

Course page on the Moodle platform

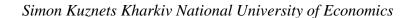
(personal training system)

Syllabus of the educational discipline

«Object-Oriented Programming»

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Specialty	121 Software Engineering
Educational program	Software Engineering
Level of education	The first (Bachelor) level of higher education
Discipline status	Mandatory
Teaching language	English
Course / semester	2 year, 3,4 semesters
Number of credits ECTS	12
Distribution by types of trainings	Lectures – 64 hours.
and hours of study	Laboratory studies – 68 hours.
	Self-study – 228 hours.
Form of final assessment	Grading- 3 sem, Grading including Exam 4 sem
Department	Department of Information Systems, 61166, Kharkiv, Nauky
Department	Av., 9a, Simon Kuznets KhNUE, main building, office 413, tel. +38(057)702-18-31, extension tel.: 4-37, web site: https://kafis.hneu.net/
Teacher (-s)	Yurii Eduardovich Parfonov, Associate Professor of the Information Systems Department, Senior Researcher
Teacher's contacts	Parfonov Y. E.: ypa2350@gmail.com
Days of the classes	According to the schedule
Consultations	At the Information Systems Department, in-person, according to the schedule of consultations, individual, chat on the pns web site
	form competencies to use object-oriented approach and modern es required to develop object-oriented applications
	Prerequisites for learning
The ba	asics of algorithms, Programming
Conto	ent of the educational discipline
Content module 1 The basics	of the Object-Oriented Paradigm
Theme 1. The basics of Microsoft .N	ET and Java SE platforms
Theme 2. The fundamentals of an ob-	
Theme 3. Object-oriented analysis programming (OOP)	(OOA), Object-oriented design (OOD) and Object- oriented
Content module 2 Technology	of OOP
Theme 4. Data abstraction and encap	·
Theme 5. Code reuse	
Theme 6. Basic usage of Git version	control system
Theme 7. Object-oriented design prin	
Theme 8. Introduction to design patter	<u>=</u>
Theme 9. Class libraries	
Content module 3 Exception I	Handling and Class Libraries
Theme 10. Exception handling	-
Theme 11. Standard class libraries of	FMicrosoft .NET та Java SE
Material and ted	chnical support (software) of the discipline
I	or Eclipse & JetBrains Rider or Microsoft Visual Studio IDEs

https://pns.hneu.edu.ua/





Assessment system of learning outcomes

The assessment system of gained competencies takes into account the types of classes that are lectures, laboratory classes, as well as the doing of independent work. Assessment of the gained competencies of students is carried out on a cumulative 100-point system. Current control, conducted during the semester during the laboratory classes and independent work, is assessed by the sum of the accumulated points.

The maximum possible number of points for the coursework and final control during the 1st semester is 100 and the minimum possible number of points is 60.

The maximum number of points for the coursework during the 2nd semester - 60, and the minimum possible number of points, which allows the student to qualify for taking exam - 35 points.

The maximum possible number of points for the final exam in the 2nd semester - 40 and the minimum possible number of points - 25.

Coursework includes the following activities: assignements on the topics of laboratory works; tests

More detailed information about the assessment and accumulation of points on the academic discipline is given in its working plan.

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