

COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code	
Software Development Process		
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Academic staff	Core academic unit(s)
Coordinating: Mykolas Okulič-Kazarinas	VU Šiauliai Academy
Other:	

Study cycle	Type of the course unit
First cycle studies	Compulsory

Mode of delivery	Semester or period when it is delivered	Language of instruction	
Distance, auditorium	5 semester	English	

Requisites					
Prerequisites:	Co-requisites (if relevant):				
UML, programming skills					

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	134	48	86

Purpose of the course unit					
BK1 Application of knowledge					
BK2 Social skills					
BK3 Personal abilities					
DK1 Application of knowledge of	application systems				
DK2 Ability to research programmer	ne systems				
DK3 PS Special abilities					
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods			
Knowledge of project management	Interactive lectures,	Examination			
methods, their application in creating	Information search,				
computer programs, programming	Literature reading.				
methodologies, and life cycle stages of					
information systems.					
Will be able to select and use appropriate	Interactive lectures,	Presentation and defence of			
modern application development process	Information search,	group work results			
models, methods and tools that ensure	Literature reading,				
mature development and maintenance of	Independent work,				
application systems.	Consultations,				
	Group project.				

	Contact hours					In		Individual work: time and assignments	
Content	Lectures	Tutorials	Seminars	Workshops	Laboratory work	Internship	Contact h total	Individual work	Tasks for individual work
1. Project management, waterfall	4				4		8	20	Group work
method									presentation. Exam.
2. Concept of application systems	2				2		4	10	Group work
development process									presentation. Exam.
3. Project management, Agile	8				8		16	24	Group work
methodology, Scrum, Kanban									presentation. Exam.
4. Programming methodologies	2				2		4	10	Group work
									presentation. Exam.
5. Life cycle model of software	8				8		16	24	Group work
systems, its stages									presentation. Exam.
Total	24				24		48	86	

Assessment strategy	Weight	Deadline	Assessment criteria
Defence of group work	50 %	Three times during	The assignment is presented in the first week of
results		the semester	studies; students independently create working
			groups and choose the systems to be designed. It is
			carried out in stages by supplementing the project
			with chapters discussed in the lectures.
			The following aspects of work are evaluated:
			 Documentation consistency.
			• A description of each stage of the application systems life cycle is evaluated separately.
			• A critical approach in choosing project
			methodologies is valued.
Examination	50 %	During the exam	The exam test in the Moodle environment consists
		session	of closed-type questions.

Author (-s)	Publishing year	Title	Issue of a periodical or volume of a publication	Publishing house or web link
		Required readi	ng	
Prudhomme, G.	2020	Systems, Software and		Arcler Press
		Services Process		
		Improvement		
OMG	2011	Business Process		http://www.omg.org/s
		Model and Notation		pec/BPMN/2.0/
		(BPMN) V. 2.0		-
		Recommended rea	nding	·
ISO/IEC	2020	ISO/IEC 12207		https://standards.ieee.
		Information technology		org/standard/12207-2-
		– Software life cycle		2020.html
		processes		
ISO/IEC	2013	ISO/IEC 15504		https://www.iso.org/st
		Information technology		andard/61492.html
		– Software process		
		assessment,		
		Parts 1–9		