

## Discipline



### Fundamentals of Air Traffic Control

Minor «Information support of aviation systems»

**Specialities:** *all specialities*

<b>Higher Education Level</b>	<i>first (bachelor)</i>
<b>Status of Discipline</b>	<i>selective</i>
<b>Volume</b>	150 hours / 5 credits ECTS
<b>Language</b>	<i>English</i>
<b>Subject of studying</b>	The task of studying the discipline "Air Traffic Control (ATC)" - studying the tasks of the main ICAO documents on flight services, airspace organization, flight rules, air traffic control services, the use of radar systems for ATC, the influence of the human factor on ATC PR, echelon systems
<b>Why it is interesting/should be studied (purpose)</b>	<p>The purpose of the educational discipline is to study technologies, methods and algorithms for solving the main functional problems of air traffic control.</p> <p>Air Traffic Control (ATC) is a service provided by ground controllers who direct aircraft to the ground through controlled airspace and may provide advisory services to aircraft in uncontrolled airspace. The main purpose of air traffic control around the world is to prevent collisions, organize and accelerate the flow of traffic, and provide information and other support to pilots.</p>
<b>How to use acquired knowledge and skills (competencies)</b>	<ol style="list-style-type: none"><li>1. The ability to carry out professional activities in the field of design and operation of avionics systems and airfield equipment responsibly, complying with the legislative and regulatory framework, as well as state and international requirements.</li><li>2. Ability to develop and effectively operate aircraft avionics and ground systems using information technologies.</li><li>3. The ability to evaluate the technical and economic characteristics of onboard systems and avionics devices and airfield equipment systems.</li><li>4. Ability to apply knowledge of a foreign language to familiarize yourself with ICAO documentation.</li><li>5. Ability to apply knowledge in practical situations of airfield equipment operation and air traffic control support.</li><li>6. Ability to search, process and analyze information from various sources.</li></ol>

<b>Prerequisites</b>	Prerequisites for studying this discipline: Fundamentals of navigation. Information and Measurement Devices of Avionics. Aerodromes		
<b>Co-Requisites</b>	The discipline supports the following courses: Design of aircraft control systems. Sections of the bachelor's qualification work		
<b>Type of classes, Testing</b>	Types of classes: lectures, laboratory classes Forms of obtaining education: full-time, part-time Forms of testing: exam		
<b>Department</b>	301 – Aircraft Control Systems		
<b>Faculty</b>	№ 3 – Aircraft Control Systems		
<b>Teacher</b>		<b>Name</b>	<b>Anatolii Zymovin</b>
		<b>Position</b>	Professor of dept. 301
		<b>Academic status</b>	Docent
		<b>Degree</b>	Candidate of technical sciences
		<b>e-mail</b>	<a href="mailto:a.zymovin@khai.edu">a.zymovin@khai.edu</a>
<b>Links to electronic course materials</b>	<a href="https://drive.google.com/drive/folders/10sAYmKlmXxTPoVx8znUdkIa9LMj5JYRt">https://drive.google.com/drive/folders/10sAYmKlmXxTPoVx8znUdkIa9LMj5JYRt</a>		
<b>Link to the work program (syllabus)</b>			