

SYLLABUS

1. Course title:

ALARM SYSTEMS

2. Code:

3. Cycle of study:

4. ECTS credits:

5. Type of course:

 Mandatory Elective

6. Prerequisites:

7. Class restrictions:

8. Duration / semester:

9. Weekly contact hours:

9.1. Lectures:

2

9.2. Seminars:

0

9.3. Laboratory/Practice classes:

1

10. Faculty:

Faculty of Technology

11. Department/study program:

Environmental Protection Engineering

12. Lecturer:

13. Lecturer's e-mail:

14. Web site:

www.tf.untz.ba

15. Course aims:

To introduce students to the basic principles of protection of property and persons using electronic protection systems - alarm systems. In addition, introduce students with basic types of alarm systems, the role of work safety engineers in threat assessment, ie. risk assessment, design of security analysis, defining project design, design, implementation, attestation, and use of these systems to protect property and persons, industrial, and other subjects.

16. Learning outcomes:

Basic knowledge of basic principles of protection of property and persons through electronic systems of technical protection, their application in practice and the influence of the system on risk reduction and insurance premiums. Students are familiar with basic alarm systems, and using these systems to protect property and people. As occupational safety engineers, they can take part in threat assessment, ie. risk assessment, preparation of security studies, definition of a project assignment, and so on.

17. Course content:

In general about technical protection systems

- systems for the physical prevention of unauthorized access to the facility
- electronic security systems
- alarm systems - technical protection systems with an alert at an alerting center which, in case of an alert, takes pre-defined measures. Basic parts of the system - central unit, detectors, power supply, lines.
- types of alarm systems
- fire alarm systems
- anti-burglary systems
- passage control systems
- video surveillance systems
- legislation.

18. Learning methods:

Teaching is performed through auditorial lectures that are followed by slides and laboratory exercises with interactive participation of students. The curriculum is realized through lectures, seminars and laboratory exercises.

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 throughout the semester, for the oral part of the exam. 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). 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.
- LABORATORY EXERCISES: the student is obliged to do all laboratory exercises, and based on activity in exercises can achieve a maximum of 25 points (for a passing grade should achieve a minimum of 12 points).
- 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 verbally performed seminar work is evaluated with a maximum of 10 points (minimum 6 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

Activity in laboratory exercises: 25 points

Tests (theory): 30 points

Seminar paper: 10 points

Final exam: 30 points

21. Required reading list:

Husar I (1998). Alarmni sustavi. Hrvatski ceh zaštitara, Zagreb.

Šmejkal Z, (1991). Uređaji, oprema i sredstva za gašenje i zaštitu od požara. Kemija u industriji, Zagreb.

22. Web sources:**23. Applicable starting from the academic year:**

2015/2016

24. Adopted in the Faculty/Academy session: