

DESCRIPTION OF THE STUDY SUBJECT

Title

| |
|------------------------------|
| INTERNET TECHNOLOGIES |
|------------------------------|

Scope of the subject

| Semester | Mode of studies | Structure* | | | | Total number of hours | Number of credits | Group and type of subjects |
|----------|-----------------|------------|----|----|----|-----------------------|-------------------|--|
| | | L | Lw | C | S | | | |
| III | Full-time | 16 | 50 | 12 | 84 | 162 | 6 | Compulsory subjects of the study field |
| III | Part-time | 6 | 30 | 42 | 84 | 162 | 6 | |

*L – lectures, PS – practical activities, seminars, LW – laboratory work, PR – practice, CP – course paper, C – consultations, S – self-study

Aim of the subject

To know and understand W3C requirements for websites, principles of website design, search engine optimization (SEO). To know the syntax of HTML, CSS, JavaScript languages and be able to independently design, develop and test web sites and place on a remote server. To be able to develop websites using content management system (CMS).

Necessary background knowledge for studying the subject

Students shall have heard the subject graphic design.

Content of the subject

| Title of the topic and description of the content | Number of contact hours | | | S | Total number of hours |
|---|-------------------------|-----------|-----------|-----------|-----------------------|
| | L | Lw | C | | |
| W3C requirements for web sites, website design, search engine optimization (SEO). Correspondence of a website to W3C HTML standards, testing and placement on a remote server. | 2 | - | - | - | 2 |
| Laboratory works: description of the structure of the HTML document, headings, paragraphs, links, images, tables, lists, labels with explanations, horizontal lines. HTML5 standard. | - | 8 | 2 | 10 | 20 |
| Test No.1 | 2 | - | 1 | 2 | 5 |
| 2. Customization of the CSS language for the development of the website design. Testing of correspondence of the website to W3C CSS standards and placement on a remote server. | 2 | - | - | - | 2 |
| Laboratory works: different kinds of styles of CSS, selectors, parameters of font, text, links, tables, lists. Pseudo-class, pseudo-elements, frames, margins, positions. CSS3 standard. | - | 10 | 2 | 10 | 22 |
| Test No.2 | 2 | - | 1 | 4 | 7 |
| 3. Basics of JavaScript. | 3 | - | - | - | 3 |
| Laboratory works: forms, constants, variables, arrays, conditional sentences, cycles, DOM (for work with forms). | - | 10 | 1 | 14 | 25 |
| Test | 2 | - | - | 2 | 4 |
| 4. Development of a modern and dynamic website using the content management system (CMS). | 3 | - | 1 | 18 | 22 |
| Project preparation and defence. To prepare the technical task for the development of a website and to develop a modern and dynamic website using HTML, CSS, Javascript languages or free content management system (CMS). To test correspondence of a website to W3C HTML standards and place on a remote server. | - | 22 | 4 | 24 | 50 |
| Total number of hours | 16 | 50 | 12 | 84 | 162 |

Assessment of learning outcomes

Ten-point criteria-based assessment system as well as cumulative assessment using individual cumulative index (ICI) are applied. The overall grade is the sum of grades for intermediate accountings and project (PR) multiplied by weighted coefficients.

ICI = 0,1 T + 0,2 Lw + 0,2 CT + 0,5 PR, where T - test, Lw – laboratory works, CT – control tests.

Recommended literature

| Key literature | | | | | | |
|-----------------------|--------------------|---|---|---------------------------------------|----------------|-------------------|
| No. | Year of publishing | Author(s) and title of the publication | Publishing house | Number of copies and/or internet link | | |
| | | | | ŠSC library | Other premises | Other libraries * |
| 1. | 2011 | Jusas S. Praktiškas CSS pradžiamokslis | Smaltija | 2 | - | 6 |
| 2. | 2009 | Vidžiūnas A., Vitkutė D. Interneto paslaugos ir svetainių kūrimas | Smaltija | 3 | - | 3 |
| Additional literature | | | | | | |
| No. | Year of publishing | Author(s) and title of the publication | Publishing house and/or internet link | | | |
| 1. | 2015 | Harwani B., .Foundation Joomla!: [design, create, and administer your own website in no time] | Apress | | | |
| 2. | 2015 | McPeak J., Wilton P. Beginning JavaScript | John Wiley & Sons | | | |
| 3. | | | | | | |
| 4. | 2013 | Stephanie Leary. WordPress for Web Developers. | Elektroninis išteklius | | | |
| 5. | 2012 | E. Robson, E. Freeman Head first HTML and CSS. | O'Reilly | | | |
| 6. | 2011 | Ch. Schmitt. CSS kalba ir pakopiniai stiliai profesionalams. | O'Reilly | | | |
| 7. | | Complete Link Building by SEO Firm for High Ranking and High Traffic | http://www.100seotips.com | | | |
| 8. | | The World's largest web developer site. | http://www.w3schools.com | | | |
| 9. | | Trending in Programming. | https://www.scribd.com/books/Computers-Technology/Programming | | | |

* ŠAVB – Šiauliai Region Povilas Višinskis Public Library, ŠU – library of Šiauliai University

Required material resources and their short description

- **Equipment (devices):** computers (16 units), computers connected to the local network and connected to the Internet, multimedia projector, printer
- **Software:** Notepad++, FileZilla, IrfanView, Joomla or another open-source TVS, WampServer.

The description prepared by:

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