

**On-board Networks of Aviation Systems****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>	Formation of students' professional knowledge and practical skills in the development of on-board computer networks, configuration and operation of network equipment, work with network services, assessment and provision of a given level of network security for aviation systems
<b>Why it is interesting/should be studied (purpose)</b>	The goal of the educational discipline is for students to master the general functions and architecture of computer networks for on-board applications on aviation equipment, as well as the principles of data processing and technologies at the physical level and logical levels of routing and protocols, taking into account the standards used in aviation systems
<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 avionics autonomously and responsibly, observing the legislative and regulatory framework, as well as state and international requirements.</li> <li>2. The ability to develop avionics of aircraft and systems of ground complexes using information technologies.</li> <li>3. Ability to design avionics devices and systems using automated systems.</li> <li>4. The ability to evaluate the technical and economic characteristics of avionics systems and devices.</li> </ol>
<b>Prerequisites</b>	<p>Prerequisites for studying this discipline:</p> <p>Higher mathematics. Electrical engineering: Informatics. Metrology. Electronics and basics of circuit technology</p>
<b>Co-Requisites</b>	<p>The discipline supports the following courses:</p> <p>Microcontrollers. Aircraft Control Systems. Digital Control Systems. Aerodromes. Basics of Air Traffic Control</p>
<b>Type of classes, Testing</b>	<p>Types of classes: lectures, laboratory classes</p> <p>Forms of obtaining education: full-time, part-time</p> <p>Forms of testing: exam</p>
<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>			