



COURSE UNIT DESCRIPTION

Course unit title	Course Unit Code
Project Management	PMPV7124

Dėstytojas (-ai)	Department where the course unit is delivered
Coordinator: dr. Giedrius Slivinskas Other lecturers: -	Vilnius University, Faculty of Mathematics and Informatics, Department of Software Engineering; Didlaukio gt. 47, LT-08303 Vilnius

Cycle	Level of course unit	Type of the course unit
2 nd (MA)	-	Compulsory for students of the Software engineering study program

Mode of delivery	Semester or period when the course unit is delivered	Language of instruction
Face-to-face	Autumn semester, first year of study	Lithuanian

Prerequisites and corequisites	
Prerequisites: Requirements Engineering	Corequisites (if any): -

Number of ECTS credits allocated	Student's workload	Contact hours	Individual work
6	160	66	94

Purpose of the course unit: programme competences to be developed		
<p>To increase knowledge about software development project management, project scope, cost, time and risk management, Lean and Agile software development frameworks, internal and external communication, teamwork, leadership, and project management tools.</p> <p>Develop capabilities to plan and manage software development and implementation projects, evaluate software project management methodologies and frameworks, evaluate and solve project situations, understand how software development relates to other activities within an organization.</p>		
Learning outcomes of the course unit: students will be able to	Teaching and learning methods	Assessment methods
Plan and manage software development and implementation projects.	Lectures, problem-oriented teaching, case studies, information retrieval, reading of literature, individual work, tutorials, laboratory work	Course tasks and results presentation, written exam (open, semi-open and close-ended questions and tasks).
Evaluate software project management methodologies and frameworks, evaluate and solve project situations, understand how software development relates to other activities within an organization.		
Clearly present a selected topic, summarize key points, express opinions, present arguments	Information retrieval, reading of literature, report preparation and presentation at the seminar, group discussion, demonstration	Presentation material, oral presentation, answers to oral questions

Course content: breakdown of the topics	Contact hours							Individual work: time and assignments	
	Lectures	Tutorials	Seminars	Practice	Laboratory work	Practice	Contact hours	Individual work	Assignments
1. Project management, Lean and Agile frameworks trends.	3		1				4	4	Perform a course assignment. Analyze situations presented in lectures. Self-study literature.
2. Project portfolio and project evaluation methods.	2	1	1				4	8	
3. Project scope, cost, time, and risk management.	4	1	4				9	8	
4. Lean and Agile software development frameworks. Scaled Agile.	6	1	4				11	16	
5. Communication management: stakeholders, feedback, conflict management, negotiations.	3	1	4				8	8	
6. Teamwork: forming and developing teams, leadership, decision making.	4	1	4				9	8	
7. Professional Services organization: overview, goals, structure, relationship between project delivery and other activities.	4	1	4				9	16	
8. Implementation of Enterprise Resource Planning Systems.	3	1	1				5	4	
9. Software Maintenance	3	1	1				5	6	
10. Preparing for the exam and taking the final exam (written)							2	16	
Total	32	8	24				66	94	

Assessment strategy	Weight, %	Deadline	Assessment criteria
Course assignment	40	During the semester	<p>Course assignment scope:</p> <ul style="list-style-type: none"> - Presentation of project management tool (until 6th semester week) - Presentation of project status (until 9th semester week) - Preparation of project plan (until 14th semester week) - Presentation of project plan (until 14th semester week) <p>Evaluation criteria:</p> <ul style="list-style-type: none"> - Project plan clarity, completeness, logical sequence - Presentation structure, style, contents, scope, recommendations and conclusions - Delivery in time (if assignment delivery is late by no more than 2 weeks, points are reduced by 25%, if late by no more than 4 weeks – 50%, later – 75%).
Exam (written)	60	Exam session	The exam consists of 25 open, semi-open and close-ended questions and tasks, each of them is assessed between 0.1 and 0.3 points. Up to 6 points can be collected in the exam.

Author	Year	Title	Number or volume	Publisher or URL
Required reading				
Project Management Institute	2017	A Guide to the Project Management Body of Knowledge	6 th Edition	Project Management Institute

		(PMBOK Guide)		
Marry Poppendieck, Tom Poppendieck	2003	Lean Software Development: An Agile Toolkit	1 st Edition	Addison-Wesley Professional
Thomas E. Lah, Steve O' Connor, Mitchel Peterson	2002	Building Professional Services: The Siren's Song	1 st Edition	Prentice Hall
Recommended reading				
Lyssa Adkins	2010	Coaching Agile Teams	1 st Edition	Addison-Wesley Professional
Jurgen Appelo	2016	Managing for Happiness: Games, Tools, and Practices to Motivate Any Team	1 st Edition	Wiley
Mike Cohn	2009	Succeeding with Agile: Software Development Using Scrum	1 st Edition	Addison-Wesley Professional
Tom DeMarco, Timothy Lister	2013	Peopleware Productive Projects and Teams	3 rd edition	Addison-Wesley Professional
Ken Schwaber, Jeff Sutherland	2017	The Scrum Guide		www.scrum.org