



Professional Education Programs

Course **Comprehensive Web Services using Java**

Overview The emergence of XML provided a framework in which software programs can interoperate across diverse platforms and business boundaries. This paved the way for a service oriented computing paradigm based on Web Services. Web Services (WS) are distributed, loosely coupled, autonomous software modules that offer specified functionality over Web protocols and they promise to efficiently facilitate Business-to-Business and Business-to-Customer interactions. Based on the Java programming language Web Service development platforms can sufficiently support Web Service creation and maintenance. The course is composed of two modules:

Module 1: “Web Service Technologies and Service Oriented Computing” (1 day)

Module 2: “Web Service Development with Java” (2 days)

Objectives Having followed this course, participants will be able to:

- Understand in depth the concept of Web Services
- Understand Service Oriented Computing
- Fluently facilitate all related technologies (SOAP, WSDL, UDDI) using Java
- Deploy Web Services considering Web Service Architectural requirements
- Comprehend how Web Service based solutions can benefit B2B and B2C solution design

It is designed as an introductory/ intermediate course on the topic.

Who should attend This Short Course is intended for:

- Developers of Web-based distributed applications involving Business-to-Business or Business-to-Customer interactions
- System developers who need to deploy Web Service Based solutions in Java
- System designers who will gain a thorough understanding on the use of Web Services and Service Oriented Computing in the B2B and B2C domains
- Technical Managers wishing to gain deep insight into cutting edge technologies such as Web Services (“Web Services” Module)

Prerequisites Programming experience with the Java programming language and XML

Duration 3 Days sessions

Instructor Dr. J. Soldatos
Dr. I. Christou

Course outline Lectures designed to build the theoretical knowledge on the topic cover (70%) of the course duration. The rest (30%) is devoted to acquiring hands-on experience through laboratory exercises to be carried out in AIT’s software lab. The opportunity for practical training is offered on a number of topics defined below. Optional homework assignments and quizzes will be available to interested groups and/or individuals.

The course contents per day follow:





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Day 1:

Web Service Basics – SOAP

- Introduction to Web Services
- Web Services and XML
- The Simple Object Access Protocol
- Java and SOAP Web Service Architectures – WSDL
- Web Service Architectures
- Overview of Web Service Development Platforms
- The Web Service Description Language
- Java and WSDL

Day 2:

Practical training

- Use of the Java APIs for SOAP Messaging Practical training
- Use of WSDL Authoring tools
- Building WSDL-enabled Web Services and Clients

Day 3:

Web Service Case Studies – UDDI

- Case studies of Java Web Services
- Web Service Orchestration
- The Universal Description, Discovery and Integration Directory
- Java and UDDI Practical training
- Setting up and populating a UDDI Directory
- Accessing Web Services registered on the UDDI

Tuition Fee

N/A

Discount Policy

Cancellation Policy

Program Registration

www.ait.edu.gr/profPrograms/reg_form/admission_form.asp

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