Course code:	HUMAN-CENTERED COMPUTING			
IFI7172.DT		1		
ECTS credits: 4	Amount of contact	Teaching semester:	Assessment form:	
(ECTS)	lessons: 22h	Fall	Exam	
Course objectives:	The goal of the course is to lay the foundations for understanding the			
	ways humans, both as individuals and in social groups, adopt, adapt,			
Drief description of	and organize their lives	s around computational	technologies.	
course content:	This course comprises 3 main parts:			
	• The mindset - Appreciate the role of human factors in the			
(including the	design of Human centered information systems.			
independent work)	• The process - Develop an understanding of basic concepts to create innovative, effective, and sustainable solutions for social change.			
	• The methods - Be able to apply those basic concepts in the design of Human centered information systems.			
	 Topics covered also cover an introduction to a wide range of theories such as: Situate computational technologies such as sociotechnical systems 			
	 Explain and foresee technology acceptance 			
	• Explain and for	resee innovation diffusion	n	
	-			
	All students taking this This includes asking an reading assignments.	s course are expected to nd responding to questic	participate actively.	
Learning Outcomes:	Having successfully completed the course, students will be able to understand how humans relate to computational technology. Namely, students will be able to:			
	 Situate the role groups) and hor around comput Apply those ba 	of humans (as individua w they adopt, adapt, and ational technologies. sic concepts in the desig	als and in social l organize their lives gn of Human centered	
	information sys	stems.		
Assessment Methods:	Exam based upon:			
	• Assignments (2	20%)		
	 Participation in 	class discussion (10%)		
	• Present the case	e study plan (10%)		
	Case study repo	ort (30%)		
	Paper Reviews	(10%)		
	• Present the desi	ign solution (20%)		
Teacher(s):	Sónia Sousa, Ph.D.			
Subject name in	Kasutajakesksed tarkva	aralahendused		
Estonian:	N			
Prerequisite subject(s):	None.			
Compulsory Literature:	There is no required lit of reading materials with	erature in the sense of a a lill be assigned by the tea	physical book. A list achers and provided on	

	the course blog.		
Replacement	To be discussed with teacher.		
Literature:	Brown, T., & Wyatt, Innovation.	J. (2010) Design Thinking for Social	
	Eason, K. (2008). Sociotechnical systems theory in the 21st Century: another half-filled glass. Sense in social science: A collection of essays in honour of Dr. Lisl Klein, 123-134.		
	Davis, M. C., Challenger, R., Jayewardene, D. N., & Clegg, C. W. (2014). Advancing socio-technical systems thinking: A call for bravery. Applied ergonomics, 45(2), 171-180.		
	Davis, F. D. (1985). A technology acceptance model for empirically testing new end-user information systems: Theory and results (Doctoral dissertation, Massachusetts Institute of Technology).		
	Venkatesh, V., & Davis, F. D. (2000). A theoretical extension of the technology acceptance model: four longitudinal field studies. Management science, 46(2), 186-204.		
	Rogers, E. M. (1976). New product adoption and diffusion. Journal of consumer Research, 290-301.		
	Rogers, E. M. (2010). Diffusion of innovations. Simon and Schuster.		
Participation and Exam requirements:	Students are required to participate in 70% out of the foreseen contact hours.		
Independent work:	Participate in the discussion activities and perform the assignments.		
Grading criteria scale	Grading criteria:		
or the minimum level necessary for passing	A - 90-100% of the work is done - excellent: outstanding work with only few minor errors.		
the subject:	B - 80-90% of the work is done - very good: above average work but with some minor errors.		
	C - 70-80% of the work is done - good: generally good work with a number of notable errors.		
	D - 60-70% of the work is done - satisfactory: reasonable work but with significant shortcomings.		
	E - 50-60% of the work is done - sufficient: passable performance meeting the minimum criteria.		
	F- less than 50% of the work is done - fail: more work is required before the credit can be awarded.		
Information about the	Date and time	Form of study and course content by topic	
course: (Topics by contact session, deadlines of independent works and exams/assessments times)	23.09 (12:00 – 16.00)	The role of HCC in HCI [4h]	
	06.10 (12.00 – 16.00)	Socio-technical systems [4h]	
	21.10 (12.00 – 14.00)	The design challenge [4h]	
	03.11 (12.00 – 14.00)	Technology acceptance & Innovation diffusion [2h]	

18.11 (12.00 – 16.00)	The design challenge [4h]
01.12 (12.00 – 14.00)	Ethics and Policy concepts [2h]
16.12 (12.00 – 14.00)	In-Class Presentations and Demos [2h]

Teaching Unit in charge:	School of Digital Technologies
Course programme is prepared by:	Sónia Sousa
Date:	14.08.16