Subject	Variable speed electrical drives
HE level	Second (magistracy)
Year	1
Scope	5.5 ECTS credits
Language	Ukrainian, English
Department	Automation of electromechanical systems and electrical drives department
Learning requirements	Knowledge of disciplines: elements and devices of electromechanical systems and electrical drives, theoretical foundations of electrical engineering, electrical drive, power electronics, automation systems, electrical machines
What will be learned	Connection, tunning, commissioning and maintenance of the variable speed electrical drives and frequency converters.
Why is it necessary	The modern frequency converter is a high-tech electrical product that combines power electronics, a digital signal processor based control system with appropriate software which has several hundred settings that determine its modes of operation, automation and communication functions with external digital devices.
Why you can learn	- procedures for putting the frequency converter into operation;
(learning outcomes)	- understanding of the converter setting parameters;
	<ul> <li>ability to connect the converter to industrial networks and organize remote control of the converter;</li> <li>ability to perform the implementation of simple automation functions by means of a frequency converter;</li> <li>diagnose faults of the frequency converter;</li> </ul>
How to use the acquired	Commission and service frequency converters in real production conditions.
knowledge and skills	
(competencies)	
Information support	Syllabus, test project
Form of classes	Lectures, practical classes
Semester control	Test