



Syllabus of the educational course
«Fundamentals of methodology and organization of scientific research»

Specialty	<i>126 "Information Systems and Technologies"</i>
Educational program	<i>"Information Systems and Technologies"</i>
Level of education	<i>Master</i>
Discipline status	<i>Obligatory</i>
Teaching language	<i>English</i>
Course / semester	<i>1 course, 2 semester</i>
Number of credits ECTS	<i>4</i>
Distribution by types of trainings and hours of study	<i>Lectures – 12 hours. Practical studies (seminars) – 0 hours. Laboratory studies – 28 hours. Self study – 80 hours.</i>
Form of final assessment	<i>Pass</i>
Department	<i>Information System, Room 412 (Main Building), (057)702-18-31, https://kafis.hneu.net/</i>
Teacher (-s)	<i>Oleksandr KOLGATIN, professor of the Information System Chair, doctor of pedagogical science, PhD in technical science</i>
Teacher's contacts	<i>Oleksandr.Kolgatin@hneu.net</i>
Days of the classes	<i>According to the schedule</i>
Consultations	<i>According to the schedule at the Information System Department, chat PNS</i>
<p>The purpose of the discipline: mastering the methodology, culture of communication and ethics of scientific research; acquisition of skills to assess the social significance of scientific results; acquaintance with specialized means of information technologies for the organization of scientific researches.</p>	
<p>Prerequisites for learning</p> <p><i>List of previously listened disciplines: Analysis and optimization of business processes of enterprises, Development and implementation of information systems, Management of information systems and data warehouses, Information system security</i></p>	
<p>Content of the educational discipline</p> <p>Content module 1 <i>Methods and tools of scientific communication</i></p> <p>Theme 1 Organizational structures of scientific communication</p> <p>Theme 2 Technologies for preparing scientific papers for publication</p> <p>Theme 3 Technologies for organizing scientific conferences</p> <p>Content module 2 <i>Methodology and socio-cultural significance of science</i></p> <p>Theme 4 Methodological approaches in scientific research</p> <p>Theme 5 Social significance of scientific results</p> <p>Theme 6 Ethics of scientific research</p>	
<p>Material and technical support (software) of the discipline <i>(see personal training system)</i></p>	
Course page on the Moodle platform (personal training system)	Under construction
<p>Assessment system of learning outcomes</p>	



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 discipline (example)

Types of training	Max points
Active work at lectures, test assessments	36
Completion of laboratory works and proof of their results	64
Exam	40
Max points	100

Discipline policies

The teaching of the discipline 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 discipline.

Syllabus approved at the meeting of the Department «Information Systems». Protocol №17 from June 10, 2022