Syllabus Form of Academic Discipline

N⁰	Field name	Detailed content, comments
1.	Name of the faculty	Faculty of Computer Sciences
2.	The level of higher education	Master's
3.	Code and title of specialty	122 Computer Sciences
4.	The type and title of the educational	Educational and scientific program «System
	program	Design»
5.	Code and title of the discipline	Software Product Quality Management
6.	Number of ECTS credits	3
7.	The structure of the course (distribution by	Lectures – 18 hours, laboratory – 12 hours,
	type and hours of training)	consultations – 6 hours, independent work –
		54 hours, semester control – credit.
8.	Schedule (terms) of study of the subject	2th year, 3th semester of study
9.	Prerequisites for learning the discipline	Mathematical Analysis, Probability Theory,
		Probabilistic Processes and Mathematical
		Statistics, Economics and Business 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).
		(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,	General competencies
	understanding that a higher education	GC1. Ability to abstract thinking, analysis
	acquirer has in the learning process	and synthesis.
		GC11. Ability to make informed decisions.
		Professional competences
		PC/. Ability to apply basic quality control
		tools and new quality management tools and
		ensure their compliance with the requirements
		of ISO standards; classify product quality
		costs; independently master the conceptual
		apparatus of quality management and

		certification.
12.	Learning outcomes of a Higher Education applicant	Program learning outcomes PLO8. Ability to plan and organize work related to product quality management at all stages of its life cycle; determine product quality indicators at all stages of project implementation; apply quality management
13.	Assessment system in accordance with each task for taking tests/exams	 systems. Evaluation of the student's work during the semester: 1. Complete all practical classes. 2. Get at least 60 points per semester.
		Grade for the semester O_{CEM} : (20-33,3)x3 lab = (60-100) points.
14.	The quality of the educational process	Compliance with the principles of academic integrity (<u>http://lib.nure.ua/plagiat</u>). Update of the work program of the discipline – 2022.
15.	Methodological support	Complex of educational and methodological support of the educational discipline "Software Product Quality Management" for master's training in specialty 122 Computer Science of the educational program "System Design" [Electronic edition] / KhNURE; development O. V. Zaporozhets. – Kharkiv, 2020. – 160 p.
16.	The developer of the Syllabus	O.V. Zaporozhets, Associate Professor of the IMT Department, Ph.D., Associate Professor E-mail: <u>oleg.zaporozhets@nure.ua</u>