



Mathematical Basis of Digital Avionics Systems

Рівень вищої освіти	<i>first (bachelor)</i>		
Статус дисципліни	<i>selective</i>		
Обсяг дисципліни	150 hours / 5 credits ECTS		
Мова викладання	<i>English</i>		
Що буде вивчатися (предмет вивчення)	The course "Mathematical Basis of Digital Avionics Systems" provides knowledge about the theoretical and practical aspects of building digital systems that are used in modern avionics systems, and also forms competencies in the application of knowledge of mathematics, in the amount necessary for using the mathematical foundations of digital avionics systems. Forms professional knowledge of the basic laws and functions of the algebra of logic in the acquirers; formalization of statements using logical variables and symbols; acquiring practical skills in the mathematical description of digital elements and systems		
Чому це цікаво/треба вивчати (мета)	The goal of the educational discipline is for students to master the basic laws and functions of the algebra of logic, the rules for conducting logical operations, the mathematical description of digital elements and avionics systems		
Як можна користуватися набутими знаннями і уміннями (компетентності)	<ol style="list-style-type: none"> 1. Ability to apply knowledge in practical situations. 2. Knowledge and understanding of the subject area and understanding of professional activity. 3. Ability to apply knowledge of mathematics, to the extent necessary for the use of mathematical methods for the analysis and synthesis of automation systems 4. The ability to use the achievements of science and technology in professional activities, to argue the choice of methods for solving specialized tasks in the analysis and synthesis of automation systems. 5. The ability to use modern technologies in the field of automation to solve professional tasks 		
Пререквізити	Prerequisites for studying this discipline: Higher mathematics, discrete mathematics		
Кореквізити	The discipline supports the following courses: Digital Control Systems, Aircraft Control Systems		
Організація навчання	Types of classes: lectures, laboratory classes, practical classes Forms of obtaining education: full-time, part-time Forms of testing: pass		
Кафедра	301 – Aircraft Control Systems		
Факультет	№ 3 – Aircraft Control Systems		
Викладач		ПІБ	Kosterna Olena
		Посада	Assistant
		Вчене звання	-
		Науковий ступінь	-
		e-mail	o.kosterna@khai.edu
Посилання на електронні матеріали курсу	https://drive.google.com/drive/folders/18poJfeP1ebCU1pZp1A9Sav58bIka0nwn		
Посилання на робочу програму (силабус)			