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**Title:** **Java development with Eclipse**

**Target audience:** Programmers, system designers

**Duration:** 3 days, 8 hours/day

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**Description** This course introduces the support of Eclipse framework for developing general purpose Java applications. Participants get an overview on the basics of Java and a knowledge on Eclipse IDE components and their use in practice. Advanced functionalities such as code refactoring and jar libraries are also discussed and participants build their own Java applications. Hand-on lab examples will illustrate basic concepts during the entire course.

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**Learning objectives** At the end of the course, students will be able to:

- Understand the basic concepts of Java programming
- Understand the services of Eclipse supporting Java development
- Use Eclipse ICE effectively

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**Outline**

- 1) Overview on basic Java concepts (class, interface, package, etc.)
- 2) Eclipse as a Java IDE
  - i) Basic services (project, compiler, console in/output)
  - ii) Elements of Java perspective
  - iii) Elements and usage of Debug perspective
- 3) Advanced services of Eclipse
  - i) refactoring, type hierarchy
  - ii) search, import/export
  - iii) jar libraries
- 4) Design of simple graphical interfaces in Eclipse
- 5) Creating a sample application

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**Prerequisites** To complete this course, you need:

- A Pentium IV, 1 GB RAM computer with Java SDK 5.0 or later
- Eclipse 3.4
- Basic programming knowledge