



### COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Management of Software Projects	

Academic staff	Core academic unit(s)
Coordinating: dr. V. Giedrimas  Other:	Vilnius University Šiauliai Academy

Study cycle	Type of the course unit
First cycle	Mandatory

Mode of delivery	Semester or period when it is delivered	Language of instruction
Auditorium	5th semester	Lithuanian/ English

Requisites	
Prerequisites:	Co-requisites (if relevant):

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	133	56	77

Purpose of the course unit
<p>To reveal to students the principles of program system project management. The study of the subject is based on the premise that successful management of software development projects is inseparable from comprehensive application systems engineering and application systems management. Cultivated competences:</p> <ul style="list-style-type: none"> <li>• BK1 Application of knowledge</li> <li>• BK2 Social skills</li> <li>• BK3 Personal abilities</li> <li>• DK1 Application of knowledge of program systems</li> <li>• DK2 Abilities to conduct program system research</li> </ul> <p>DK3 PS Special Abilities</p>

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Knows the principles and features of program system project management.	Case analysis (case studies), Work in groups, Interactive lecture, Laboratory work	Exam, Group homework
Will be able to plan the implementation processes of software projects, organize and control them.	Case analysis (case studies), Work in groups, Interactive lecture	Exam, Group homework
Will be able to manage project time, costs, allocate resources, manage risks, ensure quality.	Case analysis (case studies), Work in groups, Group (team) project, Interactive lecture	Exam, Group homework

Content	Contact hours							Individual work: time and assignments	
	Lectures	Tutorials	Seminars	Workshops	Laboratory work	Internship	Contact hours, total	Individual work	Tasks for individual work
Concepts of project and its management. Peculiarities of software system development and implementation projects.	2				0		2	6	Exam
Management of application systems life cycle models	2				4		6	6	Work in groups, laboratory work, exam
Planning and management of project conditions and factors: time, cost, resource, risk, quality management.	2				4		6	10	
Human resources management	2				4		6	10	
Teamwork in the execution of the program systems project.	4				4		8	10	
Methods of organizing and executing software system projects. Execution of works according to the plan.	2				4		6	10	
Project changes, quality. risk management, project progress control. Completion of the project.	4				4		8	8	
Iterative and agile project management methods.	4				6		10	8	
International standards for quality management of software systems	2				2		4	9	
<b>Total</b>	<b>24</b>				<b>32</b>		<b>56</b>	<b>77</b>	

Assessment strategy	Weight %	Deadline	Assessment criteria
Defense of laboratory work	20%	Every second week	Laboratory works and their defense are evaluated. A total of 4 laboratory works
Presentation of group work results	40%	4 times per semester	<p>It is given in the first week of studies and is carried out in stages.</p> <p>The following aspects of work are evaluated:</p> <ol style="list-style-type: none"> <li>1. The appropriateness of the distribution of the tasks of the software project and the level of control over their performance.</li> <li>2. Quality of the program project budget and its control.</li> <li>3. The intensity of cooperation in the group and its influence on the final result of the project.</li> <li>4. Use of quality management standards of international program systems during project execution.</li> </ol>
Exam	40%	During the exam session	The exam test in the Moodle environment consists of 20 open and closed type questions, each graded with half a point. The grade of the exam is equal to the sum of the collected points.

<b>Author (-s)</b>	<b>Publishing year</b>	<b>Title</b>	<b>Issue of a periodical or volume of a publication</b>	<b>Publishing house or web link</b>
<b>Required reading</b>				
Maciaszek LA, Liong BC	2005	Practical software engineering: a case study approach.		Pearson/Addison Wesley
<b>Recommended reading</b>				
Richardson GL.	2010	Project management theory and practice		Auerbach Publications,
Hughes, R.	2013	Agile data warehousing project management: business intelligence systems using Scrum and XP		Morgan Kaufmann,