

Syllabus of Academic Discipline  
"Fundamentals of Technical Regulation"

№	Field name	Detailed content, comments
1.	Name of the faculty	Faculty of Cybersecurity
2.	The level of higher education	Bachelor's
3.	Code and title of specialty	G6 Information and Measurement Technology
4.	The type and title of the educational program	EP "Quality of Products, Processes and Software"
5.	Code and title of the discipline	OTR Fundamentals of Technical Regulation
6.	Number of ECTS credits	4
7.	The structure of the course (distribution by type and hours of training)	24 h. – 12 l., 24 h. – 12 p., 8 h. – 4 k., 64 g. – independent work, type of control: test
8.	Schedule (terms) of study of the subject	1st year, 2nd semester
9.	Prerequisites for learning the discipline	Previously, the disciplines "Introduction to the specialty" should be studied; "Management and Marketing".
10.	Abstract (content) of the discipline	The normative discipline of basic (professional) training in the specialty contains content modules: 1. Components, tasks and current state of technical regulation. 2. Modern world trends in the development of metrology, standardization, conformity assessment and market surveillance. 3. The role of international organizations in the system of international technical regulation. 4. Overcoming technical barriers in trade.
11.	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	Integral competence: Ability to solve complex specialized tasks and practical problems in the field of technical regulation, which are characterized by complexity and uncertainty of conditions, which involves the application of theories and methods of quality management. <b>General competencies:</b> GC-1 Ability to apply professional knowledge and skills in practical situations. GC-2 Ability to communicate in the state language, both orally and in writing GC-5 Ability to search, process and analyze information from various sources. GC-8. Ability to learn and master modern knowledge. GC-11 Ability to realize one's rights and obligations as a member of society, to realize the values of a public (free, democratic) society and the need for its sustainable development, the rule of law, human and citizen rights and freedoms. GC-12 Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and development of the subject area, its place in the general system of knowledge about

		<p>nature and society and in the development of society, technology and technology, to use various types and forms of physical activity for active recreation and leading a healthy lifestyle.</p> <p>GC-13 Ability to make decisions and act in compliance with the principle of inadmissibility of corruption and any other manifestations of dishonesty</p> <p><b>Professional competencies:</b></p> <p>PC-10. Ability to develop a regulatory and methodological framework for quality assurance and technical regulation and develop scientific and technical foundations for quality management systems and certification tests.</p> <p>PC-12 Ability to apply modern standardized principles, in particular the PDCA cycle, process approach, risk management, to the development of management systems based on international standards</p> <p>PC-13 Ability to carry out conformity assessment procedures, in particular declaration, certification and accreditation of objects of various nature</p>
12.	Learning outcomes of a Higher Education applicant	<p><b>Program learning outcomes:</b></p> <p>PLO-3 Understand the broad interdisciplinary context of the specialty, its place in the theory of cognition and evaluation of objects and phenomena.</p> <p>PLO -15 Know and understand the subject area, its history and place in the sustainable development of engineering and technology, in the general system of knowledge about nature and society</p> <p>PLO-18 Be fluent in the terminological base of the specialty, understand the scientific and technical documentation of the state metrological system of Ukraine, international and interstate recommendations and guidelines for the specialty</p> <p>PLO-20 Understand and be able to apply modern standards of management systems, develop and assess the compliance of the quality management system of enterprises</p> <p>PLO-21 Know the main regulatory documents in the field of conformity assessment; principles, types and procedures of conformity assessment; procedure for certification, declaration of conformity, accreditation of conformity assessment bodies, market surveillance</p>
13.	Assessment system in accordance with each task for taking tests/exams	<p>8 tests and Essay on practical classes.</p> <p>Credit score (C) is calculated by the formula:  <math>C = (6-10)PN_{\text{1}} + (6-10)PN_{\text{2}} + (6-10)PN_{\text{3}} + (6-10)PN_{\text{4}} + (6-10)PN_{\text{5}} + (6-10)PN_{\text{6}} + (6-10)PN_{\text{7}} + (6-10)PN_{\text{8}} + (12-20)Essay = (60-100)</math> credit score.</p>
14.	The quality of the educational process	<p>Adherence to the principles of academic integrity (<a href="http://lib.nure.ua/plagiat">http://lib.nure.ua/plagiat</a>). Update of the discipline's work program – 2026.</p>
15.	Methodological support	<p>1. Methodical Instructions for Practical Classes in the Disciplines "Principles of Technical Regulation and</p>

		<p>Protection of Consumer Rights" for Students of All Forms of Study of the Specialty 152 "Metrology and Information and Measuring Equipment" of the Educational and Qualification Level "Bachelor" / Ed. Shtefan N.V. – Kharkiv: NURE.</p> <p>2. Methodical instructions for independent work on the discipline "Principles of Technical Regulation and Protection of Consumer Rights" for students of all forms of study of specialty 152 "Metrology and Information-Measuring Equipment" of the educational and qualification level "Bachelor" / Order. Shtefan N.V. – Kharkiv: NURE.</p>
16.	The developer of the Syllabus	<p>I.Moshchenko, Department of Information and Measurement Technology, associate professor, PhD  E-mail: <a href="mailto:inna.moshchenko@nure.ua">inna.moshchenko@nure.ua</a></p>