

Syllabus Form of Academic Discipline

№	Field name	Detailed content, comments
1	Name of the faculty	Faculty of Infocommunications
2.	The level of higher education	Master's
3.	Code and title of specialty	152 Metrology and Information-Measuring Engineering
4.	The type and title of the educational program	Educational professional program «Quality, Standardization and Certification»
5.	Code and title of the discipline	Qualimetry and Quality Management
6.	Number of ECTS credits	6
7.	The structure of the course (distribution by type and hours of training)	36 h. – 18 lectures, 36 h. – 12 practical, 12 h. – 6 consultations, 108 h. – independent work, semester control: combined exam
8.	Schedule (terms) of study of the subject	1-st course, 1-st semester of study
9.	Prerequisites for learning the discipline	A higher education applicant should to know Advanced Calculus, Physics, Basics of Technical Regulation
10.	Abstract (content) of the discipline	Content modules (topics): 1. Basic concepts of quality and qualimetry. Measures and quality indexes. 2. Determination of quality indexes. 3. Expert qualimetry. 4. Special qualimetry.
11.	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	The ability to use methods of quantitative quality assessment to analyze the state and dynamics of objects of activity using the necessary methods and tools of analysis; formation of students' holistic systemic idea of quality management as a modern management concept
12.	Learning outcomes of a Higher Education applicant	Ability to demonstrate in-depth knowledge of the essence of the concept of "quality" and basic approaches to its management; quantitative methods of quality assessment; ability to apply in practice quantitative methods for assessing the quality of products and services; analyze the condition and dynamics of objects in terms of their quality; solve problems of quantitative assessment of the quality of objects; to apply progressive methods of product quality management at a specific enterprise
13.	Assessment system in accordance with each task for taking tests/exams	1. Perform practical work 2. Write 4 tests 3. Get at least 60 points per semester. 4. Pass the combined exam. Exam score $O_{екз} = (60-100)$ points Exam in oral form Final score: $O_{д}^{екз} = 0,6 \cdot O_{сем} + 0,4 \cdot O_{екз}$.
14.	The quality of the educational process	Adherence to the principles of academic integrity (http://lib.nure.ua/plagiat). Updating the content of the discipline – 2020.
15.	Methodological support	1. Комплекс навчально-методичного забезпечення навчальної дисципліни "Кваліметрія та управління

		<p>якістю" підготовки магістра спеціальності 152 «Метрологія та інформаційно-вимірвальна техніка» [Електронний ресурс] / ХНУРЕ ; розроб. Н.В. Штефан. – Харків, 2017. – 98 с. http://catalogue.nure.ua/knmz.</p> <p>2. Куць В.Р., Столярчук П.Г., Друзюк В.М.. Кваліметрія. Львів: Вид-во Львівської політехніки, 2012. 256 с.</p> <p>3. Калейчик М.М. Кваліметрія: учеб. пособие. М.: МГИУ, 2004. 200 с.</p>
16.	The developer of the Syllabus	<p>N.V. Shtefan, Associate Professor of the MTE Department, PhD in Technical Sciences E-mail: natalya.shtefan@nure.ua</p>