



SYLLABUS OF THE DISCIPLINE
Programming and Support of Web Applications
Component of the educational program - obligatory (4.0 credits)

Educational and professional program	Information technology and project management
Specialty	122 – Computer science
Field of knowledge	12 – Information technology
Level of higher education	first (bachelor's)
Language of instruction	English
Teacher's profile	Andrii Dorosh, PhD in Physics and Mathematics, Associate Professor of the Department of Mathematical Modeling https://mathmod.chnu.edu.ua/pro-nas/spivrobitnyky/dorosh-andrii-bohdanovych/
Contact tel.	+380372-58-48-25
E-mail:	a.dorosh@chnu.edu.ua
Course page in Moodle	https://moodle.chnu.edu.ua/course/view.php?id=8223

SUMMARY OF THE SUBJECT

The discipline aims to master the basic principles of designing websites and web applications, to teach PHP scripting server programming language, the basics of setting up the necessary software on a web server.

EDUCATIONAL CONTENT OF THE EDUCATIONAL COMPONENT

MODULE 1.	
Topic 1	Basics of PHP programming language
Topic 2	Working with MySQL database
Topic 3	Git version control system
Topic 4	Validation of data sent from a form. Regular expressions
MODULE 2.	
Topic 5	Hashing passwords in the database
Topic 6	Session and cookies
Topic 7	Uploading files to the server
Topic 8	Working with asynchronous requests using AJAX technology

FORMS, METHODS AND EDUCATIONAL TECHNOLOGIES

Teaching and learning methods: lectures, laboratory classes, e-learning using Moodle system, testing, completion of individualized learning tasks.

FORMS AND METHODS OF CONTROL AND EVALUATION

Types and forms of control:

1. Current (verbal questioning, problem solving).

2. Modular (tests, laboratory tasks).

Means of assessment: tests; team projects; analytical reports on laboratory work, individual tasks and independent work.

Final control: exam.

CRITERIA FOR ASSESSING LEARNING OUTCOMES

The learning outcomes assessment system is based on ECTS principles and is cumulative. During the semester, students complete laboratory tasks and test assignments, for which they can get up to 60 points. The final control in the discipline is an exam (40 points).

POLICY ON ACADEMIC INTEGRITY

Compliance with the policy on academic integrity by participants of the educational process in the study of the discipline is regulated by the following documents:

- ✓ Ethical Code of Yuriy Fedkovych Chernivtsi National University
<https://www.chnu.edu.ua/universytet/normatyvni-dokumenty/etychnyi-kodeks-chernivetskoho-natsionalnoho-universytetu-imeni-yurii-fedkovycha/>
- ✓ Regulations on Detection and Prevention of Academic Plagiarism at Yuriy Fedkovych Chernivtsi National University
<https://www.chnu.edu.ua/universytet/normatyvni-dokumenty/polozhennia-pro-vyavlennia-ta-zapobihannia-akademichnomu-plahiatu/>

INFORMATION RESOURCES

1. <http://php.net>
2. <http://www.w3schools.com/php/default.asp>
3. <https://www.codecademy.com/en/tracks/php>
4. <https://moodle.chnu.edu.ua/course/view.php?id=8223>