

Social Engineering

Subject area: Computer Science/ICT

University:	TalTech
Level:	Foundation year (before BA), BA2, BA3, BA4, MA all years
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Kaido Kikkas

Short description

Basic knowledge about Social Engineering (mostly in the context of ICT), its common forms and techniques (including hybrid attacks involving technological components), and main countermeasures against it.

Full description

The course consists of 8 lectures covering various aspects of Social Engineering (the main approach is based on the book *Social Engineering: The Art of Human Hacking* by Christopher Hadnagy; it is complemented with assorted other sources) and 4 practical labs/seminars. The participants will be divided into 4 groups, each group will be responsible for one lab (chooses the main topic, compiles a presentation and exercises/experiments done with the participation of other students), the main topic of each lab will be consulted with the lecturer beforehand. In addition, each participant is to write a 5-10 page paper on a freely chosen but course-related topic.

The main topics of the course are:

1. Information gathering.
2. Elicitation.
3. Pretexting.
4. Psychological principles in SE.
5. Influence and persuasion.
6. Tools of SE.
7. Case studies and examples.
8. Prevention, mitigation and counters.

Learning outcomes

Student will:

- know the essence of Social Engineering and its common forms and techniques;
- recognize Social Engineering attempts and act accordingly;

- has an overview of the measures to prevent Social Engineering involving technology, training and policy/regulations.

General information

Contact hours per week: 1,5 hours
Total workload: 78 hours (in student hours for the whole course)
ECTS credits: 3 ECTS
Language: English

Course start date: 30 January 2023

Course end date: 09 June 2023

Add. info about start date: Please see the schedule for the exact start date, at the moment the first day of the semester is given.

Weekly teaching day/time:

Time zone: CET +1 (Estonia, Israel)

Further information:

Prerequisites: There are no pre-requisites

Activities and methods: Lectures, Seminars, Group work

Presence on campus: presence is required 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.

Administration

Number of places: Anyone interested can participate.
Minimum participants:
Internal course code: ICS0018
Contact: kaido.kikkas@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.