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	Quality Management of IT projects
6.	Number of ECTS credits	5,5
7.	The structure of the course (distribution by type and hours of training)	Lectures – 34 hours, practical – 32 hours, consultations – 12 hours, independent work – 87 hours, semester control – exam.
8.	Schedule (terms) of study of the subject	4th year, 8th semester of study
9.	Prerequisites for learning the discipline	Basics of Qualimetry, Standardized approach to Quality Management, Modern Tools of Quality Management should be previously studied
10.	Abstract (content) of the discipline	Content module 1. Modern approaches to quality management of software products. Topic 1. General concepts of quality management. Topic 2. General concepts of software quality. Software quality characteristics. Topic 3. Modern standards regulating requirements for the quality of software products and methods of its evaluation. Topic 4. Quality model of systems and software products (ISO/IEC 25010). Topic 5. Software quality measurement (ISO/IEC 25021). Content module 2. Tools and methods of quality management. Topic 1. Quality control, assurance and management in the software life cycle. Topic 2. Total quality management (TQM). Topic 3. Statistical methods of quality management. Topic 4. Methods of risk management.
11.	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	General competencies GC1. Ability to apply 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. PC14. Ability to apply quality management

		methodologies.
12.	Learning outcomes of a Higher Education applicant	Program learning outcomes PLO19. Understand world trends regarding the professional approach to the quality of products, processes and software, in particular, modern quality models and the principles of forming a nomenclature of quality indicators; regulatory support and general methodology for quantitative quality assessment.
13.	Assessment system in accordance with each task for taking tests/exams	Evaluation of the student's work during the semester: 1. Complete all practical classes. 2. Get at least 60 points per semester. 3. Take a combined exam. Grade for the semester $O_{\text{сем}}$: (7,5-12,5)x8 pc = (60-100) points. Grade for the exam $O_{\text{екз}}$ = (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 – 2022.
15.	Methodological support	Complex of educational and methodological support of the educational discipline "Management of the quality of IT projects" for the preparation of bachelors in the specialty 175 Information and Measurement Technologies of the educational program "Quality of Products, Processes and Software" [Electronic edition] / KhNURE; development O. V. Zaporozhets. – Kharkiv, 2022. – 202 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