



MODULE DESCRIPTION

Module title	Module code
Professional Practice	

Lecturer(s)	Department where the module is delivered
Coordinator: prof. dr. Romas Baronas Other lecturers: supervisors of professional practice	Department of Software Engineering Faculty of Mathematics and Informatics Vilnius University

Cycle	Type of the module
First	Compulsory

Mode of delivery	Semester or period when the module is delivered	Language of instruction
Face-to-face	8 semester	Lithuanian

Prerequisites
Prerequisites: Software Engineering I and II, Software Design, Software Development, Software Testing, Software Projects and Quality Management, Software Process.

Number of credits allocated	Student's workload	Contact hours	Self-study hours
15	375	10	365

Purpose of the module: programme competences to be developed		
Purpose of the module – to strengthen and improve the knowledge, competencies and skills gained during the studies, to gain professional skills.		
<p>Generic competences:</p> <ul style="list-style-type: none"> • Communication and collaboration (<i>GK1</i>). • Life-long learning (<i>GK2</i>). • Social responsibility (<i>GK3</i>). <p>Specific competences:</p> <ul style="list-style-type: none"> • Knowledge and skills of underlying conceptual basis (<i>SK4</i>). • Software development knowledge and skills (<i>SK5</i>). • Technological and methodological knowledge and skills, professional competence (<i>SK6</i>). 		
Learning outcomes of the module: students will be able to	Teaching and learning methods	Assessment methods
Apply theory to professional practice	Practical professional activities, monitoring progress of the practice, tutorials, preparation of practice report and results presentation	Professional practice report, practice results presentation and defence, answers to the questions verbally
Learn methods, tools, and technologies used in the company and apply them for solution practice's tasks		
Analyse the problem, identify needs, define requirements, formulate solutions and evaluate their acceptability, and implement them using the most suitable means		
Work in a team, communicate with professionals of different areas; have strong professional ethics		
Organise the own work independently and effectively.		
Use arguments and appropriate language to thoroughly communicate work results both verbally and in writing; have strong academic ethics		

Content: breakdown of the topics	Contact hours						Self-study work: time and assignments		
	Lectures	Tutorials	Seminars	Practice	Laboratory work (LW)	Tutorial during LW	Contact hours	Self-study hours	Assignments
Professional practice and report preparation.		8					8	360	To learn about the company, analyse the business sector, prepare a plan for completing practice assignments, complete all the assignments, and prepare a practice report.
Professional practice results presentation and defence.							2	15	To prepare the presentation and be prepared to defend practice results and report.
Total		8					10	375	

Assessment strategy	Weight %	Deadline	Assessment criteria
Professional practice completion	40	10 th week of the semester.	Knowledge gained in a professional practice, competencies and skills, practice results and report. Assessed by the host organisation.
Professional practice results, practice report and defence.	60	11 th week of the semester.	Defence is allowed when a professional practice report is delivered on time and with a university supervisor's permission. The report has to meet <i>Professional practice report requirements</i> issued by the Department of Software Engineering. Practice results are defended against the Commission of the Department of Software Engineering. Students and scientific-pedagogical staff participate in a defence. Supervisors from the host organisation are invited to attend the defence. Any other interested persons can also participate in the defence. Assessment commission as well as any other participants are free to ask any questions. The following aspects are assessed: practice completion, assignment difficulty, reasoning behind suggested solutions, report, presentation, answers to provided questions. Presentation of practice achievements of no more than 10 minutes. Feedback from practice supervisors is taken into account. Defended work is graded. Failed work is not credited.

Author	Publishing year	Title	Number or volume	Publisher or URL
Required reading				
VU MIF Software Engineering Department	2007	Professional practice report requirements (in Lithuanian)		http://www.mif.vu.lt/katedros/s/Studentams/ReikalavimaiPraktikosAtaskaitai_10.htm

	2009	VU Mathematics and Informatics faculty professional practice regulations (in Lithuanian)		https://kedras.mif.vu.lt/praktvld/failai/MIF-praktikos-nuostatai.doc
Recommended reading				
M. Berndtsson, J. Hansson, B. Olsson, B. Lundell	2008	Thesis Projects: A Guide for Students in Computer Science and Information Systems	2nd ed.	Cambridge [N.Y.] : Cambridge University Press,
Peter Stray Jorgensen, Lotte Rienecker	2003	How to write research work (in Lithuanian)		Aidai, Vilnius