

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:** Fire and emergency safety of buildings and structures
- 2. Course unit code:** TEC3086
- 3. Type of the course unit:** compulsory
- 4. Cycle:** Master
- 5. Year of study when the component is delivered:** first
- 6. Semester:** first
- 7. Number of ECTS credits allocated:** 4,5
- 8. Name of lecturer(s):** Prof. Eng. Stefan Terziev, PhD
- 9. Learning outcomes:** The aim of the course is to introduce students to the fire safety of buildings and structures, to prevent and limit the development of fires in buildings and structures. Particularly important for the training is the introduction in the construction practice of designs with technical solutions for fire safety, fire protection of buildings and structures for different purposes, whose requirements have to be observed by designers, specialists and contractors, if necessary.
- 10. Mode of delivery:** face-to-face
- 11. Prerequisites and co-requisites:** Students are required to possess knowledge from the courses in Fire Safety of Building and Structures, Fire Safety of Heating and Ventilation Equipment, Fire and Explosion Protection of Electrical Installations and Appliances and Hydraulic and Fire Safety Water Supply.
- 12. Course content:** Fire safety in construction. Combustibility and fire resistance of buildings and structures. Technical measures for fire protection. Firewalls. Fire barriers /walls/. Fire protection zones and antechambers. External stairs. Evacuation of people from buildings and structures. Transport buildings and structures. Buildings and structures of the chemical industry. Buildings and structures for mass gathering of people. Electrical installations and equipment in buildings.
- 13. Recommended or required reading and other learning resources/tools:**
 1. . - , 1987
 2. - , I - 1971/2009
 3. , ., 1980

14. Planned learning activities and teaching methods: lectures, contact hours, 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: none