The silhouette of the course

«*Analysis and Optimization of Enterprises' Business Processes*»

Specialty	*F6 Information systems and technologies*
Educational program	*Information systems and technologies*
Educational level	*Second (master's) level of higher education*
Status of the discipline	*Mandatory*
The language of teaching, learning and assessment	*English*
Year / semester	*1 year, 1 semester*
Number of ECTS credits	*5 credits*
Distribution of hours by forms of educational process and types of classes	*Lectures – 12 hours* *Laboratory classes – 28 hours* *Independent work – 110 hours*
Form of final control	*Exam*
Department	*Information Systems, room. 413 of the main building, +38(057)7021831, website of the department http://www.is.hneu.edu.ua/*
Teacher(s)	*Oleksii Besedovskyi, PhD in Economics, Associate Professor*
Contact information of the teacher(s)	*oleksii.besedovskyi@hneu.net, +380501403585 (Telegram)*
Days of training classes	*Lectutes: according to the current class schedule* *Laboratory classes: according to the current class schedule*
Consultations	*At the Department of Information Systems, full-time, part-time according to the consultation schedule, individual, chat in the PLS*

Objective of the discipline: formation of a system of theoretical knowledge and acquisition of practical skills and abilities in computer modeling of business processes; building models to describe the subject area; analysis of a business process development, its optimization to improve certain aspects of the company's activities.

Structural and logical scheme of studying the course

Prerequisites	Postrequisites
	Administration and quality management of business processes of IT enterprises
	Complex training
	Pre-diploma practice
	Diploma work

Content of the course

Content module 1 *Business processes of enterprises. General principles of their organization*
Topic 1. Theoretical basis of the business process modeling.
Topic 2. Business process modeling using various technologies
Content module 2 *Modeling and optimization of business processes in the BPMN methodology*
Topic 3. General principles of business process modeling in the BPMN methodology
Topic 4. Technology for using elements of the BPMN methodology to model business processes
Topic 5. Simulation of business processes

Material and technical (software) support of the course

Software: IBM Innov8, BizAgi Process Modeler, BPMN.io, BIMP
Multimedia equipment: projector, laptop/computer, Internet access.

Distance learning tools: Website of personal learning systems: https://pns.hneu.edu.ua. Library: http://library.hneu.edu.ua Repository: http://www.repository.hneu.edu.ua. University classrooms (Kharkiv, 9A Nauky Ave.).

Forms and methods of assessment

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.

Policies of the course

The teaching of the course is based on the principles of academic integrity. Violations of academic integrity include: academic plagiarism, fabrication, falsification, cheating, deception, bribery, and biased assessment. For violations of academic integrity, students are held to the following academic responsibility: re-assessment of the relevant type of academic work.

More detailed information on competencies, learning outcomes, teaching methods, forms of assessment, and independent work is provided in the Work Program of the course