

Human-Computer Interaction

Subject area: Computer Science/ICT

University:	TalTech
Level:	MA1
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Jekaterina Tšukrejeva

Short description

The subject introduces students to the field of human-computer interaction. The aim of the subject is to give an overview of the trends and problems of software user interfaces and testing methods, to introduce in more detail the principles of user interface design and the need to plan and conduct user interface testing. Also introduce free or free tools for solving practical tasks using user-centered design methods.

Full description

Theoretical bases in the field of human-computer interaction. Principles of creating user interfaces and basics of technology. User interface design: usability requirements. Collection of claims: personalities, scenarios. Preparation for testing. Information architecture and navigation: requirements and testing possibilities. Paper prototyping, prototyping: requirements and testing possibilities. User interface design options: Mobile applications, Responsive vs Adaptive design, static design, etc. User testing, usability evaluation. Introducing different technologies. Use of different software for usability testing and evaluation. <http://ois2.ttu.ee/uusois/aime/ITB8801> here in Estonian language

Learning outcomes

Student who has passed the course:

1. Is aware of developments in the field of human-computer interaction and how user interfaces have developed in recent years.
2. Is aware of the residual values of human capabilities that must be taken into account when designing the user interface.
3. Understands the relationship between software modeling and usability.
4. Is able to analyze and test usability in software modeling.
5. Knows the most important principles of design and usability.
6. Gains experience in user interface design using various software tools.

General information

Contact hours per week:	4
Total workload:	156 hours (in student hours for the whole course)
ECTS credits:	6
Language:	English

Course start date:	30 January 2023
Course end date:	09 June 2023
Add. info about start date:	
Weekly teaching day/time:	
Time zone:	CET +1 (Estonia, Israel)
Further information:	

Prerequisites:	none
Activities and methods:	Lectures, Seminars, Group work, Self-study, Practices, Exercises, Tutorial sessions
Presence on campus:	Not required

Final examination

Form:	project
Date:	
Location/format:	online
Re-sit possibility:	yes
Transcript available:	end of semester
Add. info/requirements:	Students will publish their projects to the Moodle forum, where they review each other's projects. All projects and reviews will be analysed by the lecturer.

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places:	60
Minimum participants:	1
Internal course code:	ITB8801
Contact:	jekaterina.tsukrejeva@taltech.ee

This course is part of the EuroTeQ Engineering University joint course catalogue 2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.