

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 extinguishing substances
2. **Course unit code:** MAS 3002
3. **Type of the course unit** compulsory
4. **Cycle:** specializing
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):** Assoc. Prof. Eng. Simeon Radulov, PhD
9. **Learning outcomes:** The course aims at providing the students with in-depth, mostly theoretical knowledge about different types of fire extinguishing substances, their physicochemical properties, the way of obtaining and testing them, as well as their practical use.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** Knowledge of physics and chemistry acquired during the bachelor's degree programme is required.
12. **Course content (annotation):** In the envisaged volume of lectures and seminars the main highlights are: Precision in choosing the type of fire extinguishing substances, assessment of their influence on the basic parameters of the development of dangerous factors in fires and conducting of studies of new fire extinguishing substances.
13. **Recommended or required reading and other learning resources/tools:**
 - „Fire extinguishing substances“ , 1997
 - „Fire extinguishing substances“ , 1983
 - „Fire extinguishing substances“ , 1976
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