

CODE
EAX6040



ECTS credits:
3 ECTS

WHEN AND HOW:

The intensive 3-week course includes a 5-day on-site session at TalTech Mektory in late January, followed by virtual teamwork, mentorship, and result finalization in February. (See the program on page 2 for details.)

LANGUAGE: ENG

PARTNERS:

-  EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/e)
-  RIGA TECHNICAL UNIVERSITY (RTU)

17.01 ONLINE PRE-EVENT

WEEK 1 (ON-SITE)

1. Day 27.01 EXPLORE
2. Day 28.01 LEARN & FRAME
3. Day 29.01 IDEATE & CONCEPT
4. Day 30.01 ANALYZE & PLAN
5. Day 31.01 BUILD

WEEK 2 (VIRTUAL)

ITERATE, FEEDBACK SESSION
7.02

WEEK 3 (VIRTUAL)

ITERATE and FINALIZE, FINAL
PITCHES 14.02

**TAL
TECH**

EuroTeQ
Engineering
University

GREEN DEAL COLLIDER: SUSTAINABLE FUTURES BLENDED INTENSIVE PROGRAMME

TARGET STUDENTS

This course welcomes local and international students from TalTech, EuroTeQ partner universities, and institutions world-wide. It is designed primarily for graduate-level students across diverse departments and disciplines, with a preference for those in science, technology, engineering, or business-related fields. While doctoral and master's students are prioritized, students from all academic backgrounds, years, and experience levels are encouraged to apply.

*Participation is limited to 45 students.

**B2 level English language is required to enrol in the course

LEARNING OUTCOMES

Students will develop both knowledge and hands-on skills in:

- Green Deal principles and sustainability practices
- Team dynamics, design thinking, and entrepreneurial startup skills
- Innovation in product and service development
- Interpersonal effectiveness and transferable professional skills

LECTURERS

- **ERGO PIKAS**, Tenured Assistant Professor, Department of Civil Engineering and Architecture (TalTech)
- **KÄTLIN KANGUR**, Lecturer, Programme Director of Design and Technology Futures (TalTech)
- **GERT GURI**, Coordinator Education on Entrepreneurial Learning, Department of Industrial Engineering & Innovation Sciences (TU/e)

CHALLENGES AND MENTORS COME from different FinEst Centre for Smart Cities pilot projects:

- Reuse old buildings
- AI for detecting street markings
- Database of urban data
- 3D information models in city planning
- Healthy city: urban environment design and social interventions with community engagement
- Turning food waste into protein rich poultry and fish feed

WHY JOIN

- **EXPERIENCE INTERCULTURAL AND INTERDISCIPLINARY LEARNING:** Engage with diverse perspectives and work alongside students from various countries and disciplines.
- **PARTICIPATE IN CHALLENGE-BASED LEARNING:** Tackle global problems and develop actionable solutions through hands-on activities.
- **COLLABORATE ON SMART CITIES PILOT PROJECTS:** Contribute to innovative projects with the FinEst Centre for Smart Cities, gaining insight into cutting-edge urban solutions and sustainable development.
- **BUILD ENTREPRENEURIAL AND TRANSFERABLE SKILLS:** Cultivate skills in entrepreneurship, teamwork, and project management.
- **ENJOY A VIBRANT SOCIAL AND ENTERTAINMENT PROGRAM:** Connect with peers in a lively, supportive atmosphere with organized social events and networking opportunities.
- **COMPLIMENTARY LUNCHES:** Stay energized and focused, so you can make the most of each day's activities.

"The best way to predict future is to create it" by Peter Drucker



PROGRAMME AND SCHEDULE

| TIME | 17.01 | 1. DAY 27.01 | 2. DAY 28.01 | 3. DAY 29.01 | 4. DAY 30.01 | 5. DAY 31.01 | 03.02–9.02 ITERATE | 07.02 FEEDBACK SESSION (online) 13:00 CET | 10.02–14.02 ITERATE AND FINALIZE | 14.02 FINAL PRESENTATION (online) 13:00 CET |
|---------------------------|----------------------------------|--|---|--|-------------------------------------|--|-----------------------|---|---|---|
| | Online pre-event 13:00 CET | EXPLORE | LEARN & FRAME | IDEATE & CONCEPT | ANALYSE & PLAN | BUILD | | | | |
| 9:00 | | Intro to the course and topics / check-in | Intro to the day / check-in | Intro to the day / check-in | Intro to the day / check-in | Intro to the day / check-in | | | | |
| 10:30 | | Framing Sustainability | Immersing in and Exploring the Challenge Domain, Topics and Related Problems: a Systemic View | Value Proposition to Sustainable Business Model Canvas | Minimum Viable Product as a Process | Mentoring Upon Request and Supporting Concept Proposal | | | | |
| BREAK 15 MIN | | | | | | | | | | |
| 10:45 | | Design Thinking Methodology | Create a Rich Design Space | Pitch Training | Methodology and Plan for Validation | Team working with mentors | | | | |
| 12:15 | | | Reframe | Initial Pitch | | | | | | |
| LUNCH BREAK 60 MIN | | | | | | | | | | |
| 13:15–14:45 | | Speed dating with mentors | Team working with mentors | Team working with mentors | Team working with mentors | Team working on their challenge/Pitch Clinic parallel sessions | | | | |
| BREAK 15 MIN | | | | | | | | | | |
| 15:00 | | Multi-disciplinary Team Management and Dynamics, Team Formation and Building | Problem and No-Solution Validation | Team working on their challenge | Team working on their challenge | Presentations of current concept proposals/pitches | | | | |
| 16:30 | | | | Peer to Peer Pitching | Peer to Peer Pitching | | | | | |
| 16:30 | | Team Building and Sharing Individual Learning Outcomes | SHARING, DISCUSSION, RECAP* | SHARING, DISCUSSION, RECAP* | SHARING, DISCUSSION, RECAP* | Wrap-Up and Coming Weeks | | | | |
| 17:00 | | | | | | | PLUS and DELTAS** | PLUS and DELTAS** | PLUS and DELTAS** | PLUS and DELTAS** |

■ Team and individual work (Online)

■ Time for working with mentors

■ On-site (Mektory)

■ Break

FINANCES

- You can apply for an Erasmus+ scholarship (79 EUR/day) for your stay in Tallinn to be provided by your home University*;
- Accommodation**, lunch and social programme are provided by TalTech (travel costs need to be covered by the participants)*;
- No fees for the BIP will be charged.

* Contact your home university for short mobility support and apply for 79 EUR/day provided by your home university

** Located on TalTech campus

APPLY

Apply here by [29th of November](#) (for EuroTeQ students via [course catalogue](#))
Please contact your International Office for nomination and financial support.

TALTECH CONTACTS

Contact for academic/course-related questions: **ERGO PIKAS**, leading lecturer of the course (ergo.pikas@taltech.ee)

Contact for admission-related questions: **PILLEMARI LILLEORG**, incoming exchange student's manager (pillellemari.lilleorg@taltech.ee)