



RTU Course "Organization and Ensuring of Aircraft Operation"

15E01 Aeronautikas tehnoloģiju katedra

General data

Code	TAE203
Course title	Organization and Ensuring of Aircraft Operation
Course status in the programme	Compulsory/Courses of Limited Choice; Courses of Free Choice
Course level	Undergraduate Studies
Course type	Professional
Field of study	Transport
Responsible instructor	Kleinhofs Mārtiņš
Academic staff	Blumbergs Ilmārs
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	A role and place of civil aviation in a joint transport system of the country, as well as the structure of aviation transport system for civil aviation. Classification and certification in the aircraft industry, organization and ensuring of flights in civil aviation, preparation of aircraft for flights and operation of aircraft in special conditions and cases will be discussed. Such principles of management of maintenance of aircraft in an aviation company will be covered: organization of work, rules, standards and procedures, program of maintenance and repair.
Goals and objectives of the course in terms of competences and skills	Aim of the subject is to acquire knowledge about the technical maintenance management, maintenance organization, regulations, standards and procedures in civil aviation.
Structure and tasks of independent studies	Independent studies include individual research assignment for a work with the literature and internet, work with international organizations regulating normative documents and preparation of presentation.
Recommended literature	1. ICAO, EASA dokumenti. PART-66, PART-145, PART-147. www.easa.com 2. LR aviācijas depart. un CAA dokumenti tehniskās ekspluatācijas nodrošināšanai: www.caa.lv 3. FAR Handbook for Aviation Maintenance Technicians. Englewood: Jeppesen Sanderson, Inc. 2002. 4. Kroes M.I. Aircraft Maintenance and Repair. Sixth Edition, New York, 2002, 650p. 5. Airframe Kit, MTMO22, 3 books, 750p. 6. Powerplant Kit, MTMO23, 3 books, 2002, 625p.
Course prerequisites	Aviation legislation, Civil aircraft and engine.

Course outline

Theme	Hours
Operation in flight and maintenance personnel education. Maintenance service management.	4
Licensed aviation organizations (airports, aircraft dispatchers etc.).	4
Maintenance documentation: PART-M, 145, 66. Civil aviation agency functions and documentation.	4
Maintenance procedures and documentation.	4
Organization and ensuring of aircraft operation in flight. Commercial service.	4
Aircraft operation in flight specific environment.	4
Practical work.	8

Learning outcomes and assessment

Learning outcomes	Assessment methods
A student knows the PART-M, 145, 66 and understands technical maintenance documentation in detail.	Practical works, testing and examination.
A student knows aircraft flight procedures and operations in the specific environment conditions.	Practical works, testing and examination.
A student is capable of organizing maintenance service of aircraft and using technical means.	Practical works, testing and examination.
A student knows aircraft flight operation and flight operations in the specific environment.	Home task, examination.

Study subject structure

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