

EuroTeQ Collider: Entrepreneurship & Innovation

Subject area: Entrepreneurship

University:	TU/e
Level:	BA3, BA4, MA all years
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Lianne de Jong (first contact), Gert Guri, Ákos Wetters & Isabelle Reymen (resp. lecturer)

Short description

The collider is the signature challenge-based learning activity of the EuroTeQ project. All challenges are centered around the theme: "Leave no waste behind". During the collider you will work in interdisciplinary – international teams consisting of students from multiple institutes and in collaboration with external stakeholders.

Full description

During this innovation-learning journey to enhance your understanding of the challenges we face, you will co-create solutions towards a more sustainable future. The collider is based on a process of selecting and working with multi-stakeholder driven ideas and challenges within the theme "Leave no waste behind".

The structure of the collider will allow one to form and participate in interdisciplinary – international teams consisting of students and in collaboration with external stakeholders. Together you will work on open-ended challenge-based projects while developing a broad set of soft-skills aiming at improving your capabilities to address uncertainty and acting while being out of your comfort zone.

At the end of the collider all participants will pitch their results in an European context and have a chance to join the EuroTeQathon. The ultimate goal of these events is to collectively develop solutions and actionable opportunities to create a desired future.

More information about the set-up and our specific challenges will be published here:

<https://www.tue.nl/en/our-university/about-the-university/university-alliances-networks/engineer-the-future-with-us/>

Learning outcomes

After completing this course, students will be able to:

1. Select and apply appropriate design, engineering and business approaches and tools to create an innovative and science-based solution to a real-life challenge.

2. Develop a profound interpretation of a complex, real-life problem and its context using a system-thinking approach, taking into account multiple perspectives.
3. Develop a problem-driven, creative and integrative design, demonstrated by a (tangible) prototype harmonizing social desirability, technical feasibility and entrepreneurial viability.
4. Use disciplinary knowledge and expertise in an inter-disciplinary team to develop an innovative and scientifically sound solution in an European context.
5. Communicate your ideas, at different levels of elaboration, via several mediums in an international context to a diverse set of stakeholders.
6. Define and regularly reflect on personal and team development.

General information

Contact hours per week: 4-8

Total workload: 140 (in student hours for the whole course)

ECTS credits: 5

Language: English

Course start date: 24 April 2023

Course end date: 24 June 2023

Add. info about start date:

Weekly teaching day/time: Tuesday mornings: online coaching (and teamwork); Friday afternoons: hybrid project work

Time zone: CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

Further information: Next to our TUE collider, for which all students are invited to enroll, many partners will host a local Collider with the same theme but in a different format.

More informations about the different colliders can be found via our shared website:

<https://euroteq.eurotech-universities.eu/initiatives/competitions/the-euroteq-collider/>

Prerequisites: If a course has too much overlap with another course, it is stated that this other course may not have been passed to participate in this course.

Assumed previous knowledge:

Completed at least two-years of the Bachelor program.

Activities and methods: Group work, Challenge Based Learning-project, which includes a lot of teamwork, coaching and (optional) workshops.

Presence on campus: Collider can be joined online, however the EuroTeQathon (for selected teams only) will be a 3-day on-site event. The location has yet to be defined, travel expenses will be covered by the EuroTeQ project.

Final examination

Form: project

Date:

Location/format: no exam, but there will be a final pitch event, which is part of the final grade.

Re-sit possibility:

Transcript available: To be confirmed.

Add. info/requirements: The final pitch event will be set-up in a hybrid way, so if needed the pitch can be given online. Additionally there will be a group report and individual reflection as final deliverables.

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:

Minimum participants: A minimum number of 4 EuroTeQ students is required, considering group work.

Internal course code: 1ZMETU10 (for masters) and 1ZVETU10 (for bachelor)

Contact: euroteq@tue.nl

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.