Syllabus of the course
"System and business analysis in IT-industry"

Specialty	*121 "Software engineering"*
Study Programme	*121 "Software engineering"*
Study cycle	*the first (Bachelor) level of higher education*
Course status	*mandatory*
Language	*English*
Term	*second year, forth semester*
ECTS credits	*5*
Workload	*Lectures - 20 hours*
	Laboratory studies - 40 hour.
	Self-study - 90 hours
Assessment system	*Grading*
Department	*Information Systems Department, auditorium 413 (main building), (057) 702-18-31 (add. 4-37), http://www.is.hneu.edu.ua/*
Teaching staff	*Ushakova Iryna Oleksiivna, PhD in Economics , professor. Kotsyuba Vasyl Petrovich, PhD in Technics, associate professor*
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Course schedule	*From a valid class schedule*
Consultations	*According to the consultation schedule https://kafis.hneu.net/*

Learning objectives and skills:
provision of basic profiling training by profession, formation of theoretical knowledge and practical skills necessary for the use of the system approach, its principles and methods during the identification, analysis, specification, documentation and management of requirements for software systems

Prerequisites for training

Prerequisites	Postrequsites
Discrete math	Software engineering
Philosophy	IT project management
	Graduation project
	Comprehensive training
	Software quality and testing
	Designing the interface of software systems

Course content
Module 1. Basics of system analysis of the subject area
Topic 1. Introduction to system analysis.Topic
Topic 2. Concepts and regularities of system analysis.
Topic 3. Types of systems.
Topic 4. System analysis methodology.
Topic 5. Management of complex systems.
Module 2. Business analysis of requirements for software systems.
Topic 6. Requirements engineering.
Topic 7. Requirements management.
Topic 8. Object-oriented approach to the development of requirements.
Topic 9. Flexible development of requirements.
Topic 10. Documentation of requirements.

Teaching environment (software)
S. Kuznets PNS, Corporate Zoom system, Atlassian Confluence, Miro, Draw.io
Assessment system

Assessment of students' learning outcomes is carried out by the University according to the cumulative 100-point system.
 Current control is carried out during lectures and practical (seminar) classes and aims to assess the level of students' readiness to perform particular tasks, and is assessed by the amount of scored points.
 The maximum amount during the semester – 100 points; the minimum amount required is 60 points.
     Current control includes the following assessment methods: express assignments in lectures, protection of laboratory work; testing; presentations.
     More detailed information on assessment and grading system is given in the technological card of the course.

Course policies
Teaching of the academic discipline is based on the principles of academic integrity.   Violation of academic integrity includes academic plagiarism, fabrication, falsification, cheating, deception, bribery, and biased assessment.   Educational students may be brought to the following academic responsibility for breach of academic integrity: repeated assessment of the corresponding type of learning activity.   ***More detailed information about competencies, learning outcomes, teaching methods, assessment forms, self-study is given in the Course program***