



## COURSE UNIT DESCRIPTION

Course unit title	Course unit code
Ethics and professional conduct	

Lecturer(s)	Department where the course unit is delivered
<b>Coordinator:</b> Vytautas Ašeris  <b>Other lecturers:</b> -	Department of Software Engineering Institute of Computer Science Faculty of Mathematics and Informatics Vilnius University

Cycle	Type of the course unit
1 <sup>st</sup> (BA)	Compulsory

Mode of delivery	Semester or period when the course unit is delivered	Language of instruction
Face-to-face	6 <sup>th</sup> semester	English

Prerequisites
<b>Prerequisites:</b> Software Engineering I, Software Engineering II.

Number of credits allocated	Students' workload	Contact hours	Individual work
5	130	50	80

Purpose of the course unit: program competences to be developed		
<p>Purpose of the course: software engineers must conduct themselves ethically and professionally, in order to deliver software products effectively and efficiently. To achieve that, course teaches to understand more fully the basic principles in professionalism and ethics as well as the specifics of their interplay. Course forms abilities to undertake literature searches and analysis, apply research methods, and independently solve the formulated problems.</p>		
<p><b>Generic competences:</b></p> <ul style="list-style-type: none"> <li>• Communication and collaboration (<i>GK1</i>).</li> <li>• Life-long learning (<i>GK2</i>).</li> <li>• Social responsibility (<i>GK3</i>).</li> </ul>		
<p><b>Specific competences:</b></p> <ul style="list-style-type: none"> <li>• Technological and methodological knowledge and skills, professional competence (<i>SK6</i>).</li> </ul>		
Learning outcomes of the course unit: students will be able to	Teaching and learning methods	Assessment methods
Apply theoretical knowledge in academic, business and everyday life ethical problems. Assess and analyze ethical cases and dilemmas. Understand social context and personal place in it, via four components of emotional intelligence. Understand how to represent oneself in verbal, written and behavioral forms. Combine personal values with organizational values. Further independently develop understanding of social and moral dilemmas in modern businesses. Understand and evaluate ethical principles and standards existing in different business organizations. Make ethical professional decisions and practice ethical professional behavior. Undertake literature searches, analysis, and apply research methods. Plan, design and conduct experiments and other appropriate practical investigations, as well as to analyze and interpret data.	<ul style="list-style-type: none"> <li>• Problem-oriented teaching</li> <li>• Cooperative and collaborative learning</li> <li>• Active learning</li> <li>• Case analysis - independently and in a classroom</li> <li>• Discussions and debates</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation of the prepared individual work</li> <li>• Evaluation of the prepared group work</li> <li>• Exam (open, semi-open and close-ended questions and tasks)</li> </ul>

Course content: breakdown of the topics	Contact hours						Individual work: time and assignments		
	Lectures	Tutorials	Seminars	Practice	Laboratory work (LW)	Tutorial during LW	Contact hours	Individual work	Assignments
1. <b>Introduction.</b> Professionalism and ethics. Core values as foundation. Requirements for research papers in department of Software Engineering.	3						3	2	Self-study of literature to deepen knowledge.
2. <b>Individual cognition.</b> The golden Rule. Values needed to be successful, their change over time. Self-respect, accountability and discipline. Importance of lifelong learning. Emotional intelligence. Core values and believes, their relation.	4		2				6	6	Self-study of literature to deepen knowledge.
3. <b>Self-representation and understanding.</b> Communication skills: verbal, written and visual. Dilemma of perceived vs real. Career planning. Personality types and tests. IQ and EQ. Educated philistines.	4		2				6	8	Preparation for 1 <sup>st</sup> laboratory work.
4. <b>Group dynamics and psychology.</b> Dynamics and composition of any team. Compatibility of team members. Personality types in a team. Feedback and its value. Positive and negative feedback in context of EQ. Conflicts, their origins and how to solve them. Debates and constructive arguments. Validating questions. Dealing with uncertainty and ambiguity.	2		2				4	6	Self-study of literature to deepen knowledge. Preparation for 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> laboratory works.
5. <b>Dealing with multicultural environments.</b> Cultural differences between different nationalities, impact on professional environment. Real world examples. Cultures in different domains: written, verbal and visual. Working in global teams. Visible and hidden peculiarities. Gender, minor, and cultural issues. Inclusion and diversity. Boundaries of tolerance. Social dominance theory.	2		2				4	6	
6. <b>Academic ethics and professional conduct.</b> Requirements and recommendations for research paper work in this semester. Ethics in studies and research. Ecosystem of universities. Ethics of scientific research and its presentation. Academic writing (1. Formal and informal rules for academic writing, case examples. 2. Technical aspects of academic writing: citing, latex, reference management. 3. Publicizing scientific research: articles, conferences). Academic speaking.	5		0				5	10	
7. <b>Business ethics.</b> Codes of ethics and practice. Business ethics (1. Common understanding of what is unethical in workplace, statistics. 2. Influencing people and stakeholder management. 3. Conflict between personal and professional values. 4. Morals behind lying). Dilemma of ethical but not professional, and vice-versa. Ethics of marketing. Ethical leadership.	4		2				6	10	
8. <b>Professional conduct.</b> General conduct and software engineering specific. International standards, standards and harmonization organizations (1. IEEE-CS/ACM - Software Engineering Code of Ethics. 2. ACM - Code of Ethics and Professional Conduct). Conflicts of interest. Career in corporate organizations. Understanding the benefits of being open minded but sticking to your core values.	4		4				8	12	
9. <b>Advanced topics.</b> Data confidentiality and security, surveillance and privacy; GDPR. Contracts and liability, intellectual property, freedom of information. Computer crime and law enforcement. Information security in everyday apps and devices. Sustainability and impact - ESG. Market manipulation. Compliance. Industrial revolutions and their impact on business ethics. The Innovator's Dilemma.	4		2				6	4	
10. Preparation for the exam and taking the final exam (written).	0	2	0				2	16	2h tutorials, 2h exam.
<b>Total</b>	<b>32</b>	<b>2</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>80</b>	

Assessment strategy	Weight %	Deadline	Assessment criteria
Laboratory assignment No. 1.	15	Week 6	Personal laboratory work on self-presentation is assigned to the students that covers the knowledge and skills that were developed in 2-3 topics. A 10 minute presentation in a seminar is given about student's interests and passions. Lateness leads to the decrease of the maximal assessment (1.5) by 25% of every delayed week.
Laboratory assignment No. 2.	20	Week 8	The collaborative laboratory work on self-awareness and assessment is assigned to the students that covers the knowledge and skills that were developed in 4-5 topics. Student teams for collaborative work are recommended to be from 3 to 5 students, and for them not to rotate during the semester. Lateness leads to the decrease of the maximal assessment (2.0) by 25% of every delayed week. Each student in the team is evaluated separately, according to the student's responses during the review of the assignment.
Laboratory assignment No. 3.	20	Week 13	The collaborative laboratory work is continued, covering the knowledge and skills that were developed in 5-6 topics. Students work on a case study, which is presented in a 20 minute presentation in a seminar, which includes introduction to facts, summary of how it case analyzed was portrayed and perceived, and what conclusions can be made. Lateness leads to the decrease of the maximal assessment (2.0) by 25% of every delayed week. Each student in the team is evaluated separately, according to the student's responses during the review of the assignment.
Laboratory assignment No. 4.	15	Week 16	The collaborative laboratory work is continued, covering the knowledge and skills that were developed throughout all semester. Students work on a group presentation on self-awareness and updated understanding of that after working in assignment No.3, which is presented in a 15 minute presentation in a seminar. Each student in the team is evaluated separately, according to the student's responses during the review of the assignment.
Mini quizzes during lectures	0-10	During the semester	During the lecture students might get asked random questions in an interactive way, which are not mandatory. Each answer can be rated from 0.01 to 0.05.
Exam (written)	40	Exam session	Exam can be taken <b>only when</b> total amount of points collected during the semester is <b>3.0 or more</b> . Maximum 4.0 points can be collected in exam, which attribute to the 40% of the final score. The exam consists of open, semi-open and close-ended questions and tasks each of them is assessed between 0.1 and 1.5 points (accordingly to the difficulty). Questions and tasks are formulated from topics set out in lectures. Exam is considered to be passed if at least 1.0 out of 4.0 points is collected.

Author	Publ. year	Title	Number or volume	Publisher or URL
<b>Required reading</b>				
O.C.Ferrell, J.P.Fraedrich, L.Ferrell	2014	Business Ethics: Ethical Decision Making and Cases	10 <sup>th</sup> Edition	Cengage Learning
J.C.Maxwell	2005	Ethics 101: What Every Leader Needs To Know (101 Series)		Center Street
M.J.Quinn	2016	Ethics for the Information Age	7 <sup>th</sup> edition	Pearson
D.Carnegie	1998	How to Win Friends and Influence People		Gallery Books
D.Goleman	2006	Emotional Intelligence: Why It Can Matter More Than IQ	10 <sup>th</sup> edition	Bantam
<b>Recommended reading</b>				
B.McLean, P.Elkind, J.Nocera	2013	The Smartest Guys in the Room: The Amazing Rise and Scandalous Fall of Enron	Reprint edition	Portfolio
R.K.Greenleaf	2015	The Servant as Leader	rev Edition	The Greenleaf Center for Servant Leadership
S.Harris	2013	Lying		Four Elephants Press
N.N.Taleb	2018	Skin in the Game: Hidden Asymmetries in Daily Life		Random House
J.P.Stray, R.Lotte	2003	Kaip rašyti mokslinį darbą		Aidai, Vilnius
K.Kardelis	2002	Mokslinių tyrimų metodologija ir metodai		Judex , Kaunas
R.Kačinskaitė	2008	Elektroninės leidybos sistemos LATEX pagrindai		Šiaulių universiteto leidykla, Šiauliai