



The syllabus of the course «Strategy of information systems»

Specialty	<i>F6 Information systems and technologies</i>
Educational program	<i>Information systems and technologies</i>
Educational level	<i>The second (master's) level of higher education</i>
Course status	<i>Mandatory</i>
Language of instruction	<i>English</i>
Course / semester	<i>1 course, 1th semester</i>
Number of ECTS credits	<i>5 credits</i>
Distribution by types of classes and hours of study	<i>Lectures - 14 hours. Laboratory classes - 36 hours. Self study- 100 hours.</i>
Form of final control	<i>Exam</i>
Chair	<i>Department of Information Systems, room 413 (main building), (057) 702-18-31 (add. 4-37), department website: https://kafis.hneu.net/</i>
Teacher (s)	<i>Znakhur Serhii Viktorovich, phd, Associate Professor</i>
Contact Information teacher (s)	<i>serhii.znakhur@hneu.net</i>
Class days	<i>Lecture: згідно діючого розкладу занять Practical (laboratory): згідно діючого розкладу занять</i>
Consultations	<i>At the Department of Information Systems, full-time, according to the schedule of consultations, individual</i>

Learning objectives and skills:

The object of the course is to develop students' theoretical knowledge of the basics of enterprise architecture management and information systems development, to acquire practical skills that allow modeling business processes, developing information systems architecture and optimising the structure of an enterprise.

Structural and logical scheme of the course

Prerequisites	Postrequisites
Development and implementation of information systems	Complex Training Pre-graduate Practice Diploma Work

Content of the academic course

Content module 1: IS strategy fundamentals

Topic 1: Introduction to the discipline "IS Strategy"

Topic 2. Information system architecture. Microservices and SOA

Topic 3. Designing information flows and data integration. Modern cloud services

Content module 2. Building IS architectural solutions

Topic 4. Building BI and Web solutions based on cloud services

Topic 5. TOGAF

Topic 6: Estimating the cost of architectural solutions

Material and technical (software) ensuring course

AWS, GCP, Python, Visual Paradigm

Learning outcomes assessment system

The University uses a 100-point cumulative system for assessing the learning outcomes of higher education students. Current control is carried out during lectures, laboratory classes and is aimed at checking the level of readiness of the higher education student to perform specific work and is evaluated by the amount of points scored. The final control includes semester control, which is conducted in the form of an exam. The maximum possible number of points for the current control during the semester for the course in the form



of a test is 60 and the minimum possible number of points is 35. The current control includes the following control measures: defense of laboratory work, individual and group educational tasks, and tests. The maximum number of points for the exam is 40. The minimum number for the exam is 25.

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

Course policies

The teaching of the course is based on the principles of academic integrity. Violations of academic integrity are: academic plagiarism, fabrication, falsification, write-off, deception, bribery, 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 on competencies, learning outcomes, teaching methods, assessment forms, independent work is given in the Work program of the course.