



## RTU Course "Ergonomics and labour protection at the aviation transport"

15E04 Transporta sistēmu un loģistikas katedra

### General data

Code	TAE513
Course title	Ergonomics and labour protection at the aviation transport
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Undergraduate 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	The rules of ergonomics, the object and subject of study of the problem. Methods and means adopted in ergonomics. Ergonomics system. Jobs ergonomic performance. Ergonomics as a means against industrial accidents. Factory hygiene and safety organization at the aviation companies.
Goals and objectives of the course in terms of competences and skills	To acquire ergonomic requirements for operators, tools, workplace that regulate safety precautions in aircraft and technical maintenance site.
Structure and tasks of independent studies	Study of literature and internet. Work with standard documents in the field of work protection. Preparation of laboratory works reports and presentation.
Recommended literature	<ol style="list-style-type: none"> <li>1. Šestakovs V. Metodiskie norādījumi laboratorijas darbu izpildei mācību priekšmetā "Ergonomika un darba aizsardzība gaisa transportā", RTU Izdevniecība, Rīga, 2004.</li> <li>2. M.J. Kroes Aircraft Maintenance &amp; Repair Sixth Edition, Clenceo, New York, 1993, 650 lpp</li> <li>3. General Kit, MTMO21, 5 books, 2002, 700 lpp.</li> <li>4. Airframe Kit, MTMO22, 3 books, 750 lpp.</li> <li>5. Poverplant Kit, MTMO23, 3 books, 2002, 625 lpp.</li> <li>6. www.caa.lv</li> <li>7. www.aaib.dtlr.gov.uk</li> <li>8. www.caa.lv, <a href="http://hfskyway.faa.go">http://hfskyway.faa.go</a></li> </ol>
Course prerequisites	Aircraft aerodynamics, design and operation.

### Course outline

Theme	Hours
Organization of labour protection at the aviation companies. Ergonomics systems.	2
Production traumatism. Ergonomics as a means against production accidents.	4
Ergonomic requirements in aircraft and technical maintenance site.	4
Protection against production risk factors.	4
Fire Safety.	2
Practical work.	8
Laboratory work.	8

### Learning outcomes and assessment

Learning outcomes	Assessment methods
A student is able to describe and carry out production traumatisms information analysis and processing.	Practical and laboratory works, tests, exam.
A student is able to identify and to calculate safety performance.	Practical and laboratory works, tests, exam. Criteria: ability to solve a problem of manufacturing work safety, to formulate ergonomic requirements for operators, tools, work place, that regulate safety precautions in aircraft and technical maintenance site.

### 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		*	