 Connection Object 5.3 Command Object 5.4 DataReader Object 5.5 DataAdepter Object 5.6 DataSet Object 5.7 Working with Data Controls 5.8 Design time data binding 5.9 Runtime data binding 5.10 Working with Stored Procedures
Reference Book	1. C# and the .NET Platform by Andrew Troelsen : APress 2. C# The Basics by Vijay Mukhi : BPB 3. C# Essentials by Ben Albabari : O'Reilly 4. Professional C# by Simon Robinson : Wrox 5. ASP.NET - A Beginner's guide by Dave Mercer : TMH 6. Professional ASP.NET : Wrox. 7. ASP.NET Programmer's Reference : Wrox 8. ADO.NET Programmer's Reference : Wrox. 9. Professional C# 2008 by Christian Nagel : Wrox 10. C# The Nuts & Bolts by Akash Sarat & Sonal Mukhi : BPB 11. C# Made Simple : BPB Publication 12. C# 3.0 Unleashed: With the .NET Framework 3.5 by Joseph Mayo : Sams 13. Special Edition Using ASP.NET by Richard Leinecker : Pearson Education 14. ASP.NET Unleashed. : Sams. 15. ASP.NET for Developers : Amundsen.
Teaching Methodology	Class Room Teaching, Discussion and Assignment
Evaluation Method	30% Internal assessment 70% External assessment