

Event Driven Programming

Course Introduction



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Course Description

- Software Development
- The course is about using event driven programming language to develop software systems
- The course is designed to give introduction to C# to develop Windows Application Programs

Learning Outcomes

- At the end of the course students should be able to:
 - ✓ Understand the concept of event driven programming
 - ✓ Demonstrate knowledge of a high-level object oriented programming language specifically C# language
 - ✓ Be familiar and Use MS Visual Studio IDE to develop Windows applications
 - ✓ Analyze problem domains, design and develop software system for a client or a person using C# as event driven programming language

Course Content

- Introduction
 - ✓ Software development
 - ✓ Event driven programming
 - ✓ .NET framework
 - ✓ MS Visual studio IDE
- Programming with Event Driven in C#
 - ✓ C# fundamentals
- The Elements of event driven programs
 - ✓ Event
 - ✓ GUI Design
- Exception Handling and Data Validation
- Working with Files and Database Programming
 - ✓ File and IO stream
 - ✓ ADO.Net programming
 - ✓ Introduction to LINQ
- Advanced Programming with event driven
 - ✓ Creating Controls On-the-Fly
 - ✓ Connecting C# program with Microsoft Office
 - ✓ Creating ActiveX Controls
 - ✓ Creating Programs for the Internet
 - ✓ Making Programming Easier with add-Ins
 - ✓ Localization/internationalization
 - ✓ Deploying your event driven Applications

Course Organization

- Lectures
- Practical exercises
- Reading Assignments and presentation
- Written Assignments
- Practical Group Projects/software development

Course Assumption and Requirements

➤ Assumed Background

- ✓ Introduction to OOSAD/SAD/Software Engineering course
- ✓ knowledge of OOP in C, C++, or Java
- ✓ Knowledge of relational database system

➤ Course Requirements

- ✓ Every student should attend all lectures(at least 85%) and practical sessions(100%), unless you are not allowed to sit for final exam.
- ✓ Students should group themselves into 5 for the project work and identify their own project titles by the deadline.
- ✓ Students should submit every assignment according to the deadline.
- ✓ Students should present/demonstrate their assignments
 - > All members should equally participate
- ✓ Students should sit for the written examination.
- ✓ Students should onetime, unless do not interrupt the class

Assessment Methods

- The course is assessed by submitted written documents, project results and written examination.
- Percentage contribution to the assessment
 - ✓ **Theoretical -----100%**
 - > Attendance with Participations ----- 5%
 - > Quizzes ----- 10%
 - > Individual Assignments ----- 10%
 - > Group Assignments ----- 10%
 - > Written Tests ----- 15%
 - > Final examination ----- 50%
 - ✓ **Practical -----100%**
 - > Attendance with Participations ----- 10%
 - > Pair work -----10%
 - > Lab Assignments -----20%
 - > Lab Exams -----10%
 - > Software Project -----50%

Software Development Project

- A major component of the course is a software development project.
- The objective is to develop a desktop based software using C# as programming language
- For this purpose, form project teams up to 5 members.
- During the semester, the project team will work together through the full development cycle,

What is next....

- Form project teams having 5 members and
- Submit your project description([previous SAD/OOSAD/OOSE course project recommended](#)) through email before March 15.
- The project description should contain
 - ✓ Your project title
 - ✓ Team member Id, name and email addresses
 - ✓ Short description about the problem you are going to deal with
 - > Include list of functional requirements
 - ✓ FIFO principle will be applied

Reading Materials

- Lalit Arora. .Net framework with C# programming, 2007 India ([HC available in your library](#))
- Brian Bagnal. C# for Java programmer. 2002 USA. ([HC available in your library](#))
- Michael Haluorson. MS Visual C# 2008 Step by Step. 2008 India ([HC available in your library](#))
- Trey Nash. Accelerated C#. USA. 2002. ([HC available in your library](#))
- Deitel, C#-How to Program. USA, 2005 ([HC available in your library](#))
- Joel Murach, Anne Boehm. Murach C# 2012. Mike Murach & Associates Inc USA, 2013 ([Get from Instructor in soft copy](#))
- Svetlin Nakov *et al*. Fundamentals of Computer Programming With C#. Sofia, 2013 ([available at 10.18.3.6](#))
- John Sharp. Microsoft Visual C# 2013 Step by Step, 2015 Microsoft Press USA ([Get from Instructor in soft copy](#))
- Karli Watson.. et al. Beginning Visual C# 2012 Programming ([available at 10.18.3.6](#))
- Ian Griffiths et.al. Programming C# 4.0. O'Reilly Media USA. ([available at 10.18.3.6](#))
- Additional Reference can be provided during class and lab hour, at the end of each lesson

Contacts

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- Join the group mail
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