

FACULTY OF ENGINEERING STUDY COURSE DESCRIPTION

Course Title:	Web technologies and secure websites							
Course code (LAIS):	The course will be registered in the study administration system after accreditation							
Study programme:	Information technology							
	\boxtimes	1st level p	orofessional hi	igher education				
Level of Study programme:	\boxtimes	Profession	nal Bachelor					
		Profession	nal Master					
		Academic	Master					
		PhD level						
			ory course (Pa	rt A)				
Type of Study programme				tion courses (Part	B, compulsory)			
Type of Study programme:					ses (Part B, optional)			
		Elective c	ourses (Part C					
Course Workload		Credits	ECTS	Academic	Contact hours	Independent		
Course Workload:		4	6	hours 160	64	work hours 96		
	Ma	ija Sedlenie	_	100	04	90		
			Mg.Sc.Comp.					
Course Author/ Tutor:			edleniece@va.					
				e schedule for eac	ph samastar			
Study Form:		time studie		e schedule for eac	on semester			
				st study year, 2 nd				
Study year, semester:				study year, 2"	semester			
Language:	Lat	vian/English	1					
Prerequisites for the Course:								
			•		e students with Web ted	0		
		-			sing HTML, JavaScript	, PHP and MySQL		
Course Summary:	data	base as wel	l as content m	nanagement syster	ns.			
course summary.	Dur	ing the stud	ly course, an	understanding of	f the operating principl	es of programming		
	frameworks (vue.js or others) and the advantages of using a content management system							
	(Drupal or others) in the implementation of various projects is also provided.							
	Exam							
Assessment: Independent study of literature on lecture topics, practical works, group work						p work - practical		
	real	realization of the project, presentation of group work.						
	All practical works must be submitted within the specified deadlines.							
	2. Must receive a positive evaluation for group work-project.							
	3. Must pass the exam.							
	1							
	The final assessment consists of:							
D	The limit assessment consists of							
Requirements for Credits:	Active participation in lectures and practical work 50/							
	• Active participation in lectures and practical work – 5%							
	Individual assessment in practical works - 50% Region 1 - 2006 Region 1 - 2006 Region 2 - 2006 Region 3 - 2006 Region 2 - 2006 Region 3 - 2006 Regi							
	 Practical implementation and presentation of group work - 30% 							
	• Exam - 15%							
	Students must abide by the academic and research ethics, Vidzeme University of Applied							
	Sciences Ethics Regulations, incl.:							
	Scie		-	incl.:				
	Scie	study paper	rs must be ind	incl.: ependently devel				
Abiding by the Academic		study paper the study v	rs must be ind vork should re	incl.: ependently devel- eference all state	oped; ments, ideas and data u	used that have been		
Abiding by the Academic Ethics	_	study paper the study v authored by	rs must be ind vork should re y someone else	incl.: lependently devel- eference all states e;	ments, ideas and data t			
	_	study paper the study v authored by appropriate	rs must be ind work should re y someone els e data acquisit	incl.: lependently development all states e; tion methods sho		uisition of data, the		



	 the examination must be carried out by the student independently, without the use of supporting materials and/or consultations with other students, unless the lectures states otherwise. 				
	In the event of non-compliance with the academic and research ethics, punishment is imposed in accordance with the ViA Ethics Regulations and the study course must be re taken, unless the punishment is exmatriculation.				
	Learning Outcomes	The evaluation methods and criteria			
	Knowledge				
	Understanding the world wide web architecture	Tests/Practical works			
	Understanding of the use and application of various web technology tools	Practical works			
	Skills				
Learning Outcomes, the					
Learning Outcomes; the evaluation methods and	Able to independently develop websites				
evaluation methods and criteria	using an open source content management	D (: 1 1/C 1			
criteria	system (Drupal or other), HTML, CSS,	Practical work/Group work			
	Bootstrap, Javascript, PHP, MySQL.				
	Can use the vue.js framework in the	D (1 1			
	development of web solutions	Practical work			
	Competency				
	Able to independently apply various web	Practical work/Group work			
	technology development tools				
	Able to analyze and navigate the application	Tests/Practical work			
	of various web technologies				
	https://www.w3schools.com/html/default.asp				
	https://www.w3schools.com/css/default.asp				
Course Compulsory	https://www.w3schools.com/bootstrap4/default.asp				
literature:	https://www.w3schools.com/php/default.asp				
merature:	http://www.php.net/				
	https://vuejs.org/				
	https://www.drupal.org/				
	https://www.w3.org/Style/CSS/http://www.w3.org/XML/ http://www.webreference.com/javascript/reference/core/index.html				
Course additional literature:	http://www.php.net/				
	https://www.mysql.com/				
	https://www.mysqi.com/glossary/content-management-system-cms/				
Course confirmation date:	08.12.2022				
Date of course description					
update:					

Study Course Plan:

		Acade	mic hours	Study Form/
Date	Theme	Contact hours	Independent work hours	Organization of independent work of students and task description
The date is specified before the	Introduction to Internet and Web Technologies. Website Development - Content Management Systems.	4	4	Lectures/ Practical work



implementation of the course	Introduction to HTML and CSS			
	Design. Bootstrap framework	4	4	Lectures/ Practical work
	Introduction to PHP	4	6	Lectures/ Practical work
	Practical use of PHP. Creating	4	6	Lectures/ Practical work
	dynamic input forms.			
	PHP and DB collaboration.	4	6	Lectures/ Practical work
	Programming frameworks. Safety.			
	Sessions. File upload. Comparison of input forms and existing data in DB.	4	6	Lectures/ Practical work
	PHP cookies	4	4	Lectures/ Practical work
	Using Javascript in the development of web solutions.	4	6	Lectures/ Practical work
	AJAX, XML vs JSON, Vue.js framework	6	6	Lectures/ Practical work
	Domain registrar. Good practice in programming. Insight into KeystoneJS	4	6	Lectures/ Practical work
	Drupal content creation and management	4	4	Lectures/ Practical work
	Drupal site configuration	4	4	Lectures/ Practical work
	Using paragraphs in the Drupal content management system	4	4	Lectures/ Practical work
	Drupal language support	4	4	Lectures/ Practical work
	Developing and defending group	4	24	Practical group work and
	work			presentation
	Exam	2	2	Test
	Hours total:	64	96	