



Syllabus of the educational course
«Methodologies of Scientific Research»

Specialty	<i>122 "Computer Science"</i>
Educational program	<i>"Computer Science"</i>
Level of education	<i>Master</i>
Course status	<i>Obligatory</i>
Teaching language	<i>English</i>
Year of study / semester	<i>1 course / 2 semester</i>
Number of credits ECTS	<i>5</i>
Distribution by types of trainings and hours of study	<i>Lectures – 12 hours.</i>
	<i>Practical studies (seminars) – 28 hours.</i>
	<i>Laboratory studies – 0 hours.</i>
	<i>Independent training – 110 hours.</i>
Form of final assessment	<i>Pass</i>
Department	<i>Information System, Room 413 (Main Building), (057)702-18-31, https://kafis.hneu.net/</i>
Teacher (-s)	<i>Oleksandr KOLGATIN, professor of the Information System Department, doctor of pedagogical science, PhD in low temperatures physics</i>
Teacher's contacts	<i>Oleksandr.Kolgatin@hneu.net</i>
Days of the classes	<i>According to the schedule</i> <i>http://services.hneu.edu.ua:8081/schedule/selection.jsf</i>
Consultations	<i>According to the schedule of the Information System Department (chat PNS)</i>

The purpose of the course is formation of students' worldview on issues of modern science and acquisition of skills in the practical application of information technologies, information systems and publicly available resources for the implementation of elements of scientific research as a component of professional activity in the field of computer science.

Prerequisites for learning

Base training according to the requirements of the bachelor program in Computer Science

Content of the educational course

Content module 1 *Fundamentals of Scientific Research*

Topic 1 Science as a Part of Universal Culture of Humanity

Topic 2 Sources of Scientific Information

Topic 3 Basics of Scientific Documentation

Content module 2 *Scientific Community and ICT Tool for Scientific Communication*

Topic 4 Scientific Conference Organization

Topic 5 Scientific Conference Participation

Topic 6 Scientific Communities



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Material and technical support (software) of the course

(see personal training system)

**Course page on the Moodle platform
(personal training system)**

<https://pns.hneu.edu.ua/course/view.php?id=9524>

Recommended literature

1. Афанасьев А. О. *Основы научных исследований : навч. посібн. / А. О. Афанасьев, Є. В. Кузьмін. – Х. : Вид. ХНЕУ, 2005. – 96 с.*
2. *UNESCO Recommendation on Open Science (2021). PP. 17-18. URL : <https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en>*

Assessment system of learning outcomes

Minimal grading corresponds the reproductive level of learning material mastering. Maximal grading assumes the student creatively use obtained knowledge and skills in practical situations.

More detailed information on assessment is given in the technological card of the discipline.

Accumulation of rating points in the course

Types of training	Max points
Assessment	30
Completion of laboratory works and proof of their results	70
Max points	100

Discipline policies

The teaching of the course is based on the principles of academic integrity. Violations of academic integrity include: academic plagiarism, fabrication, falsification, copying, deception, bribery, or biased evaluation. Educational results obtained with violation of academic integrity cannot be accepted.

In the case of completing educational tasks later than the term set by the technological card without the serious reason, the maximum number of points for this task is reduced by 20%. If a student is absent from class due to valid circumstances, he receives an additional task or additional questions to complete the missed activity. Missed classes should be completed within a week.

More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan) of the educational course.

Syllabus approved at the meeting of the Department «Information Systems». Protocol №10 from
14.03. 2023