DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	**Quality and Safety Management in Telematics**				
Study programme	**Professional undergraduate study Information Science**				
Status of a course	Elective				
Year of study	2	**Semester (Winter/Summer)**	S	**ECTS credits**	5

Goals of a course

Adopt basic terminology of quality and safety in telematics systems and apply methods and tools for quality management.

Conditions for enrolling course

No conditions

Learning outcomes on a level of a study programme which includes course

Outcome 11: Apply mathematical and statistical methods in information science.
Outcome 12: Apply engineering methods and principles in information science.

Expected learning outcomes on a level of a course

1. Understand the principles of complete quality in general in business operations
2. Explain the meaning of the telematics system quality constituents
3. Suggest and discuss quality standards relevant to a particular telematics system part
4. Apply quality management methods and tools
5. Create a risk assessment model for a telematics system

Content of a course

Concept and meaning of quality. Principles and methods of quality management. Methods of planning and ensuring quality. International standards for quality system. Total quality. Quality management for telematics system. Relevant standards for all component of telematics systems' architecture. Safety of information system. Safety of technical system. Evaluation of functionality, reliability and safety of telematics system's components. Safety standards of information and technical components of telematics system. Resistance and firmness of telematics system. Risk analysis and projecting telematics system.

Teaching modes	☒ lectures ☒ individual assignments ☐ auditory exercises ☐ multimedia and network ☒ seminars and workshops ☐ laboratory ☐ distance learning ☐ supervisor's work ☐ field classes ☐ other _____

Grading, evaluation and monitoring of students' work continuously during lectures and exams

Grading is based upon evaluation course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.