

Innovation Pilot

Subject area: Entrepreneurship course

University:	DTU
Level:	BA3, BA4
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	Sara Grex, Anders Paarup Nielsen, Peder Veng S�eberg and more.

Short description

The course is about applying innovation theory and models in practice and solving engineering innovation challenges in collaboration with a company. The course works systematically with innovation as an exploratory process aimed at building up knowledge as a basis for seeing new opportunities. Important parts of this work is to investigate the problem and its context and see the problem from different perspectives (reframing).

Full description

<https://kurser.dtu.dk/course/62999>

Learning outcomes

At the end of the course the learner will be able to:

Explain basic theory and methods in innovation and business understanding as well as cooperation and communication

Explain and apply the course's innovation theory foundation in connection with an innovation process

Investigate and map the context of a given problem in order to understand for example market, value creation, trends, needs and technological opportunities.

Set up vision and goals for an innovation process by looking at the innovation challenge from different perspectives and using relevant innovation methods

Organize and design an innovation process to solve a concrete innovation challenge and explain and evaluate the chosen process and method based on theory

Use relevant innovation methods and tools for key elements of the innovation process.

Analyze, evaluate and describe possible solutions to an innovation challenge from a business, technological, organizational and user perspective.

Select and argue for a chosen innovation solution and describe how to implement the solution as well as the business potential and budget.

Work and collaborate across engineering disciplines and organize cooperation in a heterogeneous project group

Illustrate and present results of project work orally for relevant stakeholders

Communicate a solution proposal as a written presentation that includes a documented prototype as well as analyses and considerations on business, user, organizational and technological issues and furthermore considers the implementation of the proposed solution.

Evaluate and reflect on co-operation in an interdisciplinary team, including the role of own and others in the innovation process in order to understand how the team communicates, plans, makes decisions, solves problems, manages discrepancies, and manages professional and personal differences as well as how own and others' competencies are used in the solution of a concrete task.

General information

Contact hours per week: 8

Total workload: 250 (in student hours for the whole course)

ECTS credits: 10

Language: English

Course start date: 31 August 2022

Course end date: 30 November 2022

Add. info about start date:

Weekly teaching day/time: wednesdays 8-17

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

Further information:

Prerequisites: Preferably two years of study

Activities and methods: Seminars, Group work, Practices

Presence on campus:

Final examination

Form: project

Date:

Location/format: The course takes place at DTU (host) with hybrid option of joining online from home/home institution

Re-sit possibility: yes

Transcript available: 4 weeks after submission of final reports

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: 10
Minimum participants:
Internal course code: 62999
Contact: Sara Grex sarg@dtu.dk

This course is part of the EuroTeQ Engineering University joint course catalogue 2022/2023. 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.