Syllabus Form of Academic Discipline

№	Field name	Detailed content, comments
1.	Name of the faculty	Faculty of Infocommunications
2.	The level of higher education	Bachelor's
3.	Code and title of specialty	175 Information and Measurement Technologies
4.	The type and title of the educational program	Educational professional program «Quality of Products, Processes and Software»
5.	Code and title of the discipline	Testing and Quality Control of Software Products
6.	Number of ECTS credits	6
7.	The structure of the course (distribution by type and hours of training)	Lectures – 24 hours, practical – 12 hours, laboratory – 12 hours, consultations – 12 hours, independent work – 120 hours, semester control – exam.
8.	Schedule (terms) of study of the subject	4th year, 7th semester of study
9.	Prerequisites for learning the discipline	Informatics, Basics of Qualimetry should be previously studied
10.	Abstract (content) of the discipline	Content module 1. Software and its life cycle. Content module 2. Software quality. Content module 3. Software testing. Principles, types and levels of testing. Content module 4. Software testing methods.
11.	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	General competencies GC1. Knowledge of applying professional knowledge and skills in practical situations. GC4. Skills in using information and communication technologies. Professional competences PC11. The ability to form quality models and carry out a quantitative assessment of the quality of objects of various nature. PC15. Ability to test software for various purposes.
12.	Learning outcomes of a Higher Education applicant	Program learning outcomes PLO13. Know and be able to apply existing means of modern information technologies to solve problems in the field of metrology and information and measurement technology.
13.	Assessment system in accordance with each task for taking tests/exams	Evaluation of the student's work during the semester: 1. Work out and defend laboratory works. 2. Complete tasks in practical classes. 3. Get at least 60 points per semester. 4. Take a combined exam. Grade for the semester O_{cem}: (10-17)x3 lab + (5-8)x6 pc = (60-100) points. Grade for the exam O_{ek3} = (60-100) points.

		Final grade $O_{\text{д}}^{\text{екз}}$ is calculated according to the formula: $O_{\text{д}}^{\text{екз}} = 0,6 \cdot O_{\text{сем}} + 0,4 \cdot O_{\text{екз}}$.
14.	The quality of the educational process	Compliance with the principles of academic integrity (http://lib.nure.ua/plagiat). Update of the work program of the discipline – 2023. The laboratory workshop is equipped with the CodeBlocks integrated development environment and the GNU Octave software package.
15.	Methodological support	Complex of educational and methodological support of the educational discipline "Testing and quality control of software products " of the bachelor's training in the specialty 175 Information and Measurement Technologies of the educational programs "Quality of Products, Processes and Software" [Electronic resource] / Edited by: O.V. Zaporozhets. – Kharkiv: KhNURE, 2023. – 296 p.
16.	The developer of the Syllabus	O.V. Zaporozhets, Associate Professor of the IMT Department, Ph.D., Associate Professor E-mail: oleg.zaporozhets@nure.ua