1.	Course Title	ICT for Development
2.	Code	F18L3S102
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 / summer / optional	7. ECTS credits 6
8.	Teacher	full professor Dimitar Trajanov
9.	Course enrollment prerequisites	Бизнис и менаџмент и (Веб прогрмирање или Интернет технологии или Имплемнтација на системи со отворен и слободен код)

10.	Course program goals (competencies):
	The primary goal of the course is to study the fundamentals and best practices of usage of the technology for development. The students will understand the concept of sustainable development that includes the impact on nature and society. Students will be aware of the 17 goals for sustainable development defined by the United Nations. Students will examine the opportunities for applying new technologies like mobile devices, drones, sensors in areas such as agriculture, communications, education, economy, health, governments and gender equality. Students will be able to understand the concepts of social innovation and social entrepreneurship. Students will learn how to apply methodologies for designing solutions that are human-centered and to apply the design thinking methods.

11.	Course program content:

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	0 points
	17.2. Seminar paper/project (presentation: written and oral)	30 points
	17.3. Activity and learning	10 points
	17.4. Final exam	60 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	Richard Heeks	Information and Communication Technology for Development (ICT4D)	Routledge - Taylor & Francis	2017
2	Dorothea Kleine	Technologies of Choice? ICTs, Development, and the Capabilities Approach	MIT Press	2013
3	Tim Unwin	Reclaiming Information and Communication Technologies for Development	Oxford University Press	2017

22.2.	Additional course material			
No.	Author	Title	Publisher	Year