BITS, PILANI -K.K.BIRLA GOA CAMPUS
2011-2012

Course Handout

Date: 08/26/2012

Course Title: Programming and Application Development in C#

Faculty-In-Charge:

Team Members: Krunal Patel, Siddharth Jain, Gowtham Sunkara, Roshan Kumar

Note: Each Lecture is of 2 hours

Scope and Objective of Course:
The goal of C# is to serve as a high-performance language for .NET development—one that is simple, safe, object-oriented, and Internet-centric. This course is intended to teach about all aspects of C# programming, from the language itself, through Windows and Web programming, to making use of data sources, and finally to some new and advanced techniques including Windows 7 Phone App Development.

References: -C# 2005 Programming Black Book, Matt Telles
-Beginning Visual C# 2010, Karli Watson, Christian Nagel, Jacob Hammer Pedersen, Jon D. Reid, Morgan Skinner
-http://msdn.microsoft.com/en-us/library/ms123401.aspx

Course Plan:

Lect. No.	Learning Objectives
	Basics of C#
1	Advantages and Architecture of the .NET Framework
2	Basic Programming Concepts
3	Classes and Objects
4	Properties and Methods
5	Object-Oriented Techniques
6	Working with Arrays
7	Delegates and Events
8	Generics, Handling Exceptions
9	Collection Classes
10	LINQ
	ASP.NET Web Development
11	Validating User Input, Navigating a Website
12	Data Binding, Defining Master Pages
13	Using State Management Techniques
14	Installation of SQL Server, Brief Introduction to SQL, Accessing Data by using ADO.NET
15	Going further with ADO.NET & Improving Performance by using Caching
16	ASP.NET Security Essentials, Deploying an ASP.NET Web Application

	Windows Forms Development		
19-22	Basic Windows Programming		
	Advanced Windows Forms Features		
	Deploying Windows Applications		
	Windows 7 Phone App Development		
23	Starting with Windows Phone		
24	UI Design		
25	Handling Data		
26	Using Sensors and Services		
27	Publishing and Monetizing Apps		

Evaluation Scheme:

Component	Date	Weightage
Mid-sem	TBA	**40%**
Comprehensive	TBA	**60%**