



## RTU Course "Practical Placement"

15E01 Aeronautikas tehnoloģiju katedra

### General data

Code	TAE010
Course title	Practical Placement
Course status in the programme	Internship
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, 26.0 Credit Points, 39.0 ECTS credits
Possibility of distance learning	Not planned
Abstract	European Union Joint aviation regulations. EC Regula No. 2042/2003 on maintenance of the flight validity of aircrafts and aeronavigation devices, products and devices and the statement of the organizations and the personnel involved in performance of this problem. Part-66 7th module. Technical maintenance. During the placement students familiarize themselves with the new aircraft maintenance products, methods and technological processes at the aviation company and choose the topic for their research work.
Goals and objectives of the course in terms of competences and skills	<p>During practical placement students learn and acquire skills:</p> <ul style="list-style-type: none"> <li>- In practical work with tools and services delivered;</li> <li>- in work with technical documentation;</li> <li>- in maintenance technology and performing aircraft maintenance;</li> <li>- in certain aircraft assemblies, subassemblies, system failures and inherent defects;</li> <li>- in safety and environmental protection requirements for aircraft maintenance.</li> </ul> <p>Students after internships must be able to:</p> <ul style="list-style-type: none"> <li>- conduct engineering analysis of the aircraft technical condition;</li> <li>- organize production teams and shift work;</li> <li>- implement line and base maintenance in accordance with maintenance regulations;</li> <li>- detect and prevent failures.</li> </ul>
Structure and tasks of independent studies	Independent study of literature, daily reports, and final report.
Recommended literature	<ol style="list-style-type: none"> <li>1) Komisijas Regula (EK) Nr. 2042/2003 (2003. gada 20. novembris) par gaisa kuģu un aeronavigācijas ražojumu, daļu un ierīču lidojumderīguma uzturēšanu un šo uzdevumu izpildē iesaistīto organizāciju un personāla apstiprināšanu (dokuments attiecas uz EEZ).</li> <li>2) Konvencija par starptautisko civilo aviāciju (Čikāga, 1944. gada 7. decembris), Latvijas Republika - ratificējusi 1992. gada 13. jūlijā.</li> <li>3) PART-66, 145, JAR-OPS.</li> <li>4) Aircraft operations manual (konkretam GK tipam).</li> <li>5) M.J. Kroes. Aircraft Maintenance &amp; Repair Sixth Edition, Clencoe, New York, 1993, 650 lpp.</li> <li>6) General Kit, MTMO21, 5 books, 2002, 700 lpp.</li> <li>7) Airframe Kit, MTMO22, 3 books, 750 lpp.</li> <li>8) Powerplant Kit, MTMO23, 3 books, 2002, 625 lpp.</li> <li>9) LR aviācijas depart. un CAA dokumenti tehniskās ekspluatācijas nodrošināšanai, www.caa.lv.</li> </ol>
Course prerequisites	Aircraft aerodynamics, engine theory and design.

### Learning outcomes and assessment

Learning outcomes	Assessment methods
A student is able to reach necessary results at work in a workshop.	Ability to work with tools and manufacture simple details in a workshop. Criteria: 1. conformity of a detail with the drawing; 2. correct technological sequence.
Students are able to solve aircraft maintenance and repair tasks.	Aircraft maintenance and repair process of scheme preparation. Criteria: 1. a properly constituted scheme. 2. term compliance with standards.

### 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			*