On-board Networks of Aviation Systems

Minor *«Information support of aviation systems»*

Specialities: *all specialities*

Higher Education Level	*first (bachelor)*
Status of Discipline	*selective*
Volume	150 hours / 5 credits ECTS
Language	*English*
Subject of studying	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
Why it is interesting/should be studied (purpose)	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
How to use acquired knowledge and skills (competencies)	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. 2. The ability to develop avionics of aircraft and systems of ground complexes using information technologies. 3. Ability to design avionics devices and systems using automated systems. 4. The ability to evaluate the technical and economic characteristics of avionics systems and devices.
Prerequisites	Prerequisites for studying this discipline: Higher mathematics. Electrical engineering: Informatics. Metrology. Electronics and basics of circuit technology
Co-Requisites	The discipline supports the following courses: Microcontrollers. Aircraft Control Systems. Digital Control Systems. Aerodromes. Basics of Air Traffic Control
Type of classes, Testing	Types of classes: lectures, laboratory classes Forms of obtaining education: full-time, part-time Forms of testing: exam
Department	301 – Aircraft Control Systems
Faculty	№ 3 – Aircraft Control Systems

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Links to electronic course materials	https://drive.google.com/drive/folders/10sAYmKlmXxTPoVx8znUdkIa9LMj5JYRt		
Link to the work program (syllabus)			