

**Faculty of Law****Department:** Security and Safety**Professional Area:** National Security**Major:** National Security Protection - Protection against Accidents and Disasters**Educational-and-qualification Degree:** Bachelor**COURSE DESCRIPTION**

1. Course unit title: **Risk Assessment**
2. Course unit code: SEC 1065
3. Type of course unit: compulsory
4. Level of course unit: Bachelor
5. Year of study: fourth
6. Semester: seventh
7. Number of ECTS credits allocated: 6
8. Name of lecturer: Prof. D.Sc. Vladimir Tomov, Eng.
9. Learning outcomes of the course unit: The lectures aim to provide knowledge of the principles and approaches to analysis and risk assessment; the seminars – to teach skills in using the methods of risk assessment.
10. Mode of delivery: face-to-face
11. Prerequisites and co-requisites: the discipline requires completion of the discipline “Theory of Risk and Safety”.
12. Course contents: statistical analysis; logical analysis; energy analysis; deviation analysis, semiotic analysis; checklists and questionnaires; preliminary hazard analysis; hazard scenarios; tree of events; analysis of the nature and consequences of failures; fault tree; hazard analysis and performance; analysis of cause and effect, analysis of the reliability of human-and-machine systems; differential analysis; expert assessments.
13. Recommended and/ or required reading  
*Main reading:*
  - Христов, П. Метатеория на риска. Варна, Варненски свободен университет, 2011.
  - Владимиров, Л. Теория на риска. Част 1. Русе, Издателски център на Русенски университет, 2011. 170 с.
  - Владимиров, Л. Оценка на риска за възникване на критични аварийни ситуации. Русе, Медиатех, 2011. 190 с.
  - Владимиров, Л. Ръководство за упражнения по Теория на риска. Русе, Издателски център на Русенски университет, 2010. 54 с.*Additional reading:*
  - Владимиров, Л. Рискметрия в екологичната сигурност. Варна, Варненски свободен университет, 2009. 279 с.
14. Planned learning activities and teaching methods: Lectures, seminars, contact hours
15. Assessment methods and criteria: The main form of monitoring and assessment are the semester exams. The exam is written and oral and includes two theoretical questions of the presented topics and practical question directly related to the theoretical material. The level of performance and the quality of the coursework is checked.
16. Language of instruction: Bulgarian.
17. Work placement: none