Syllabus of Academic Discipline "Basics of metrological support"

No	Field name	Detailed content comments
1	Name of the faculty	FACULTY OF INFOCOMMUNICATIONS
2	The level of higher education	Bachelor's educational and scientific
3	Code and title of specialty	152 – Metrology and Information-Measuring
5	code and the of specialty	Technology
4	The type and title of the	Educational program – Technical Expertise
	educational program	
5	Title of the discipline	Basics of metrological support
6	Number of ECTS credits	5
7	The structure of the course	30h15 L, 189 P, 10h5 consultation, 80h
	(distribution	independence, type of control: exam
	by type and hours of training)	
8	Schedule (terms) of study of the subject	IV year, VII semester
9	Prerequisites for learning the	Previously, the disciplines "Higher mathematics",
	discipline	be studied
10	Abstract (content) of the discipline	Normative discipline of basic (professional)
_	r i i i i i i i i i i i i i i i i i i i	studying in the specialty, contains 2 parts with the
		following content modules:
		1. Basic concepts of metrological support.
		2. Selection of controlled technical parameters
		objects.
		3. Metrological support for measurements and tests
		of technical objects.
		4. Metrological Service of Ukraine
11	Competencies, knowledge, skills,	Know the methods of selecting controlled
	understanding that a higher	parameters of technical objects, methods and
	education	instuments of controlling the parameters of
	acquirer has in the learning process	technical objects, normative and technical
		provisions of metrological support at all stages of
		the life cycle of technical objects;
		Be able to independently choose controlled
		parameters of technical objects and of their control;
		develop methods of performing measurements and
		carry out their metrological examination; evaluate
		the effectiveness of the system of metrological
		To develop methods of performing measurements
		in case of their absence in the technical
		documentation or inconsistency with the current
		legislation and regulatory framework of Ukraine
12	Learning outcomes of a Higher	The ability to determine the controlled parameters
	Education applicant	of technical objects.
		The ability to choose measuring device to control
		the parameters of technical objects according to
		their accuracy.
		The ability to develop a methodology for

		performing measurements and conduct their
		metrological examination
13	Assessment system in accordance	To evaluate the student's work during the semester,
	with each task for taking	the final rating grade is calculated as the sum of
	tests/exams	grades for various classes and control measures.
		Practical lessons $1 - 3$ (610)×3 = 1830 points
		Laboratory works 1, 2 (610) \times 2 = 1220 points
		Control point 1 3050 points
		Practical lessons $4 - 7$ (610)×4 = 2440 points
		Laboratory work 3 610 points
		Control point 2 3050 points
		A total of 60100 points per semester
		The form of final control is a written (combined)
		exam.
		With this type of control, the final score Pf is
		calculated according to the formula:
		Pf = 0.6* Psem + 0.4* Pex,
		where Psem is the grade for the semester in the 100-
		point system,
		Rex is the grade for the exam in the 100-point
		system.
		The exam ticket consists of four theoretical
		questions and a task. Theoretical questions and task
		are valued at 20 points each (in total - 100 points).
14	The quality of the educational	Adherence to the principles of academic integrity
	process	(http://lib.nure.ua/plagiat). Update the work
	•	program of the discipline – 2022 year.
15	Methodological support	Complex of educational and methodical support
		of the educational discipline "Basics of
		metrological support" for the bachelor of a specialty
		152 "Metrology and information-measuring
		technology", educational program "Technical
		expertise" [Electronic resource] / KhNURE;
		Compiler: O. Degtyarov Kharkiv, 2020.
		http://catalogue.nure.ua/knmz.
16	The developer of the Syllabus	Y.Kozlov, Department of Information and
		Measurement Technology, PhD
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