Course title: Object-Oriented Programming Java
Course code: 63050
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 8
Goal: Enabling students to design and develop applications with graphical user interface in Java, using the principles of object-oriented programming.
Outcome: Students should be able to successfully use development environment for Java programming language in the process of designing and maintaining complex software applications with graphical user interface.
Contents of the course
Theoretical instruction
1. Threads
2. Generic types
3. Collections
4. Network programming
5. Event processing
6. Working with windows, graphical objects and text
7. AWT control objects, schedulers and menus
8. Swing graphical library
9. Concurrent programming, NIO package, reflection, RMI
10.Java Beans, servlets
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Threads
2. Generic types
3. Collections
4. Network programming
5. GUI, Swing library, event processing

6. Working with images	
7. Java Beans	
Textbooks and References	
1. H. Schildt, Java JDK 7: The Complete Reference	
2. L. Kraus, Solved Problems in Java JSE 8 programming language, Akademska misao, Beograd, 2015.	
Number of active classes (weekly)	
Lectures: 4	
Practical classes: 2	
Other types of classes:	
Grading (maximum number of points: 100)	
Pre-exam obligations: Points	
Activities during lectures:	
Activities on practical exercises:	
Seminary work:	
Colloquium: 30	
Final exam: Points	
Written exam: 70	
Oral exam:	
Lecturer	
Nenad Teofilović, MSc	
Associate	