



Professional Education Programs

Course **Unified Modeling Language**

Overview

The Unified Modeling Language (UML) has proved a valuable tool for developers of object oriented systems, since it provides powerful constructs for expressing software systems at various levels of abstraction. It has reached a mature stage and enjoys the support of the Object Management Group (OMG), which has standardized it.

UML allows various system views (both static and dynamic) to be expressed and manipulated. The language is supported by a variety of tools that allow the creation, maintenance and manipulation of diagrams, as well as the generation of code from them. UML is enhanced by the Object Constraint Language, which provides for richer semantics of object diagrams.

UML is one of the fundamental technologies of the emerging Model Driven Architecture (MDA), a methodology for systems development that is based on model refinements and transformations.

Objectives

The course is designed to provide the necessary knowledge for modeling object oriented software systems. UML is the modeling language that will be used for the purpose. At the end of the course participants will be able to develop and manipulate models of software systems and use CASE tools for manipulation of the models. It is designed as an introductory course on the topic.

Who should attend

This Short Course is addressed to:

- Developers of object-oriented systems
- Methodologists

Prerequisites

Familiarity with object oriented concepts will be useful.

Duration

3 Days (18 hrs)

Dates & Hours

- December 1,2,3, 2010
- 09:30-14:30

Instructor

Dr. S. Efremidis, AIT Professor

Course outline

Lectures that build the theoretical knowledge on the topic cover 75% of the course duration. The rest 25% is devoted to acquiring hands-on experience through laboratory exercises to be carried out in AIT's software lab. Optional homework assignments and quizzes will be available to interested groups and/or individuals. The tentative schedule is as follows:

Day 1

- Object-Oriented design
- Systems design using UML
- Use-case based requirements analysis



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- System structure and behavior with UML diagrams

Day 2

- Class diagrams, activity, state diagrams
- Sequence and collaboration diagrams
- Packages and deployment diagrams

Day 3

- Tools for Engineering and Reverse Engineering code
- The Object Constraint Language
- Model Driven Architecture

Tuition Fees

[Discount Policy](#)
[Cancellation Policy](#)

Full Fee: € 700,00 (18hrs)

Program Registration Contact

<http://hermes.ait.gr/registrations/multiple.php?prog=37>

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