SYLLABUS

1. Course title:

RISK ASSESSMENT AND PLANNING

2. Code:

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

7. Class restrictions:

8. Duration / semester:

1 8

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	3
9.3. Laboratory/Practice classes:	0

10. Faculty:

Faculty of Technology

11. Department/study program:

Environmental Protection Engineering

12. Lecturer:

Franc Andrejaš, associate professor

13. Lecturer's e-mail:

franc.andrejas@untz.ba

14. Web site:

www.tf.untz.ba

15. Course aims:

The aim of the course is to give students the knowledge and practical experience related to technology of development of risk assessment, analysis of adverse events during operation, the methodology of risk analysis and planning security. During the course, students will be able to acquire specific knowledge on the importance of hazard assessment as a fundamental document in the field of safety and health at work.

16. Learning outcomes:

The knowledge gained during the subject lectures enables students to actively engage in a hazard assessment team at authorized workplace institutions. In addition, students will have the competence to assess the acceptability and applicability of the assessed dangers in the implementation of safety and health protection, and to improve occupational safety and preventive action in order to eliminate or reduce injuries and occupational illnesses at work.

17. Course content:

The study of risk from a technical aspect. Methodology and methods of risk research. Dangers, risks and probabilities. The basic aspects of risk and hazards. Risk perception. Risk and Value. Risk communication. Uncertainty. Vagueness. Identification. Evaluation. Valorisation and risk management. Analysis of the current state of safety and health. Analysis of working and auxiliary rooms and space. Analysis of basic and special rules on occupational safety. Workplace Analysis. Identification of danger, harm and loads. Workplace analysis methods. The scheme for the analysis workplace. Analysis of injuries at work. Investigating sources and causes of injuries at work. Forms to collect data on the current situation. Creating a hazard assessment. Danger assessment - concepts, importance. Terminology and basic concepts. Rulebook on hazard assessment making. Hazard assessment content. A course of risk assessment.

18. Learning methods:

Teaching methods are based on multimedia lectures and auditory exercises. Lectures provide the framework problems and analyze the facts and theoretical approaches to the problem, while the exercises are conducted in an interactive form, and through practical examples the basic parts of the analysis and elaboration of the elaborate are processed.

19. Assessment methods:

Throughout the course, students are required to regularly attend lectures and exercises. Students' attendance records will be regularly kept. On a special form, the subject teacher will continuously monitor the presence of each student. During the semester, the student can be absent with a maximum of three lectures and three exercises, being obliged to bring proof of justification of absence (medical certificate, etc.). In the case of more unexcused absences, the student loses the right to the signature of the teacher.

• TESTS - Two tests per semester for the oral part of the exam and two tests for the written part of the exam, ie a total of 4 tests. Each test for the oral part of the exam, consists of 20 short theoretical questions related to the previously processed material and carries 15 points (for a passing grade, one should achieve a minimum of 8 points). Each test for the written part of the exam, consists of four assignments related to the previously processed material and carries 15 points (for a passing grade, one should achieve a minimum of 8 points). Tests are usually conducted after every six weeks of lectures, whereby the subject teacher will announce them to the students at least two weeks before each test.

• FINAL PART OF THE EXAM - Students who have collected the required number of points by all criteria (54 points), have the option of additional (verbally or in writing exam) for a higher final grade. The maximum number of points that can be obtained on the final exam is 30. The minimum number of points, which must be reached on the final exam is 18.

All the students who did not meet the conditions in one of the tests or who are not satisfied with the grade, but who have completed all other obligations of the course (have the signature of the subject teacher in the index) take the final exam. The student can not get a final grade if he has not passed all the tests.

• SEMINAR WORK OF STUDENTS: student has the opportunity to do one seminar work. Successfully prepared and verbaly performed seminar work is evaluated with a maximum of 5 points (minimum 3 points), which are added to the total number of points achieved on other bases, in the formation of the final grade.

20. Assessment components:

The final grade is based on the total number of points obtained through prerequisites and the final exam, according to the quality of the acquired knowledge and skills. It has a maximum of 100 points, according to the following scale:
Regularity of teaching attendance (lectures + exercises): 5 points
Tests (theory): 30 points
Tests (assignments): 30 points
Seminar paper: 5 points
Final exam: 30 points

21. Required reading list:

Gruber H, Mierdel B (1997). Priručnik za procjenu opasnosti, Bochum: Verlag Technik & Infor¬mation,
Procjena opasnosti - dokumentacija po metodi AUVA I WKÖ, Biblioteka zaštita na radu IPROZ, Zagreb, (1997).

22. Web sources:

23. Applicable starting from the academic year:

2015/2016

24. Adopted in the Faculty/Academy session: