

# Integrated Software Systems and Testing

Course Title: Integrated Software Systems and Testing	
<b>Description</b>	<b>This course provides an in-depth exploration of the principles and practices involved in integrating and testing software systems. Students will learn about the challenges and methodologies associated with building reliable, scalable, and interoperable software systems. Through a combination of theoretical concepts and practical exercises, the course covers various integration strategies and tools, essential for modern software development and quality assurance.</b>
<b>Semester</b>	<b>Spring 2024</b>
<b>Neptun code</b>	<b>GEIAL51C-Ma</b>
<b>Instructor</b>	<b>Dr. Károly Nehéz, assoc. prof.</b>
<b>Credit Hours</b>	<b>2+2</b>
<b>Attendance Requirement</b>	<b>Students are required to attend at least 60% of the scheduled classes to be eligible for the course signature.</b>
<b>Final presentation</b>	<b>At the end of the semester, students will present their projects to the class. A complete project submission includes source code, documentation, test cases.</b>
<b>Examination</b>	<b>The examination is written, and students will receive some theoretical questions and one practical task from the studied material.</b>

- [Lecture notes](#)
- [Tasks](#)
- [Examination questions](#)

## Books and other readings

- [SOA Based Enterprise Integration](#)
- <http://www.eaipatterns.com/>

## Tutorials

### Basic Java - programming tutorials

- Oracle's Java tutorial: <http://docs.oracle.com/javase/tutorial/java/index.html>
  - Basics: [quick\\_java\\_programming\\_tutorial\\_via\\_exercises.doc](#)
  - Interfaces: [java interfaces](#)
  - Inheritance: [java inheritance](#)
  - Interfaces vs. Abstract classes: <http://tutorials.jenkov.com/java/interfaces-vs-abstract-classes.html>
  - Annotations: <http://tutorials.jenkov.com/java/annotations.html>

### Jakarta Enterprise - specification tutorial

- <http://www.mastertheboss.com/> - JBoss general tutorials
- JBoss ESB tutorial <http://www.mastertheboss.com/jboss-esb/78-jboss-esb.html>
- JBoss ESB beginners guide [jboss\\_esb\\_beginners\\_guide.pdf](#)

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Last update: **2024/03/04 09:33**

