Faculty of Architecture
Department of Construction of Buildings and Structures
Professional Area: Architecture, Civil Engineering and Geodesy
Major: Fire and Emergency Safety of Buildings and Structures
Educational and Qualification Degree: Master

1. Course unit title: Design and operation of fire alarm systems
2. Course unit code: SEC 3090
3. Type of the course unit: compulsory
4. Cycle: Master
5. Year of study when the component is delivered: first
6. **Semester:** second
7. **Number of ECTS credits allocated:** 9
8. Name of lecturer(s): Prof. Eng. Stefan Terziev, PhD
9. Learning outcomes: The aim of the course is to acquaint students with the causes
for the occurrence of fires in electrical systems, anti-fire and explosion protection of electrical networks and systems in design, installation and operation, prevention of fires, defensive earthing and bonding, lightning protection, and static electricity discharge protection.
10. Mode of delivery: face-to-face
11. Prerequisites and co-requisites: knowledge acquired in the courses in Applied Electrical Engineering, Production and Fire Protection Automation
12. Course content: Causes for the occurrence of fires and characteristics of fire-fighting electrical appliances. Fire protection of electrical networks in design. Fire protection of electrical heating devices.
13. Recommended or required reading and other learning resources/tools:
- Черкасов, В. Н., Улященко, В. Е., „Пожарна профилактика на електроинсталации", Т., 1974
- „Противопожарни строително – технически норми", Наредба Із – 1971/2009.
- Терзиев, С. Н., „Електрически машини" 1, 2 част, ТУ – Варна 2001 г.

14. Planned learning activities and teaching methods: lectures, contact hours, course assignment, placement, self-study
15. Assessment methods and criteria: The following elements are included in the assessment of the student's individual performance: 10% attendance, 1 test and / or development of a paper on an assigned topic (in case of very good performance - mark above 4.50, the student could exempt from the final exam) - 20%, final exam (test) - 70%.
16. Language of instruction: Bulgarian
17. Placement: yes