

The syllabus of the discipline  
***Web programming***

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Field name	Detailed content, comments
Name of the faculty	Faculty of Infocommunications
Level of higher education	First (bachelor's)
Code and name of the specialty	172 Telecommunications and radio engineering
Type and name of educational program	EPP "Information and Network Engineering"
Name of the discipline	Web programming
Number of ECTS credits	3
Discipline structure (distribution by types and hours of study)	20 hours - 10 lectures, 6 hours - 3 practical classes, 16 hours - 4 laboratory classes, 6 hours - 3 consultations, 42 hours - homework, <b>type of control:</b> credit
Schedule (terms) of studying the discipline	2nd year, IV semester
Prerequisites for studying the discipline	students must have basic knowledge of higher mathematics, disciplines "Databases"
Competences, knowledge, skills, understanding, which is acquired by the applicant in higher education in the learning process	The discipline is used to form the following competencies: Work with the graphic editor Adobe Photoshop; Use all possible Adobe Photoshop tools; Design a web - databases; Create databases and connect them to the server MySQL by PHP; Execute queries in SQL and process results.
The quality of the educational process	Educational-methodical and material-technical resource provision of the educational program, within the framework of which the discipline is studied, meets the licensing requirements and accreditation conditions of the educational activity of the university. Annual monitoring and revision of the curriculum of the discipline in accordance with the requirements and recommendations of the Ministry of Education and Science, state certification of acquired competencies of graduates, standards of cooperation with employers to ensure a competitive level of training. Adherence to the principles of academic integrity ( <a href="https://lib.nure.ua/plagiat">https://lib.nure.ua/plagiat</a> ). Contains public information on the requirements, competencies, level of education within the current educational program.

## **Description and content of the discipline**

The purpose of the discipline is to form a modern level of information and computer culture, to acquire practical skills in creating interactive technologies, to acquaint students with the theoretical foundations of creating hypertext documents based on HTML standards and PHP language; consideration of common Web programming technologies and their classification; acquaintance with the scope of various standards and means of creating Web - content; as well as acquiring skills of practical creation of Web - content by various means.

### **Content**

#### **Content module 1.**

Topic 1 Basics of WEB design

Topic 2. Artistic foundations of WEB design

Topic 3. Website design methodology

#### **Content module 2.**

Topic 1. Introduction to the dynamic content of web pages

Topic 2. Basics of PHP

Topic 3. PHP. Arrays and strings

Topic 4. PHP. Conditional operators.

#### **Content module 3.**

Topic 1. Integration of databases into a PHP document. Creating a database using PHP myAdmin

Topic 2. Integration of databases in PHP document. Basic database operations

### **Learning outcomes of higher education**

As a result of studying the discipline, students must:

know:

- Basics of Web-design;
- Gain full practical skills in Adobe Photoshop.
- Basics of PHP programming;

be able:

- Work with the graphic editor Adobe Photoshop;
- Use all possible Adobe Photoshop tools;
- Design web databases;
- Create databases and connect them to the MySQL server using PHP;
- Execute queries in SQL language and process results.

## Assessment system according to each task for passing the test / exam

To assess the work of a student during the semester, the final rating score  $Q_{\text{sem}}$  is calculated as the sum of marks for different types of classes and control activities.

Type of lesson / control measure	Rating
Lb № 1, 2	$(12...20) \times 2 = 18...40$
<b>Checkpoint 1</b>	<b>24...40</b>
Lb № 3, 4	$(12...20) \times 2 = 24...40$
Control testing 1	12...20
<b>Checkpoint 2</b>	<b>36...60</b>
<b>Total for the semester</b>	<b>60...100</b>

## Qualitative evaluation criteria in the national scale and ECTS

**Satisfactory, D, E (60-74).** Show the required minimum of theoretical knowledge. Know the ways and methods of solving practical problems and be able to use them in practice.

**Well, C (75-89).** Firmly know a minimum of theoretical knowledge. Demonstrate the ability to solve a practical problem and justify all stages of the proposed solution.

**Excellent, A, B (90-100).** Show complete knowledge of basic and additional theoretical material. Unmistakably solve a practical problem, explain and justify the chosen method of solution.

## Assessment scale: national and ECTS

The sum of points for all types of educational activities	ECTS assessment	Score on a national scale	
		for exam, course project (work), practice	for offset
90 – 100	<b>A</b>	perfectly	credited
82-89	<b>B</b>	fine	
74-81	<b>C</b>		
64-73	<b>D</b>	satisfactorily	
60-63	<b>E</b>		
35-59	<b>FX</b>	unsatisfactory with the possibility of reassembly	not credited with the possibility of re-assembly
0-34	<b>F</b>	unsatisfactory with mandatory re-examination	not credited with compulsory re-study of the discipline

## **Methodical support**

### Basic literature

1. Dzheison Berd. Veb-dyzain. Rukovodstvo razrabotchyka. — SPb.: Pyter, 2012.— 224 s.
2. Strykh, Yu Sovremennyi veb-dyzain. Эpokha Veb 3.0. 2-e yzd. -M.: 000 "Y.D. Vyliams», 2013. - 368 s.
3. Vellynh Tomson Razrabotka veb-prylozhenyi s pomoshchiu PHP y MySQL . - M.: 000 "Y.D. Vyliams», 2010. - 848 s.

### Supporting literature

4. Votroll Э. Yzuchaem. Veb dyzain – M.: Эksmo, 210 496 s.:

### Methodical instructions for different types of classes

5. Konspekt leksii z kursu «Web-prohramuvannia» dlia studentiv usikh form navchannia napriamu 6.050903 – Telekomunikatsii ” –Kh.: KhNURE, 2012 Elektronnyi variant.
6. Metodychni vkazivky do samostiinoi roboty ta praktychnykh zaniat z dystsypliny «Web-prohramuvannia» dlia studentiv usikh form navchannia napriamu 6.050903 – Telekomunikatsii Kh.: KhNURE, 2012 Elektronnyi variant.
7. Metodychni vkazivky do laboratornykh robit z dystsypliny «Web- prohramuvannia» dlia studentiv usikh form navchannia napriamu 6.050903 – Telekomunikatsii Kh.: KhNURE, 2012.

### Information support

8. Paket prohram Denwer
9. Adobe Photoshop