**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: Investigation and analysis of fires and accidents**
2. **Course unit code:** TEC 3085
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: 3**
8. **Name of lecturer(s):** Assoc. Prof. Simeon Radulov, PhD
9. **Learning outcomes:** To equip students with knowledge about the regularities in the development of fires, basic parameters and the dynamics of their changes in order to acquire knowledge and skills for their evaluation and practical application.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** The study of the discipline is based on a number of scientific general technical and special disciplines and is combined with those laid down/ incorporated in the syllabus of the specialty
12. **Course content:** Classification of fires. Basic parameters of fire development: fire load, burn rate, propagation rate. Dynamics of the development of forest fires. Influence of wind speed, plant density, humidity of the forestry and slope of the terrain.
13. **Recommended or required reading and other learning resources/tools:**


- Добрева Ц., В. Чочев, Н. Попова, Развитие и прекратяване на пожарите, Сф., 2003
- Радулов ., Справочник по противопожарна тактика, РИО- ВИ- МВР, Сф., 1987
- Чочев В., Оперативна тактика за гасене на пожари, Огнеборец, С., 2003
- Абдурагимов Й.и др., Процесы горения, ВИПТШ МВД СССР, М., 1984
- Димитров С., Димо и взривозащита на сградите при пожар, Огнеборец, С., 2001


14. **Planned learning activities and teaching methods**: lectures, contact hours, self-study
15. **Assessment methods and criteria:** final exam
16. **Language of instruction:** Bulgarian
17. **Placement:** none