

Estonian Aviation Academy

**COMMERCIAL AVIATION MANAGEMENT
CURRICULUM**

Curriculum version: 2024/2025

GENERAL INFORMATION

Name of Curriculum	Commercial Aviation Management
Level of Curriculum	514 Applied higher education
Study format	Full-time
Higher educational institution	Estonian Aviation Academy
Credits total	180 ECTS
Standard duration	3 years
Curriculum group	Transportation services
Curriculum code	218187
Instruction language	English
Other languages to reach learning outcomes	N/A
Registration at EHS	January 6th, 2021
Version	March 27th, 2024
Specialisation	Main speciality: <i>Commercial Aviation Management</i> Additional specialisation: N/A
General objectives	The general goal of the curriculum is that the graduate would have knowledge of management of aviation-related processes which are based on the main functions of commercial organisations in the aviation sector. The goal also is that the graduate would have prerequisites to perform the duties of company's work organisation processes manager.
Learning outcomes	The graduate of Commercial Aviation Management: 1) has a systematic understanding of the basic concepts related to aviation, the principles of aviation management and new developments in international aviation; 2) is able to collect and analyse information related to the operation of an aviation company, process it with appropriate methods, interpret and analyse the results; 3) is able to create and use IT-solutions and simulation models related to the activities of the aviation sector; 4) has systematic knowledge of logistics, international economics, financial, economic and strategic planning activities of an airline; 5) knows the principles of management and teamwork, possesses communication skills necessary for work and has the ability to work in an international environment; 6) makes responsible management decisions and is guided by the ethical and environmentally conscious principles acquired during the study process; 7) has a systematic overview of the nature and main elements of academic research and conducts analytical research.
Admission requirements	1) Secondary education or equivalent foreign qualification; 2) English language B2 level minimum; 3) Other conditions are set out in the admission rules.

Brief description of the curriculum structure	<p>The curriculum consists of the following modules:</p> <ol style="list-style-type: none"> 1. Introductory Module (33 ECTS) 2. Technology and Analysis Module (25 ECTS) 3. Air Transport Operations Module (32 ECTS) 4. Air Transport Economics and Management Module (24 ECTS) 5. Internship Module (27 ECTS) 6. Research Project and Final Exam Module (12 ECTS) 7. Electives and Foreign Exchange Module (15 ECTS) 8. Optional and Foreign Exchange Module (12 ECTS)
Choice and conditions of subjects	<p>The subjects of the curriculum are structured in different modules (see above).</p> <p>Subjects are divided into compulsory (153 ECTS), elective (15 ECTS) and optional (12 ECTS) subjects.</p> <p>Elective and optional subjects may also be taken at other educational institutions (including the Erasmus Window) and will be considered after EAVA recognition.</p>
Requirements for completion	<p>In order to complete the curriculum, the student must pass the compulsory subject courses and electives prescribed in the curriculum and complete the internships in full and defend the research paper and complete the final exam with a positive grade.</p>
Documents issued after completion	<p>Diploma Diploma Supplement</p>
Title of diploma or degree obtained on graduation	<p>Bachelor of Science in Engineering (BSc)</p>
Additional information	<p>Curriculum Manager eava@eava.ee, +372 7448 100</p>

CURRICULUM MODULES AND SUBJECTS

Introductory Module		33 ECTS
Objectives	The aim of the basic module is to create a theoretical framework for passing specialty subjects in the curriculum.	
Learning outcomes	Student who has passed the module: <ol style="list-style-type: none"> 1) uses skilfully information literacy tools, word processing, spreadsheet and presentation software; 2) understands the functioning of the aviation industry and the development trends; 3) knows the basics of economic theory, basic terminology and general principles of economic operation; 4) has basic knowledge related to entrepreneurship and analyses the business environment and shapes the company's development strategies; 5) knows the basic principles of professional ethics, the role of ethics in business and is able to express his or her views in an argumentative manner; 6) understands basic accounting concepts, analyses and interprets financial statements; 7) understands the theories of international economics and the external environment affecting international aviation; 8) speaks professional English. 	

Subject code	Subject	Credit, ECTS	Semester
CAM.136	Introduction to Aviation	3	1F
CAM.120	Introduction to Economics	6	1F
SD.083	Aviation English	6	1F
AM.139	Economic Accounting	3	1F
CAM.116	Digital Skills for Lifelong Learning	3	1F
CAM.119	Introduction to Entrepreneurship	6	1S
AM.137	International Economics	3	1S
CAM.091	Business Ethics and Communication	3	2F

Technology and Analysis Module		25 ECTS
Objectives	The student who has passed the module has deepened mathematical analysis and modeling skills, increased information technology skills and acquired an understanding of future technologies in aviation.	
Learning outcomes	Student who has passed the module: <ol style="list-style-type: none"> 1) knows how to use methods of mathematical analysis and modelling; 2) is able to perform statistical analysis and interpret the results; 3) using simulations, optimises and analyses the operations of air transport; 4) understands the concept of unmanned aviation and U-space, their main applications and applicable legislation; 5) explains the links between global change and aviation; 6) understands the importance of sustainability and its practices in aviation; 7) understands the relationship between IT and business needs. 	

Subject code	Subject	Credit, ECTS	Semester
CAM.085	Higher Mathematics	6	1F
CAM.092	Statistics and Econometrics	6	1S
AM.136	Information Technology	3	2F
CAM.129	Innovation and Future Technologies in Aviation	6	2S
CAM.138	Simulation in Aviation Management	4	3F

Air Transport Operation Module		32 ECTS
Objectives	The student who has passed the module has developed a broad-based understanding of the operation of the aviation sector and the skills to make planning and management decisions in the field.	
Learning outcomes	<p>Student who has passed the module:</p> <ol style="list-style-type: none"> 1) is able to optimise and analyse the activities of air transport including an understanding of their operation, management and its challenges; 2) is familiar with the principles of operation and planning applied in an air transport organisation, is able to shape the use of its resources 3) knows the technical possibilities of performing a flight; 4) has a systematic understanding of the structure, management and planning aspects of airport operations and ground handling; 5) is able to plan the logistics of passenger and freight flows and flight operations according to its specifics; 6) is familiar with the main legislation governing the operation of an airline; 7) has a systematic overview of legislation relating to international aviation. 8) knows the principles of designing an optimal line network. 	

Subject code	Subject	Credit, ECTS	Semester
AM.095	Airport Operations and Ground Handling Management	6	1S
AM.103	Logistics	3	1S
CAM.140	Air Cargo	2	2F
CAM.128	Regulations and Aviation Law	3	2F
CAM.126	Flight Operations Management	6	2F
CAM.127	Airline Network Planning	6	2S
AM.096	Operations Management in Air Transport	6	3F

Air Transport Economics and Management Module		24 ECTS
Objectives	After completing the module, the student knows the theoretical and practical foundations of business economics and management in a specific framework of the commercial aviation sector.	
Learning outcomes	Student who has passed the module: <ol style="list-style-type: none"> 1) has specialist knowledge of air transport economics; 2) distinguishes and analyzes terms, processes, and theoretical concepts related to innovation and its management and is able to use them in practical management activities; 3) is able to analyse the specific financial activities and budgeting of an airline; 4) plans, manages and implements projects; 5) has a systematic overview of compliance and quality management systems related to international aviation; 6) has a conceptual understanding of the roles of different aviation organisations in the air transport system, including an understanding of the main contemporary issues and challenges related to the management of an air transport organisation. 	

Subject code	Subject	Credit, ECTS	Semester
AM.140	Airline Financial Planning	3	2F
CAM.104	Basics of Compliance and Quality Management	3	2F
AM.148	Implementing Digital Innovations in Entrepreneurship	3	2S
AM.133	Project Management	3	2S
AM.069	Air Transportation Economics	6	2S
AM.135	Speciality project	6	3F

Internship Module		27 ECTS
Objectives	During the internship module, the student consolidates the acquired academic knowledge in practical activities and receives support in planning his / her career.	
Learning outcomes	Student, who has passed the module: <ol style="list-style-type: none"> 1) has demonstrated the use of his/her academic knowledge in practical activities in the aviation sector; 2) has an overview of the structure and activities of the organisation which was the basis for the internship and of the career opportunities in that institution; 3) is able to perform the tasks assigned to him or her at the place of practice correctly, properly and within the expected time frame; 4) is able to collect, systematise, analyse and use the knowledge and skills acquired during the internship in his/her academic activities and later special activities; 5) is able to write an analytical internship report in an academic form. 	

Subject code	Subject	Credit, ECTS	Semester
CAM.109	Internship	27	3S

Electives and Foreign Exchange Module		15 ECTS
Objectives	The student has individually expanded his / her professional knowledge based on the goal of the curriculum.	
Learning outcomes	Upon passing the electives, the student: <ul style="list-style-type: none"> 1) has deepened their professional knowledge in areas that are individually interesting to them; 2) has demonstrated their ability to successfully cope in a foreign study and work environment in case of studying abroad. 	
Selection principles	The student can choose subjects from the curriculum's optional subjects or from courses offered by partner universities in foreign countries (for example, Erasmus Window), which have been recognized by ELA in accordance with the objectives of the curriculum.	

Subject code	Subject	Credit, ECTS	Semester
SD.117	Estonian Language and Culture	3	1F
AM.101	Basics of Aeronavigation	3	1S
CAM.107	Marketing	3	1/2S*
AM.146	Flight Planning and Monitoring	3	2F
SD.101	Foreign language	6	2F
CNS.073	Cyber Security in Aviation	3	2S
AM.144	Unmanned Aircraft Systems and Applications	4	3F
CAM.090	Public Sector Economics	3	2/3S*
AM.145	Airline Revenue Management	3	2/3S*

* group will be open every 2 year

Research Project and Final Exam Module		12 ECTS
Objectives	The student who has passed the module has systemic skills for conducting independent analytical research and complex professional knowledge.	
Learning outcomes	Student, who has passed the module: <ul style="list-style-type: none"> 1) is able to express himself/herself in writing in a professional academic language; 2) is able to conduct research, analyse and interpret data and use appropriate research methods; 3) demonstrates his or her professional qualification in the form of a complex examination. 	

Subject code	Subject	Credit, ECTS	Semester
SD.118	Basics of Research and Research Project	6	3F
CAM.131	Final Exam	6	3S