N⁰	Field name	Detailed content, comments
1.	Name of the faculty	FACULTY OF INFOCOMMUNICATIONS
1.	I value of the faculty	
2.	The level of higher education	Master's educational and scientific
3.	Code and title of specialty	152 – Metrology and Information-Measuring
		Technology
4.	The type and title of the educational	Educational program – Quality assurance
	program	
5.	Code and title of the discipline	
6.	Number of ECTS credits	3
7.	The structure of the course (distribution by	36 h. – 18 L., 18 h. – 9 P., 6 h. – 3 C., h. –
	type and hours of training)	54 independence, type of control: credit
8.	Schedule (terms) of study of the subject	I year, I semester
9.	Prerequisites for learning the discipline	Previously, the disciplines «Higher
		mathematics", Qualimetry should be studied.
10.	Abstract (content) of the discipline	Selective discipline of basic (professional)
		studying in the specialty, contains content
		modules:
		1. Classification of modern quality
		management tools.
		2. Comprehensive "Six Sigma" quality
		management model. Tools for implementation
		of the "Six Sigma" model.
		3. Modern quality management tools in lean
		production models.
		4. Modern tools for managing the quality of
11	Competencies Imoviladas skills	business processes.
11.	Competencies, knowledge, skills, understanding that a higher education	Knowledge of the goals and objectives of using modern quality control tools, the
	acquirer has in the learning process	methods of their use, advantages and
	acquirer has in the learning process	disadvantages. The ability to make a justified
		choice of certain quality control tools, based
		on the purpose of quality analysis and features
		of primary information; apply modern quality
		control tools in practice, use computer tools
		for processing and visualization of statistical
		data. Mastering the technique of using
		modern control tools to solve practical tasks
		in the field of quality management.
12.	Learning outcomes of a Higher Education	Ability to demonstrate knowledge and
	applicant	understanding of the essence of modern
		quality management tools; definition, essence
		and features of application of each tool;
		methods of applying quality tools; advantages
		and disadvantages of each tool. Be able to
		make a reasoned choice of a certain tool; to be
		able to apply modern quality control tools in

Syllabus of Academic Discipline "Modern quality management tools"

		practice.
13.	Assessment system in accordance with	6 tests on practical classes.
13.	each task for taking tests/exams	Credit score (C) is calculated by the formula:
	each task for taking tests/exams	$C=(8-15)PN_{2}1+(13-20)PN_{2}2+(8-15)PN_{2}3+(7-10)PN_{2$
		$15)PN_{2}4+(7-15)PN_{2}5+(17-20)PN_{2}6=(60-100)$
		credit score.
14.	The quality of the educational process	Adherence to the principles of academic
14.	The quality of the educational process	integrity (http://lib.nure.ua/plagiat). Update the
15	Mathedale sizel summart	work program of the discipline – 2022 year.
15.	Methodological support	1. Complex of educational and methodical
		support of the educational discipline "Models
		of total quality management" for the bachelor
		of a specialty 152 "Metrology and
		information-measuring technology",
		educational program "Technical expertise"
		[Electronic resource] / KhNURE; Compiler:
		I.Moshchenko Kharkiv, 2018.
		http://catalogue.nure.ua/knmz.
		2. Metodychni vkazivky do praktychnykh
		zaniat z dystsyplin «Modeli zahalnoho
		keruvannia yakistiu» dlia studentiv usikh
		form navchannia spetsialnosti 152
		«Metrolohiia ta informatsiino-vymiriuvalna
		tekhnika» osvitno-profesiinoi prohramy
		«Tekhnichna ekspertyza» / Uporiad. I.O.
		Moshchenko. – Kharkiv: KhNURE, 2021. –
		32 s.
		3. Kompleks navchalno-metodychnoho
		zabezpechennia navchalnoi dystsypliny
		"Suchasni instrumenty upravlinnia yakistiu"
		pidhotovky mahistriv spetsialnosti 152
		«Metrolohiia ta informatsiino-vymiriuvalna
		tekhnika», osvitnia prohrama
		«Zabezpechennia yakosti» [Elektronnyi
		resurs] / KhNURE ; rozrob. I.O.Moshchenko.
16		– Kharkiv, 2023.
16.	The developer of the Syllabus	I.Moshchenko, Department of Information
		and Measurement Technology, PhD
		E-mail: <u>inna.moshchenko@nure.ua</u>