

## Course Syllabus:

### C# Compact Framework and Mobile Web Application Programming course

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## Objectives:

This course provides an opportunity for mobile application developers to work into the mobile and web application environment with C# and .NET Compact Framework.

## Medium:

Cantonese supplemented with English

## Prerequisites:

Applicants should have C# programming knowledge.

## Award of Certificate:

Students who archive an attendance of 75% or above are qualified for the Attendance Certificate issued by the Department.

## Topics include:

- Communications and Web Services: HTTP GET Request with Proxy, Using an XML Web Service, Get Map and Directions with MapPoint 3.0
- Data: ADO.NET Data Binding with XML, DataGrid manipulation, SQL Server CE
- Interoperability with native code: Using MessageWindow Class, Launching Applications and Resuming Processes, Notifications and Timed Applications, Playing Sounds
- Windows Forms and Graphics: Background Image on Form, Pocket PC Form Styles, Scrolling Form Contents, Sorting ListView Items, Using the InputPanel Components
- Custom Controls: Button with a Picture, Implementing Events, OnEnter/OnLeave Functionality, Owner-Drawn ListBox, True/False CheckBox
- Smartphone specific: Using Smartphone Back Key and Soft Keys, Using Smartphone Menus
- Using Mobile Internet Controls Runtime: Web applications versus Mobile Web applications, Overview of Mobile Web Form Controls, Type of Mobile Internet Controls, Accessing and Using Data in a Mobile Web Form, Mobile Web Forms and Web Services
- Using Advanced MMIT Controls: Validation Controls, Calendar Controls, Call Control, AdRotator Control
- Customizing for a device: Options for Customization, Using Style Properties and Stylesheet Control, Device Filters and the Device Specific Construct, Property Overrides, Templates, Automatic and Custom Pagination, Applying Customization Options
- Extending the Mobile Internet Toolkit: Mobile Server Controls: Mobile User Controls and Mobile Custom Controls, Device Extensibility

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- Deploying a Mobile Web Application: Debugging Mobile Applications in Development and Production Environments, Deploying a Mobile Web Application

Total Hours: 30