



## RTU Course "Air Accident Investigation"

15E01 Aeronautikas tehnoloģiju katedra

### General data

Code	TAE700
Course title	Air Accident Investigation
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Post-graduate Studies
Course type	Professional
Field of study	Transport
Responsible instructor	Šestakovs Vladimirs
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Language of instruction	LV, EN, RU
Possibility of distance learning	Not planned
Abstract	Theoretical material includes indicators, methods and means of safety . Laboratory research are carried out on the basis of means of objective control. Flight safety indicators are calculated during practical training.
Goals and objectives of the course in terms of competences and skills	To obtain skills in carrying out aviation accident causes analysis and in working out preventive measures. To develop skills of aviation accidents investigation and documentation registration.
Structure and tasks of independent studies	Study of literature, homeworks on flight safety in the global aviation and LR CAA flight normative documents. Laboratory work report and presentation preparation.
Recommended literature	1. Vladimirs Šestakovs. Lidojumu drošība. Transports, 1992. -250.lpp (krievu valodā). 2. Vladimirs Šestakovs. Inženieru organizatorisko pasākumu pamati lidojumu drošības nodrošinājumam. Transports, 1991. - 280.lpp (krievu valodā). 3. Clinton V. Oster, John S. Strong, C. Kurt Zorn. Why Airplanes Crash: Aviation Safety in a Changing World. Oxford, 1992.- 297p. 4. David Gero. Aviation Disasters: The World's Major Civil Airliner Crashes Since (Hardcover) The History Press, 4 edition (December 1, 2006).
Course prerequisites	Aircraft aerodynamics and design.

### Course outline

Theme	Hours
Aviation accidents classification and distribution according to their causes.	2
Aviation accident investigations, sequence and presentation of documentation.	5
Hardware applied and technical resources.	5
Aviation accident database.	2
Accident investigation, regulatory documents and organizational structures in the world.	2
Practical work.	8
Laboratory work.	8

### Learning outcomes and assessment

Learning outcomes	Assessment methods
Able to describe and make flight data analysis and processing.	Practical work, laboratory work, homework, exam. Criteria: Knowledge of accident investigation regulatory documents. Able to carry out flight information analysis.
To be able to use means of accident investigation.	Is proficient in documentation and applied means in the field of investigation of aviation accidents.

### Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	2.0	3.0	1.0	0.5	0.5		*	