

Java OOP

Course Introduction



SoftUni Team

Technical Trainers



SoftUni



Software University

<https://softuni.bg/>

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SoftUni Diamond Partners

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Решения за твоето утре



 **DRAFT
KINGS**



**SOFTWARE
GROUP**





Course Objectives

Why OOP?



- **Object-oriented programming** is an important paradigm
- Anyone involved in software development should be familiar with **OOP** and **OO** modelling
- All modern languages are either object-oriented or support classes and objects
 - Modern frameworks, libraries and APIs are object-oriented
- OOP is a **basic requirement** for starting a job as developer

- 
- Working with Abstraction
 - Encapsulation
 - Inheritance
 - Interfaces and Abstraction
 - Polymorphism
 - SOLID
 - Reflection and Annotations
 - Workshop: Exceptions and Error Handling
 - Unit Testing
 - Test Driven Development
 - Design Patterns



The Trainers Team

- Java Developer at Virtual Racing School
- Experience with Java, C++, C#
- Technical Trainer @ SoftUni
- Interested in Astrophysics



- Java Developer @ SAP
- Ex-Competitor with Mathematics
- Technical Trainer @ SoftUni
- Programming Basics Team Lead
- Content Development Team Lead @ SoftUni





Course Organization

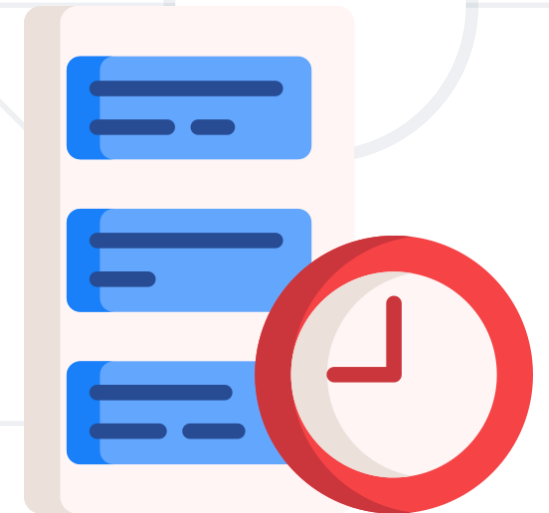
Course Information

- 7 weeks / 4 times a week
- 15 Credits
- Time frame
 - 28 June 2021 – 15 August 2021
- Exams
 - Theoretical: 15 August 2021
 - Practical: 15 August 2021
 - Theoretical (Retake): 22 August 2021
 - Practical (Retake): 22 August 2021



Homework Assignments & Exercises

- Your **homework** is mainly work in class
 - Lesson days → slides + live demos + exercises
 - Exercise days → only exercises
- How to submit your homework?
 - Submitted in the **judge system**
- Do your homework when it's due
 - Assignments pile up quickly







Practical Exam

- 2 practical problem for 4 hours
 - Create a **simple project**
 - Following the OOP principles
 - Implement functionality based on the description
 - **Test** a provided **class**
- Automated judge system with **real-time feedback**
 - Upload a zip project to the judge system



Theoretical Exam

- 30 minutes
 - **Multiple-choice** with 1 or more correct answer
 - English
 - Automated quiz system
- Available **online** on the day of **the practical** exam
- You can submit your answers just one time





Resources

Course Web Site, Forum and FB Group

- Official web site:

<https://softuni.bg/trainings/3346/java-oop-june-2021>

- Official discussion forum:

<https://softuni.bg/forum/categories/69/module-java-advanced>

- Official Facebook groups:

<https://www.facebook.com/groups/javaadvancedmay2021>

- Community Facebook group:

<https://www.facebook.com/groups/SoftUniJavaCommunity/>



- The course assignments require to **search in Internet**
 - This is an important part of the learning process
 - Some exercises intentionally have no hints
- Learn to find solutions!
 - Software development includes **everyday searching and learning**
 - No excuses, just **learn to study!**
 - Developers learn new technologies, tools, languages every day!



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity

- Software University Forums

- forum.softuni.bg



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