



RTU Course "Maintenance of Aircraft Electronic Systems"

15E02 Avionikas katedra

General data

Code	TAA307
Course title	Maintenance of Aircraft Electronic Systems
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Undergraduate Studies
Course type	Professional
Field of study	Transport
Responsible instructor	Trifonovs-Bogdanovs Pjotrs
Volume of the course: parts and credits points	1 part, 3.0 Credit Points, 4.5 ECTS credits
Language of instruction	LV, EN, RU
Possibility of distance learning	Not planned
Abstract	Air transport technical operating system composition and structure part tasks. Electronic systems maintenance technology and technical support.
Goals and objectives of the course in terms of competences and skills	To acquire the electronic system maintenance methods and technologies. Build skills in the use of aviation electronic apparatus and systems maintenance techniques and technologies.
Structure and tasks of independent studies	Independently prepare presentations on the topic - various aircraft avionic systems maintenance techniques and technologies. Operating modes. Operating bases. Working with the special literature. Aviation Institute's specialized lecture hall
Recommended literature	1. JAR-145, Maintenance Organization Exposition. 2. Wasson J. Avionic Systems. Operation and maintenance. Colorado. Jeppesen. Sanderson. 1994g. 318 lpp. 3. Moir I., Seabridge A., Aircraft Systems. Wiley-Blackwell. 2008. 546 lpp. 4. Henderson M. Aircraft instruments. Avionics for technicians. Colorado. Jeppesen Sanderson. 2001g. 212 lpp.
Course prerequisites	Aviation devices and systems, aircraft electrified systems, aircraft power supply system.

Course outline

Theme	Hours
Aviation transport technical operation system.	4
Aircraft electronic systems maintenance methods.	6
Electronic systems maintenance organization.	6
Maintenance of computers. Electronic library system.	4
Aircraft electronic systems for technical maintenance and engineering support.	18
Aircraft electronic systems for control of technical parameters.	10

Learning outcomes and assessment

Learning outcomes	Assessment methods
The student knows various technical systems operated by airlines.	Lab. works: Technical operating system, exam.
The student knows the aircraft electronic systems maintenance methods.	Lab. works: Maintenance methods, exam.
The student understands technology support of the maintenance of electronic systems.	Independent work, seminars, exam.
The student understands technical support of the maintenance of electronic systems.	Independent work, seminars, exam.

Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	3.0	4.5	2.0	0.5	0.5		*	