



**Syllabus of the educational discipline**  
**« Software quality and testing »**

<b>Specialty</b>	<i>121 Software Engineering</i>
<b>Educational program</b>	<i>Software Engineering</i>
<b>Level of education</b>	<i>The first (Bachelor) level of higher education</i>
<b>Discipline status</b>	<i>Mandatory</i>
<b>Teaching language</b>	<i>English</i>
<b>Course / semester</b>	<i>3 year, 6 semester</i>
<b>Number of credits ECTS</b>	<i>5</i>
<b>Distribution by types of trainings and hours of study</b>	<i>Lectures – 20 hours.</i> <i>Laboratory studies – 40 hours.</i> <i>Self-study – 90 hours.</i>
<b>Form of final assessment</b>	<i>Grading</i>
<b>Department</b>	<i>Information Systems Department, 61166, Kharkiv, Nauky Av., 9a, Simon Kuznets KhNUE, main building, office 413, tel. +38(057)702-18-31, extension tel.: 4-37, web site: <a href="https://kafis.hneu.net">https://kafis.hneu.net</a></i>
<b>Teacher (-s)</b>	<i>Iryna Ushakova, Associate professor, PhD</i>
<b>Teacher's contacts</b>	<i>Iryna Ushakova, <a href="mailto:iryna.ushakova@hneu.net">iryna.ushakova@hneu.net</a>, <a href="https://kafis.hneu.net/ushakova-irina-oleksi%20%97vna/">https://kafis.hneu.net/ushakova-irina-oleksi%20%97vna/</a></i>
<b>Days of the classes</b>	<i><a href="#">According to the schedule</a></i>
<b>Consultations</b>	<i>At the Information Systems Department, in-person, according to the schedule of consultations, individual, chat on the pns web site</i>
<b>The purpose of the discipline:</b> mastering the methods and means of ensuring and quality control of software in the process of its development	
<b>Prerequisites for learning:</b> programming, object-oriented programming, databases, software engineering	
<b>The content of the discipline</b>	
Content module 1 <i>Basics of software testing.</i> Theme 1. Introduction to software testing. Theme 2. Types and directions of testing. Theme 3. Testing of documentation and requirements. Theme 4. The concept and properties of checklists, test cases, sets of test cases. Theme 5. Search and documentation of defects. Content module 2 <i>Organization of software testing processes.</i> Theme 6. Planning the testing process. Theme 7. Fundamentals of test automation. Theme 8. Introduction to Selenium IDE. Theme 9. Performance testing. Theme 10. Using different testing techniques	
<b>Material and technical support (software) of the discipline</b>	
<i>Jira, Selenium IDE</i>	
<b>Course page on the Moodle platform (personal training system)</b>	<a href="https://pns.hneu.edu.ua/">https://pns.hneu.edu.ua/</a>
<b>Assessment system of learning outcomes</b>	
The system of assessment of the formed competencies takes into account the types of classes, which include lectures, laboratory classes, as well as the performance of independent work. Assessment of the formed competencies of students is carried out according to the accumulative 100-point system. The current control carried out during the semester during laboratory classes and	



Independent work is estimated by the sum of points scored. The maximum possible number of points for the current and final control during the semester - 100 and the minimum possible number of points - 60.

Current control includes the following control measures: protection of laboratory works; tasks by topics; current control works; presentations on topics.

More detailed information on the assessment and accumulation of points in the discipline is given in the work plan (technological map) of the discipline.

#### **Policies of the Discipline**

The teaching of the discipline is based on the principles of academic integrity. Violations of academic integrity include: academic plagiarism, fabrication, falsification, write-off, deception, bribery, or biased evaluation. For violation of academic integrity, students are brought to the following academic responsibility: re-assessment of the relevant type of educational work

*More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the working plan of the educational discipline*

Syllabus approved at the meeting of the Department of Information Systems. Protocol № 17 from 10.06.2022