

Java OOP

Course Introduction



SoftUni Team
Technical Trainers



SoftUni



Software University

<https://softuni.bg/>

sli.do

#java-advanced

SoftUni Diamond Partners



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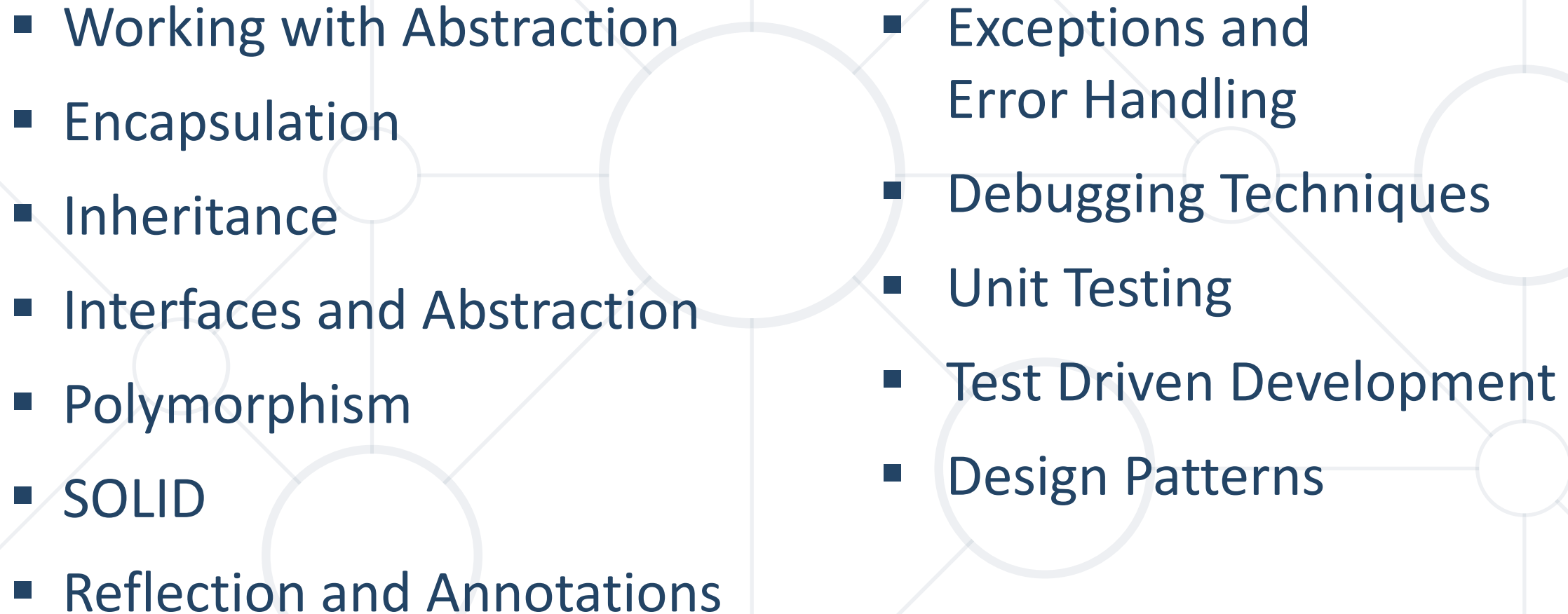


Course Objectives

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
 - Exceptions and Error Handling
 - Debugging Techniques
 - Unit Testing
 - Test Driven Development
 - Design Patterns

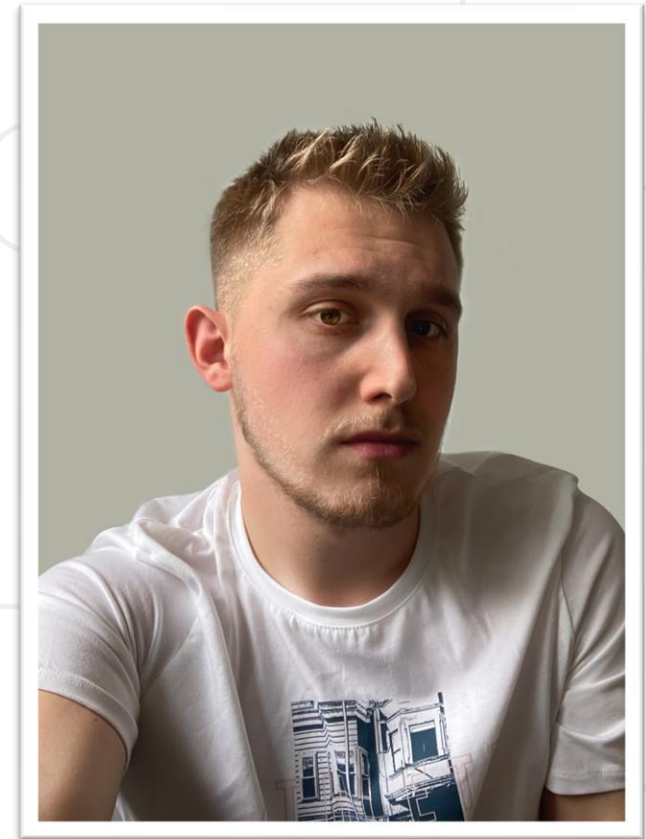


The Trainers Team

- Java Developer @VMware
- Experience with Java, C++, C#
- Technical Trainer @SoftUni
- Interested in Astrophysics



- Java Web Developer @ **Tide**
- Programming for **4** years and has worked with **Java**, **C#** and **JavaScript**
- Technical Trainer @ **SoftUni**
- Has experience in the development of private **Java-based server** applications
- Interested in **Spring** and the development of **web-based applications**





Course Organization

Java OOP – Timeline

24-Jun-2024

10-Aug-2024

14-Aug-2024

Java OOP

7 weeks * 4 times / week
15 credits

Start: 24-Jun-2024
Theoretical exam: 10-Aug-2024
Final exam: 10-Aug-2024

Re-Take Exams

Java OOP
14-Aug-2024

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 problems 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

- 20 questions for 30 minutes
 - **Multiple-choice** with 1 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 and FB Group

- Official web site:

<https://softuni.bg/trainings/4375/java-oop-june-2024>

- Official Facebook groups:

<https://www.facebook.com/groups/JavaAdvancedJune2024>

- Community Facebook group:

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



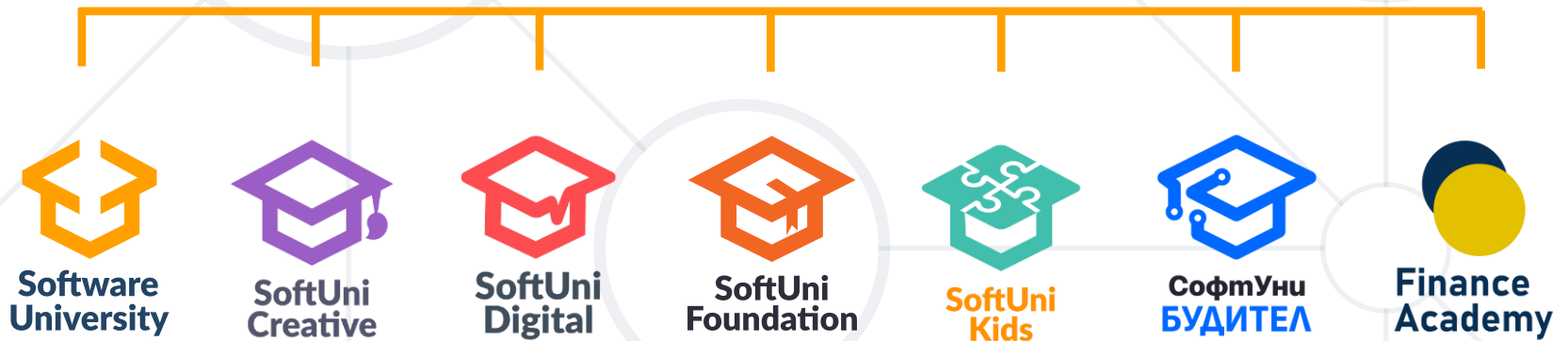
- The course assignments require to **search in Internet**
 - This is an important part of the learning process
 - Some exercises intentionally have no hints
- Learn to find solutions!
 - Software development includes **everyday searching and learning**
 - No excuses, just **learn to study!**
 - Developers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



Questions?



SoftUni



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

- softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity



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