

## DESCRIPTION OF PRACTICE

### Title

<b>PRE-GRADUATION PRACTICE</b>
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### Scope of the subject

Semester	Mode of studies	Structure*		Total number of hours	Number of credits	Group and type of subjects
		PR	S			
VI	Full-time	180	60	240	9	Compulsory practice of the study field in the enterprise
VIII	Part-time	180	60			

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

### Aim of the subject

To acquire skills for preparation of large-scale projects, to prepare for the creation of the final project.
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### Necessary background knowledge for studying the subject

Students shall have heard all subjects of the study field and specialisation.
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### Content of the subject

The task and description of activities	Number of contact hours	S	Total number of hours
	PR		
<b>Specialisation: Groupware systems</b>			
1. To perform the analysis of the need for creation of new groupware systems in the enterprise or for modernisation of existing ones.	30	10	<b>40</b>
2. Will prepare manuals for administrators, users of designed (modernized) groupware systems.	30	10	<b>40</b>
3. To submit the description of software and hardware information security measures for the designed (modernized) groupware system.	20	10	<b>30</b>
4. To prepare the description of the design of the groupware system.	40	10	<b>50</b>
5. To prepare the description of installation stages and conditions for the design of the groupware system.	30	10	<b>40</b>
6. To prepare the practice report and presentation according to given requirements.	26	10	<b>36</b>
<b>Specialisation: Design, installation and maintenance of computer networks</b>			
1. To analyse computer network of the enterprise / institution and assess hardware and software of the network. <i>To find out the number of computerised workstations in the network of the enterprise / institution, employed network operating systems (servers), configured network services, customer service in the network, what kind of data are used in the network and how they are transmitted in the network, network configuration peculiarities, employed active network equipment, its parameters, possibilities, configuration.</i>	36	10	<b>46</b>
2. To modernise computer network of the enterprise / institution. <i>To submit the offer of network modernization, based on changes in the configuration of hardware, changes and configuration of the very software, considering the needs of the enterprise / institution, load, importance and priority of transmission of data, status and possibilities of active network equipment.</i>	44	10	<b>54</b>
3. To optimize network operating systems and resource access as well as network operating systems. <i>To submit the offer of installation of services of the network operating system, which would facilitate sharing of data in the local and (or) in global network.</i>	36	14	<b>50</b>
4. To evaluate changes in operational efficiency of computer network after upgrading. <i>To submit the description of substantiation of network upgrading, which would facilitate sharing of data in the local and (or) global network, to evaluate changes in the efficiency of computer network operation.</i>	34	16	<b>50</b>
5. To prepare the practice report and presentation according to given requirements.	26	10	<b>36</b>

The task and description of activities	Number of contact hours	S	Total number of hours
	PR		
<b>Specialisation: Programming for smart devices</b>			
1. To perform the analysis of information systems for programming for smart devices in the enterprise / institution.	20	8	<b>28</b>
2. To design, implement and install a mobile application. 3. To prepare the specification for the graphical application that would show what images are projected on the screen of the smart device and how they should change each other depending on the user's mock-up. To implement the design of the mobile application for Android and / or iOS operating system (s). To add the mobile application to AppStore, Goole Play or other repositories, organize their distribution process.	110	32	<b>142</b>
4. To prepare the description of the user of the mobile application.	20	10	<b>30</b>
5. To prepare the practice report and its presentation according to given requirements.	26	10	<b>36</b>
<b>Defence of the practice report</b>	<b>4</b>	<b>-</b>	<b>4</b>
<b>Total number of hours</b>	<b>180</b>	<b>60</b>	<b>240</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 the discipline of doing practice (DP), for performance of practice tasks evaluated by the practice supervisor of the enterprise (PSE), for performance of practice tasks evaluated by the practice supervisor of the college (PSC), for practice report evaluated by the practice supervisor of the enterprise (RPSE), for practice report evaluated by practice supervisor of the college (RPSC), for the defence of the report (DR), multiplied by weighted coefficients.  
 $FM = 0,3 DP + 0,3 (PSE + PSC) / 2 + 0,2 (RPSE + RPSC) / 2 + 0,1 DR$

#### Recommended literature

No.	Year of publishing	Author(s) and title of the publication	Publishing house and/or internet link
1.	2015	Nixon R. Learning PHP,MySQL & JavaScript with JQuery	O'Reily Media
2.	2015	Kaklauskas L. Nuotolinis kursas „Baigamoji praktika“	<a href="http://moodle.svako.lt">http://moodle.svako.lt</a>
3.	2013	Kalali, M., Mehta B. Developing RESTful Services with JAX-RS 2.0, WebSockets, and JSON.	Packt Publishing
4.	2011	Layon, K. The Web Designer's Guide to iOS Apps: Create iPhone, iPod touch, and iPad apps with Web Standards	New Riders
5.	2010	Bakutienė V., Palepšaitis S., Sluckuvienė Z. Studijų darbų techninė dokumentacija	Šiaulių kolegijos leidybos centras
6.	2009	Goldberg K. H. XML, Second Edition	Peachpit Press

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

- Practice is done in the enterprise, which operates computer network and where applied software is intended for computerisation of work of divisions (division) of the enterprise. The company shall be interested in modernisation of the operated computer system or in the creation of a new one. The trainee shall be given a computerised workstation in the enterprise.

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