SYLLABUS

1. Course title:

Object Oriented Programming

2. Code:

RI202

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

[RI101] Introduction to Programming

7. Class restrictions:

8. Duration / semester:

1 3

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	1
9.3. Laboratory/Practice classes:	1

10. Faculty:

Faculty of Electrical Engineering

11. Department/study program:

Electrical Engineering and Computer Science

12. Lecturer:

Ph.D. Amer Hasanović, full professor

13. Lecturer's e-mail:

amer.hasanovic@untz.ba

14. Web site:

15. Course aims:

After completing the course the students will have practical knowledge of the C++ programming language, including the important parts of the standard library, and have the ability to utilise object oriented techniques to create simple programs.

16. Learning outcomes:

After completing the course the students will have practical knowledge of the C++ programming language, including the important parts of the standard library, and have the ability to utilise object oriented techniques to create simple programs.

17. Course content:

C++ basics. Standard library: containers, iterators and algorithms. Template functions. References. Pointers. Memory management. Class and structure types (members, methods, encapsulation). Template class types. Inheritance and dynamic binding.

18. Learning methods:

Lectures, auditive exercises, individual work of students on homeworks and projects.

19. Assessment methods:

The final grade is based on the continuous assessments, which are performed throughout the semester with quizzes and a midterm test, and the final exam, which includes the questions related to the entire content of the course, focusing on the areas that are not covered by the midterm test.

20. Assessment components:

Pre-exam activities: 70%
Final exam: 30%
The final grade is formed in accordance with the Studying regulations based on the points obtained through continuous assessment during the semester (homeworks, tests) and the final exam.

21. Required reading list:

A. Koenig and B. E. Moo, Accelerated C++ Practical Programming by Example, Addison Wesley, 2000.
B.Stroustrup, The C++ Programing Language, Addison Wesley, 1997.
S. B. Lippman, J. Lajoie, B. E. Moo, C++ Primer, Addison Wesley, 2005.

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session:

04.04.2016