

# Enhancing Social Interaction in Education and Business by using Telepresence Robots

**Subject area:** Computer Science/ICT

<b>University:</b>	TalTech
<b>Level:</b>	BA all years, MA all years
<b>Teaching mode:</b>	hybrid: some students participate online, other students attend real-life
<b>Instructor(s):</b>	Janika Leoste

## Short description

To discover the capabilities of telepresence robotics (TPR) in enhancing social interaction (in different contexts, including education and business) and learn to deploy, configure and extend such robots.

## Full description

The course consists of six learning experience modules (1 ECTS each): (1) video conferencing vs TPR; (2) social and ethical aspects of TPR; (3) TPR in collaborative learning; (4) teaching tele-presented students - opportunities and challenges; (5) the technical limitations of TPR; (6) how TPR technically work and how to modify them.

## Learning outcomes

After completing this course, the student:

- compares the main differences between videoconferencing and TPR and determine the relevance of TPR in different social interaction situations;
- identifies and analyses (in the form of SWOT or similar) different ethical and social aspects of TPR use (privacy, security, accessibility, countering inequality and prejudice etc);
- identifies and analyses opportunities and challenges when teaching TPR students;
- applies TPR in 'flipped classroom' and collaborative learning situations;
- analyses technical possibilities and limitations of TPR use in different contexts (e.g. human senses);
- describes how TPR robots technically work and is able to extend them with additional hardware and software.

## Recommended in particular for students of the following study programmes

IT and engineering curricula

## General information

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

**Course start date:** 30 January 2023

**Course end date:** 09 June 2023

**Add. info about start date:** The date given at the moment is the first day of the semester. This course should take place on Wednesdays, but please see the schedule for the exact start date.

**Weekly teaching day/time:**

**Time zone:** CET +1 (Estonia, Israel)

**Further information:**

**Prerequisites:** There are no pre-requisites

**Activities and methods:** Seminars, Lab-work, Self-study

**Presence on campus:** No presence on campus required, presence is via a telepresence robot.

## Final examination

**Form:** assignment

**Date:**

**Location/format:** on campus of host institution and via a telepresence robot

**Re-sit possibility:** yes

**Transcript available:** end of semester

**Add. info/requirements:**

## Registration

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

## Administration

**Number of places:**

**Minimum participants:** 8

**Internal course code:** ICY0032

**Contact:** kristel.marmor@taltech.ee

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*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](http://www.euroteq.eu) or get in touch with the above-mentioned point of contact.*