

**Estonian Aviation Academy**  
**SYLLABUS**

<b>I. GENERAL DATA ON SUBJECT COURSE</b>	
CODE AND NAME OF SUBJECT (in Estonian and English)	MT.C.066 Lennuliiklusteeninduse töö korraldamine <i>Organisation of Work in Air Traffic Services</i>
ACADEMIC YEAR, TERM, FORM OF STUDIES	2018/2019 autumn term, daytime study
CURRICULUM, SPECIALITY AND MODULE WHERE THE SUBJECT BELONGS TO	Aviation Management (2284): AM, ER
VOLUME OF SUBJECT (ECTS)	3.0 ECTS
FORM OF CONTROL	Examination
WORKLOAD AND FORMAT OF STUDIES	Contact hours – 29 hrs Independent work – 49 hrs Practical training – 0 hrs
LANGUAGE OF INSTRUCTION	English/Estonian
ADDITIONAL INFORMATION (PREREQUISITE SUBJECT COURSES, RESTRICTIONS)	-
LECTURER	Tanel Kulbas, Üllar Salumäe

<b>II. GOAL OF SUBJECT, LEARNING OUTCOMES AND SHORT DESCRIPTION OF THE COURSE</b>	
GOAL OF SUBJECT COURSE	Development of the knowledge for Air Navigation Service Provider (ANSP) management
LEARNING OUTCOMES	The student having passed the subject: <ol style="list-style-type: none"> <li>1. Can describe the structure of air navigation services and air traffic services, and understands the objectives of these.</li> <li>2. Can describe airspace structure and understands the importance of airspace management.</li> <li>3. Can describe the basic operational procedures of different air traffic services units and technical devices.</li> <li>4. Understands the necessity and procedures of supervision and certification of service providers and investigation procedures.</li> <li>5. Knows the various business interests of ANSP general stakeholders.</li> <li>6. Has acquired the knowledge related to business planning of the Air Navigation Services Provider organisation.</li> <li>7. Orients in different operational development and managerial change programmes.</li> </ol>

	8. Orients in international developments in ATM domain, particularly in Europe.
SUBJECT COURSE DESCRIPTION	The course gives an overview and basic knowledge about air traffic management organisation and operations in European operational environment

<b>III. GRADING SYSTEMS AND CRITERIA</b>	
PREREQUISITES TO BE ALLOWED TO TAKE EXAMINATION/PRELIMINARY EXAMINATION	
FORMATION OF EXAMINATION MARK/OF PRELIMINARY EXAM	Written exam will cover 100% of the total.
OPPORTUNITIES FOR SETTling ARREARS / INSUFFICIENCIES IN ACADEMIC PROGRESS	Examination can be re-taken.
GRADING SYSTEM	RESPECTIVE MARKING CRITERIA
	Percentage for final evaluation: 91-100% grade A 81-90% grade B 71-80% grade C 61-70% grade D 51-60% grade E

<b>IV. SCHEDULE AND LIST OF TOPICS</b>		
WEEK OF YEAR	WORK FORMAT	TOPICS
	Lecture, 2h	The structure and objectives of air navigation services and an overview of international and national basic regulatory documentation
	Lecture, 2h	Measurement of levels
	Lecture, 2h	Airspace related terminology, airspace structure and airspace management
	Lecture, 2h	The structure and objectives of air traffic services and air traffic management
	Lecture, 4h	Provision of air traffic services, cooperation between different units: aerodrome control, approach control, area control and aerodrome flight information service. Handling and use of aeronautical information
	Lecture, 2h	Supervision and certification of air navigation service providers
	Lecture, 2h	Non-standard situations and investigation procedures

	Lecture, 4h	ANSP – organisation description, Single European Sky, SESAR, further development of European ATM (Üllar Salumäe)
	Lecture, 3h	ANSP – business plan. Business plan: calculating the ANSP service fees (Üllar Salumäe)
	Consultation 2h	
	Exam, 2 h	Written Exam

## V. LEARNING MATERIALS

### Compulsory materials:

1. Lecture notes in Moodle at <http://eava.ee/mdle2/course/view.php?id=132>
2. John Bowen and Jean-Paul Rodrigue, Air Transport, <http://people.hofstra.edu/geotrans/eng/ch3en/conc3en/ch3c5en.html>
3. European Commission, Mobility and Transport, [http://ec.europa.eu/transport/air/index\\_en.htm](http://ec.europa.eu/transport/air/index_en.htm)
4. EUROCONTROL, Air Traffic Management, <http://www.eurocontrol.int/articles/what-air-traffic-management>

### Additional materials recommended:

5. European Air Traffic Management: Principles, Practice and Research, edited by Andrew Cook, Ashgate 2007, Hampshire UK, 260 p.
6. Lecture additional materials in Moodle at <http://eava.ee/mdle2/course/view.php?id=132>