



Syllabus of the educational discipline «Internet Programming»

Specialty	<i>121 "Software Engineering"</i>
Educational program	<i>Software engineering</i>
Level of education	<i>The first (Bachelor) level of higher education</i>
Discipline status	<i>Mandatory</i>
Teaching language	<i>English</i>
Course / semester	<i>3 year, 6 semester</i>
Number of credits ECTS	<i>5</i>
Distribution by types of trainings and hours of study	<i>Lectures – 24 hours.</i>
	<i>Practical studies (seminars) – 0 hours.</i>
	<i>Laboratory studies – 24 hours.</i>
	<i>Self-study – 102 hours.</i>
Form of final assessment	<i>Grading including Exam</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>Kolgatin O.: According to the schedule</i>
Consultations	<i>According to the schedule at the Information System Department, chat PNS</i>

The purpose of the discipline is forming competencies in the use of modern Internet programming tools and technologies for developing the server part of web applications.

Prerequisites for learning:

Object-Oriented Programming / Knowledge and skills in application program, skills to understand code.

Algorithms and Data Structures / Knowledge and skills in basics of algorithms and data structures

Content of the educational discipline

Content module 1 *Use of Python Internet programming tools*

Theme 1 Introduction to the Discipline

Theme 2 Basics of Network Programming in Python

Theme 3 Using Application Level Protocols in Python

Content module 2 *Basics of developing the server part of web applications based on the Django framework*

Theme 4 Basics of the Django framework

Theme 5 Object-Relational Data Representation

Theme 6 User Interface Building in Django



Material and technical support (software) of the discipline <i>(see personal training system)</i>	
Course page on the Moodle platform (personal training system)	https://pns.hneu.edu.ua/
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.	
Discipline policies The teaching of the discipline is based on the principles of academic integrity. Violations of academic integrity include: academic plagiarism, fabrication, falsification, write-off, deception, bribery, or biased evaluation. For violation of academic integrity, students are brought to the following academic responsibility: re-assessment of the relevant type of educational work	
<i>More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan) of the educational discipline</i>	

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