



Syllabus of the educational discipline "Quality of Software and Testing"

Specialty	12 "Information Technology"
Educational program	121 "Software engineering"
Level of education	First (bachelor's)
Discipline status	Base
Teaching language	English
Course / semester	3 course / 1 semester
Number of credits ECTS	5
Distribution by types of trainings and hours of study	Lectures – 20 hours. Laboratory works – 40 hours. Independent training – 90 hours.
Form of final assessment	Pass
Department	Informatics and Computer Engineering, 61166, Kharkiv, ave. Science, 9-a, S. Kuznets KhNEU., main building, room 405. Tel. 702-06-74 (4-38), Email: kafikt@hneu.edu.ua Website: http://www.kafikt.hneu.edu.ua
Teacher (-s)	Vilkhivska Olga, assoc. prof.
Teacher's contacts	1982gromova@gmail.com , +38(096)542-99-07
Days of the classes	Friday
Consultations	9:00-11:00 department ICE, room 405, by agreement on the initiative of the applicant
<i>The purpose of the discipline: expansion and deepening of theoretical knowledge and applied skills and abilities in the basic concepts and definitions in the field of quality assurance and software testing</i>	
Prerequisites for learning	
Basic knowledge of the discipline of algorithms and data structure	
Content of the educational discipline	
Content module 1 Basics of software testing	
Theme 1. Testing as a way to ensure the quality of the software product	
Theme 2. Testing at the stage of software product development	
Theme 3. Testing at the stages of planning and designing a software product	
Theme 4. Testing at the coding stage.	
Theme 5. Software errors	
Content module Organization of the software testing process	
Theme 6. Defect tracking system. Testing planning.	
Theme 7. Documentation of test materials.	
Theme 8. Automation of testing.	
Theme 9. Features of industrial testing	
Theme 10. Software quality problems and practical recommendations.	
Material and technical support (software) of the discipline	
C, C++	
Course page on the Moodle platform (personal training system)	Technological map, work program of the discipline, lectures, laboratory works https://pns.hneu.edu.ua/course/view.php?id=5294
Recommended literature	
1. Beiser B. Black box testing. Technology of functional testing / B. Beiser. – St. Petersburg : 2004. - 221 p.	
2. Dustin Elfrid. Automated Software Testing / Elfrid Dustin, Jeff Rashka, John Paul. – Moscow:	



public "LORY", 2003. - 567 p.

3. Crispin L. Flexible testing / L. Crispin, J. Gregory. – Moscow : Publishing House "Williams", 2010. - 464 p.

4. Canner Sam. Software testing. Fundamental concepts of business application management / Sam Kaner, Jack Folk, Eng Kek Nguyen. – Kiev: DiaSoft, 2001. - 544 p.

Assessment system of learning outcomes

Current control, which is carried out during the semester during lectures and laboratory classes and is estimated by the sum of points scored.

More detailed information on assessment is given in the technological map of the discipline

Accumulation of rating points in the discipline (example)

Types of training	Max points
Lectures	10
Laboratory classes	66
Written Test	24
Max points	100

Transference of Simon Kuznets KHNUE Characteristics of Students' Progress into the System of the ECTS Scale

Total score on a 100-point scale	ECTS assessment scale	Assessment on the national scale	
		for exam, differentiated test, course project (work), practice, training	for pass
90 – 100	A	excellent	pass
82 – 89	B	good	
74 – 81	C		
64 – 73	D	satisfactory	not pass
60 – 63	E		
35 – 59	FX	unsatisfactory	not pass
1 – 34	F		

Discipline policies

Active participation in the discussion of educational issues, preliminary preparation for laboratory tasks according to the recommended literature, high-quality and timely performance of tasks.

Conscientious execution of the schedule of classes in the discipline (applicants for higher education who are late for classes are not allowed to take classes).

For educational purposes, when using mobile devices, it is allowed to use only with the permission of the teacher.

The applicant for higher education has the right to find out about the number of accumulated points from the teacher of the discipline and to keep their own records of these points.

More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan) of the educational discipline (<https://pns.hneu.edu.ua/course/view.php?id=5294>).

Syllabus has been confirmed at the "Informatics and computer technologies" department session 01.10.2020 protocol №3.