Syllabus of the educational discipline

« WEB DESIGN »

Cycle of Higher Education	*First cycle of higher education (Bachelor's degree)*
Field of Study	*12 Information Technologies*
Specialty	*123 Computer engineering*
Educational program	*Computer systems and networks*
Discipline status	*Compulsory*
Teaching language	*English*
Year of studies, semester	*2 year (4 semester)*
Number of credits ECTS	*4 credits*
Distribution by types of trainings and hours of study	*Lectures, Laboratory studies, Independent training*
Form of final assessment	*Test*
Teacher	*Korol Yu.Yu., associate professor of the department of computer systems and network*
Teacher's contacts	*yuriy.korol@uzhnu.edu.ua*
Course Schedule	*According to the timetable*

The purpose of the study discipline Web-design is to familiarize students with current trends in the Internet services, with the main standards of data exchange between applications and services on the Internet, with the basic rules of designing sites and services and practical learning methods and tools to create web-sites.

As a result of studying the discipline the student must:

know:

- subject and basic concepts of the course;

- principles of sites and services of the Internet;

- features of the design and implementation of software for the Web,

- semantics of the languages HTML5 and CSS3;

- design and implementation environment;

be able to:

- design and create complex websites using the capabilities of the HTML language to create Web pages; use CSS technology. Transfer layout from the design project to the development environment; use programs to support the development of user interfaces

Prerequisites for learning

Programming, System programming

Content of the educational discipline

Topic 1. Characteristics of web applications
Topic 2. Hypertext Markup Language(HTML)
Topic 3. Formatting Tags
Topic 4. Page layout features
Topic 5. Graphical editor Figma
Topic 6. Zeplin Development Environment
Topic 7. Basic concepts of cascading style sheets
Topic 8. CSS Selectors
Topic 9. The concept of string elements
Topic 10. The concept of block elements, their features
Topic 11. CSS Flexbox
Topic 12. CSS Grid Layout
Topic 13. Sending data using forms

Course page on the Moodle platform (personal training system)	*Syllabus of the educational discipline, hyperlinks to electronic publications of the discipline, recommended literature, students' attendance, lecture materials, presentations, questions for self-control, methodical materials for laboratory works, tests, tasks for*

	checking students' knowledge. https://moodle.uzhnu.edu.ua

Recommended literature

1. *Jakob Nielsen Designing Web Usability. - New Riders Pub; 1st edition, 1999. - 300p.*
2. *Robin Nixon Web Developer's Cookbook. - McGraw Hill; 1st edition, 2012. - 1544p*
3. *Semmy Purewal Learning Web App Development: Build Quickly with Proven JavaScript Techniques. - O'Reilly Media; 1st edition, 2014. - 306p.*

Assessment system of learning outcomes

The ECTS grade that a student receives after studying a credit module of a discipline is determined according to the student's rating. A student's credit module rating consists of the points the student receives during the semester for the following types of work:

1. Modular control work (MCW) duration of 2 acad. hours each. The maximum number of points for the MCW is 50 points.

2. Performance of laboratory works.

During the semester, students perform laboratory works(maximum number of points - 40)

Scores on individual and independent work of students are awarded for: preparation of essays, modernization of tasks, creative approach to task performance, performance of tasks to improve didactic materials on the discipline: 0-10 points for each module.

Each module is assessed a maximum of 100 points. At the end of the discipline a rating score is derived as the arithmetic average of the points from the two modules.

ECTS and national grading scale

<table>
<tr><th>Mark scale</th><th>ECTS</th><th>Exam</th><th>Test</th></tr>
<tr><td>90 - 100</td><td>A</td><td>Excellent</td><td rowspan="5">Satisfied</td></tr>
<tr><td>82 - 89</td><td>B</td><td rowspan="2">Good</td></tr>
<tr><td>74 - 81</td><td>C</td></tr>
<tr><td>64 - 73</td><td>D</td><td rowspan="2">Satisfactory</td></tr>
<tr><td>60 - 63</td><td>E</td></tr>
<tr><td>35 - 59</td><td>FX</td><td>“Unsatisfactory” with possibility to pass the exam again</td><td>“Not satisfied” with possibility to pass the exam again</td></tr>
<tr><td>1 - 34</td><td>F</td><td>“Unsatisfactory” with obligatory repeated study of the discipline</td><td>“Not satisfied” with obligatory repeated study of the discipline</td></tr>
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