



Syllabus of the educational discipline
«System and business analysis in IT industry»

Specialty	<i>121 Software Engineering</i>
Educational program	<i>Software Engineering</i>
Level of education	<i>The first (Bachelor) level of higher education</i>
Discipline status	<i>Mandatory</i>
Teaching language	<i>English</i>
Course / semester	<i>2 course, 4 semester</i>
Number of credits ECTS	<i>5</i>
Distribution by types of trainings and hours of study	<i>Lectures – 20 hours. Laboratory studies – 40 hours. Self-study – 90 hours.</i>
Form of final assessment	<i>Grading</i>
Department	<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: https://kafis.hneu.net</i>
Teacher (-s)	<i>Iryna Ushakova, Associate professor, PhD</i>
Teacher's contacts	<i>Iryna Ushakova, iryna.ushakova@hneu.net, https://kafis.hneu.net/ushakova-irina-oleksi%20%97vna/</i>
Days of the classes	<i>According to the schedule</i>
Consultations	<i>At the Information Systems Department, in-person, according to the schedule of consultations, individual, chat on the pns web site</i>
The purpose of the discipline: acquisition of theoretical knowledge and formation of practical skills necessary for the use of a systems approach, its principles and methods in the analysis of software systems	
Prerequisites for learning: basics of algorithmization, object-oriented programming, databases, discrete analysis	
The content of the discipline	
Content module 1 <i>Fundamentals of system analysis of objects and processes of computerization.</i>	
Theme 1. Introduction to systems analysis.	
Theme 2. The concept and patterns of systems analysis.	
Theme 3. Types of systems.	
Theme 4. Methodology of systems analysis.	
Content module 2 <i>System analysis of objects and processes of computerization.</i>	
Theme. Information approach to systems analysis.	
Theme 6. Measures of information in the system.	
Theme 7. Management of complex objects.	
Theme 8. System analysis of the organization.	
Material and technical support (software) of the discipline	
<i>Xmind, Aris Express, Visual Paradigm</i>	
Course page on the Moodle platform (personal training system)	<i>Under development</i>
Assessment system of learning outcomes	
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