

## DESCRIPTION OF PRACTICE

### Title

**PRACTICE OF GRAPHIC DESIGN AND PROGRAMMING**

### Scope of the subject

Semester	Mode of studies	Structure*		Total number of hours	Number of credits	Group and type of subjects
		PR	S			
III	Full-time	120	40	160	6	Compulsory subject (practice) of the study field
IV	Part-time	120	40	160	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 design a graphic design of a website, to develop a website with a database.

### Necessary background knowledge for studying the subject

Students shall have heard subjects programming, database management systems, online technologies, graphic design.

### Content of the subject

The assignment and description of activities	Number of contact hours	S	Total number of hours
1. The analysis, assessment and conclusions of graphic design solutions of similar websites.	8	4	12
2. Assessment of the selected website customer's needs. Analysis and assessment of the customer's corporate style. Drawing up the content of the website.	8	2	10
3. Solution of the website graphic design and communication (at least 4 hierarchical levels). Coherence of graphic, colour, navigational consistency. Static, dynamic and audio elements on the designed website.	30	4	34
4. To perform the analysis of alternatives and select programming languages, database management system, online website development technologies, necessary for realisation of the developed website project.	20	4	24
5. To project various information security techniques, means of their implementation in selected programming languages, website development technologies, the database management system.	10	4	14
6. To develop a source code of a program(s), to use object-oriented programming principles and structures (classes, class methods, constructors, modifiers, inheritance, encapsulation, polymorphism), various web technologies (JavaScript, jQuery, AJAX, etc.), the database management system in website development.	36	8	46
7. To prepare a practice report.	2	12	14
8. Preparation of a website presentation, maintaining corporate style of the enterprise.	2	2	4
<b>Defence of the practice report</b>	4	-	4
<b>Total number of hours</b>	<b>120</b>	<b>40</b>	<b>160</b>

### Assessment of learning outcomes

Ten-point criteria-based assessment system is applied. The final mark (FM) of the practice consists of the sum of marks for performance of practice assignments (PPA), for practice report (PR) and for the defence of the report (DR), multiplied by weighted coefficients.  
 $ICI = 0,6 PPA + 0,2 PR + 0,2DR.$

### Recommended literature

Key literature						
No.	Year of publishing	Author(s) and title of the publication	Publishing house	Number of copies and/or internet link		
				ŠSSC library	Other premises	Other libraries *
1.	2013	Jarašienė G. Grafinio dizaino pagrindai	Terra Publica	1	-	8
2.	2010	Dobner D. Grafinio dizaino mokykla: grafinio dizaino teorija ir elektroninė leidyba	Žara	5	-	-
3.	2008	Sinkevičius S. PHP 5 pradmenys	Smaltija	3	-	18
4.	2007	Julie Mezony, PHP, MySQL ir Apache	Smaltija	1	-	22

Additional literature			
No.	Year of publishing	Author(s) and title of the publication	Publishing house and/or internet link
1.	2015	Milašauskas S. Objektinio programavimo dalyko kompediumas	
2.	2014	Horton I. Beginning Visual C++ 2013	John Wiley & Sons, Indianapolis
3.	2011	Daniliauskas T., Kapočius K., Butleris R. Duomenų bazių programavimas Microsoft SQL Server priemonėmis	Technologija
4.	2010	Bakutienė V., Palepšaitis S., Sluckuvienė Z. Studijų darbų techninė dokumentacija	Šiaulių valstybinės kolegijos leidykla
5.	2009	Vidžiūnas A. Vitkutė D. Interneto paslaugos ir svetainių kūrimas.	<i>Smaltija</i>
6.	2008	Vidžiūnas A. C++ ir objektinis programavimas: programuotojo vadovas	Smaltija
7.	2008	Blonskis J., Bukšinitis V. ir kt. Programavimas C++	Technologija
8.	2007	Kent Lynette. Photoshop CS6 vaizdžiai : 100 populiariausių temų : patarimai ir gudrybės	VDA leidykla
9.	2007	Brown, Daniel M. Communicating design : developing Web site documentation for design and planning	Peachpit Press

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

#### Practice organisation procedure and description of the workplace

Practice is carried out in the college, in the programming laboratory. The necessary requirements for hardware and software of the laboratory:

- **Equipment (devices):** computers (16 units), computers connected to the local network and connected to the Internet, multimedia projector, printer, graphic tablets, scanners.
- **Software:** Windows 10 or later, PHP editor and script interpreter *NuSphere PhpED*, MS Visual C ++ in 2010 or later, Adobe Photoshop Extended CC, InDesign CC, Illustrator CC, Flash CC, Flash Builder CC, CorelDraw X6 or later versions.

#### The description prepared by:

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