

Simon Kuznets Kharkiv National University of Economics

## Syllabus of the course

«Me	thodologies of Scientific Research»
Specialty	122 Computer Science
Study Programme	Computer Science
Study cycle (Bachelor, Master, PhD)	The second (Master) level of higher education
Course status	Mandatory
Language	English
Term	First year, first semester
ECTS credits	5 credits
Workload	Lectures – 16 hours.
	Practical studies – 34 hours.
	Laboratory studies – 0 hours.
	Self-study – 100 hours.
Assessment system	Test
Department	Information System, Room 413 (Main Building), (057)702-18-31, <u>https://kafis.hneu.net/</u>
Teaching staff	Oleksandr Kolgatin, professor of the Information System Department, doctor of pedagogical science, PhD in low temperatures physics
Contacts	Oleksandr.Kolgatin@hneu.net
Course schedule	According to the schedule http://services.hneu.edu.ua:8081/schedule/selection.jsf
Consultations	According to the schedule of the Information System Department (chat PNS)
	Learning objectives and skills:
•	dview on issues of modern science and acquisition of skills in the formation technologies, information systems and publicly available
	entation of elements of scientific research as a component of
	ctural and logical scheme of the course
Prerequisites	Postrequsites

Structural and logical scheme of the course	
Prerequisites	Postrequsites
	Term Paper.
	Diploma Work

## **Course content**

Content module 1 Methods in computer science

Topic 1 Science as a Part of Universal Culture of Humanity

**Topic 2 Principals of Modelling** 

**Topic 3 Stochastic Models and Statistical Analysis** 

**Topic 4 Mathematical Methods for Information Model Analysis** 

**Topic 5 Model Verification and Simulations** 

Content module 2 Methodologies of scientific communication

**Topic 6 Sources of Scientific Information** 

**Topic 7 Basics of Scientific Documentation** 

**Topic 8 Scientific Conference Participation and Organisation** 

**Teaching environment (software)** 

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 auditoriums (Kharkiv, 9A Ave. Nauki)



## 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: assignments on a particular topic; testing; presentations, and essay writing.

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.

Education seekers 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