1.	Course Title	Innovation in ICT
2.	Code	F18L3W105
3.	Study program	Software engineering and information systems
4.	Study Program Organizer	Faculty of Computer Science and Engineering
5.	Degree (first, second, third cycle)	first cycle
6.	Academic year / semester 4 / winter / mandatory	7. ECTS credits 6
8.	Teacher	full professor Marjan Gushev, assistant professor Magdalena Kostoska
9.	Course enrollment prerequisites	Бизнис и менаџмент и (Веб прогрмирање или Интернет технологии или Имплементација на системи со отворен и слободен код)
10.	Course program goals (competencies): Understanding innovation. Acquiring innovative skills. Application of ICT for creating innovations. Creating innovation in ICT.	
11.	Course program content: Innovative organizations. Understanding innovation. The process of innovation in companies. Innovative skills. Support for creativity. Manage the innovation process. Function of design in innovation. Innovations driven by design. Measuring Innovation in Organizations. Commercialization of innovation. Effective innovation plans. Using ICT as an Innovation Support. Innovation in ICT. Accelerate innovation by using ICT. New ICT technologies and innovation opportunities.	
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.	
13.	Total available time	6 ECTS x 30 hours = 180 hours

14.	Distribution of the available time		30 + 45 + 15 + 15 + 75 = 180 hours	
15.	Teaching activity forms	15.1.	Lectures – theoretical teaching	30 hours
		15.2.	Exercises (laboratory, auditory), seminar papers, teamwork	45 hours
16.	Other activity forms	16.1.	Project Tasks	15 hours
		16.2.	Independent Learning Tasks	15 hours
		16.3.	Home learning	75 hours

17.	Assessment methodology	
17.1.	Tests	10 points
17.2.	Seminar paper/project (presentation: written and oral)	10 points
17.3.	Activity and learning	10 points
17.4.	Final exam	70 points

18.	Assessment criteria (points/grade)	up to 50 points	5 (five) (F)
		51 to 60 points	6 (six) (E)
		61 to 70 points	7 (seven) (D)
		71 to 80 points	8 (eight) (C)
		81 to 90 points	9 (nine) (B)
		91 to 100 points	10 (ten) (A)
19.	Course completion and final exam requirements	Realized activities 15.1 and 15.2	
20.	Teaching Language	Macedonian and English	
21.	Teaching quality evaluation method	Internal evaluation mechanisms and questionnaires	

22.	Course Material

22.1.	Mandatory course material

No.	Author	Title	Publisher	Year
1	T. Davila, M. Epstein, R. Shelton	Making Innovation Work	Pearson	2012
2	Joseph Tidd & John Bessant	Managing Innovation: Integrating Technological, Market and Organizational Change	Wiley	2013

22.2.	Additional course material

No.	Author	Title	Publisher	Year