



Discipline

Autonomous Navigation Systems (Part 2)

Specialities: 134 «Aviation and rocket and space technics»,
272 «Aviation transport», specialities of the field
17 «Electronics and telecommunications»

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)	Formation of the acquirers of professional knowledge and practical skills in the mathematical description of the elements of autonomous navigation systems, methods of analysis of navigation systems, engineering methods of synthesis of algorithms of autonomous navigation systems.
Чому це цікаво/треба вивчати (мета)	The purpose of the educational discipline is to form the knowledge and skills necessary for the design of autonomous aircraft navigation systems
Як можна користуватися набутими знаннями і уміннями (компетентності)	<ol style="list-style-type: none">1. 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 navigation systems2. The ability to implement and use hardware and software-algorithmic means to increase the accuracy and reliability of navigation systems and other qualities of aircraft.3. The ability to analyze automation systems, form the architecture of automatic control systems, identify subsystems that are components of the overall system and the relationships between them4. The ability to determine the composition of the test equipment necessary for conducting experiments to determine the characteristics and parameters of autonomous navigation systems of unmanned aerial vehicles5. The ability to implement the achievements of domestic and foreign science and technology, to use innovative experience in the field of automation
Пререквізити	Prerequisites for studying this discipline: Higher mathematics: differential and integral calculus; study of functions and construction of their graphs. Theory of automatic control. Information and measuring devices. Digital control systems.
Кореквізити	The discipline supports the following courses: Aircraft control systems. Design and programming of control system controllers
Організація навчання	Types of classes: lectures, laboratory classes Forms of obtaining education: full-time, part-time Forms of testing: exam

Кафедра	301 – Aircraft Control Systems		
Факультет	№ 3 – Aircraft Control Systems		
Викладач		ПІБ	Anatolii Zymovin
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		Вчене звання	Docent
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Посилання на електронні матеріали курсу	https://drive.google.com/drive/folders/18poJfeP1ebCU1pZp1A9Sav58bIka0nwn		
Посилання на робочу програму (силабус)			