



## RTU Course "Practical Placement"

15E02 Avionikas katedra

### General data

Code	TAA010
Course title	Practical Placement
Course status in the programme	Internship
Course level	Undergraduate Studies
Course type	Professional
Field of study	Transport
Responsible instructor	Trifonovs-Bogdanovs Pjotrs
Academic staff	Smirnovs Igors Zarjanskis Oļegs
Volume of the course: parts and credits points	1 part, 26.0 Credit Points, 39.0 ECTS credits
Possibility of distance learning	Not planned
Abstract	Air transport operating maintenance techniques. Aircraft avionics complex composition and functioning. Aggregate removal and installation. Unit failure detection methods and techniques. Maintenance procedures.
Goals and objectives of the course in terms of competences and skills	To acquire electronic system fault detection methods and technologies. To build skills to implement maintenance procedure.
Structure and tasks of independent studies	To independently define defective aircraft avionics system aggregates. Independent implementation of maintenance procedures. Working with special literature. Classes in Aviation institute specialized room. Training at airlines and airfield.
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. Avioniks for technicians. Colorado. Jeppesen Sanderson. 2001g. 212 lpp.
Course prerequisites	Aviation devices and systems, aircraft electrified systems, aircraft power supply system, technical maintenance of electronic equipment.

### Learning outcomes and assessment

Learning outcomes	Assessment methods
A student understands airline's structure and tasks.	Seminar: Airline structure and tasks.
A student knows aircraft avionics complex composition, tasks, operation.	Seminar: Aircraft avionics complex.
A student knows electronic device test equipment.	Seminar: Electronic device test equipment.
A student is able to carry out electronic equipment testing.	Individual work: Electronic equipment testing.
A student is able to assemble and dismantle the avionics system aggregates.	Individual work: avionics system aggregate assembling.
A student is able to define the avionics system unit faults.	Individual work: aggregates fault detection.
A student is able to perform maintenance procedures.	Individual work: maintenance procedures.

### Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	26.0	39.0	0.0	0.0	0.0			*