

GUJARAT TECHNOLOGICAL UNIVERSITY

SUBJECT NAME: Compact Framework for MS Windows Mobile (Elective I & II- Group 1)

SUBJECT CODE: 3715306

Semester I

Type of course:

Prerequisite:

1. C Programming
2. C#
3. LINQ & XML.
4. .NET

Rationale:

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE(E)	PA (M)	ESE	PA(I)	
3	2	0	4	70	30	30	20	150

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment;

Content:

Sr. No.	Content	Total Hrs	% Weightage
1	.NET Framework Overview and RT framework, Language Interoperability, Assemblies	10	20
2	Need of C#, Operators, Namespaces & Assemblies, Arrays, Pre-processors, Delegates and Events Boxing and Unboxing, Regular Expression, Collections, Introduction to LINQ	10	20
3	Introduction to Windows Phone 7/Window Phone 8, Tools for Windows Phone 7 OR 8 development Introduction to Silverlight, Different Layouts like StackPanel, Grid, Canvas, Various Controls Using the Silverlight for Windows Phone Toolkit, Using Vibration,Playing sounds with MediaElement Playing videos, Introduction to WCF,Need of WCF service, Marketplace	11	30

Text Books:

1. NET 4.0 Programming 6-In-1, Black Book (With CD)

2. Essential C# 4.0 – By Mark Michaelis /Addison Wesley (EBOOK)
3. Essential Windows Phone 7.5 Application Developments with Silverlight – By Shawn Wildermuth /Addison Wesley
4. CLR via C# by Jeffrey Richter / Microsoft Press

Reference Books:

1. NET Framework 3.5, Wrox Publications
2. NET 3.5 Programming by Black Book/dream Tech
3. Programming Ms Visual C# 2008 By Donis Marshall/Microsoft press
4. C# 2008 by Joel Murach/ Shroff Publication
5. Programming Microsoft LINQ by Paolo Pialorsi/ Microsoft Press
6. Professional ASP .NET 3.5 AJAX by Wrox Publications

Course Outcome:

1. This course may also benefit Microsoft Windows CE developers who have typically used native code (either C or C++) or eVB 3.0 to build Windows CE applications.
2. Before attending this class, students must have familiarity with the .NET Framework concepts. Experience using a .NET language, such as Visual Basic .NET or Visual C#. Creating Windows client applications using the .NET Framework,creating data access components that use ADO.NET to retrieve or update data in a database,building ASP.NET applications, using Extensible Markup Language (XML). Familiarity with basic SQL statements, such as SELECT queries

List of Experiments: (with Open Ended Problems)

1. Write a program to print the sum of first thousand numbers.
2. Write a program to print the multiplication of the table entered number
3. Create a Console base Application to save Employee information on in database to implement following functionality.
Employee information – name, id, pf, basic_salary and department_id
Department – Department_name, department_id, manager_id(employee id of department head)
Display a menu to user to perform the following taks
 - 1) Add Department
 - 2) Add Employee
 - 3) Display list of employees of a department
 - 4) Display total net_salary of employee using formula basic_salary+pf
 - 5) Display sum of salaries department wise
4. Convert the above application in client server application. Display menu at Client and manage database at Server
5. Create a Website, provided following functionality with proper session tracking(Login/Logout) :
 - a. Common Login page for Student/Faculty/Admin
 - b. Admin can
 - i. add Student (rollno, name, course)
 - ii. add faculty(name,subjects)
 - iii. add subjects
 - iv. can associate student with subjects

Major Equipments:

Nokia Lumia mobile phone (Latest Version)

List of Open Source Software/learning website:

MSDN

Windows Mobile SDK

Express version of Visual studio (Latest Version)