

University of Computer Studies, Yangon
B.C.Sc. (BIS-Fourth Semester)
ITSM-102 (Web Programming I)
COURSE DESCRIPTION

Department, Number	ITSM-102 (Part A)	Course Title	Web Programming I (C# + ASP.Net)
Semester Hours	3	Course Coordinator	Daw Wai Wai Lwin

Current Catalog Description

The .NET Framework is designed to provide a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely. And also to build all communication on industry standards to ensure that code based on the .NET Framework can integrate with any other code.

C# is designed and developed by Microsoft, they made it for Windows. C# is best for Windows GUI application.

ADO.NET is a data access technology from the Microsoft.NET Framework that provides communication between relational and non-relational systems through a common set of components. ADO.NET is a set of computer software components that programmers can use to access data and data services from the database.

ASP.NET is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices.

Textbook: None

References:

1. C# 5.0 Programmer's reference by Rod Stephens
2. Programmer's Heaven by FarazRasheed
3. A Programmer's Guide to ADO.NET in C# by Mahesh Chand
4. ASP.Net Web Developer's Guide by Mesbah Ahmed, Chris Garrett

Course Outcomes

The Learning of .NET Framework, C# programming and ADO.Net is designed to fulfill the following:

- To be acquainted how to design, code, compile, and execute business-oriented programs using the C# programming language commands.
- To be perceived to develop user-interfaces that generates user-friendly interfaces and use debugging techniques to find and resolve programming errors.

- To have knowledge to use Window forms for building rich GUI applications and to create rich database applications using ADO.NET.
- To understand the development of applications on the Microsoft platform by using C# general-purpose language was originally designed by Microsoft for being pleasant and well-designed.
- To get the developer experience for building, deploying, and running applications and services that use .NET technologies, such as Windows-based applications and ASP.Net web application.
- To be able to develop web applications using a combination of client-side (JavaScript, HTML,) and server-side technologies (ASP.NET, ADO.NET).

Major Topics Covered in the Course

1. Fundamental construct (types and variables)
2. Expressions and Operators
3. Flow of controls statements
4. Classes and methods
5. Arrays and Collection objects
6. Delegates and lambda expression
7. Query by LINQ
8. SQL Server Database
9. Data Access using ADO.Net objects
10. Introduction to ASP.Net

Grading Procedures: (Fourth Semester)

Your performance in this class will be evaluated using your scores for attendance, assessments, assignments and lab examination or Project and Examination.

Assessment Plan for the Course (Fourth Semester)

	Web Programming I
Attendance	10%
Assessment (Class Participation)	10%
Assignment	40%
Project	40%

