HUM-398

HUM-390	Design for sustainability if					
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Cursus		Sem.	Туре	Language of	English	
Humanities and Social Sciences		MA2	Obl.	teaching Credits Withdrawal	Linglish	
UNIL - Autres facultés		E	Opt.		3	
		F	Ont		Unauthorized	
UNIL - HEC		E	Opt.	Session	Summer	
				Semester	Spring	
				Exam	During the	
					semester	
				Workload	90h	
				Weeks	14	
				Hours	3 weekly	
				Project	3 weekly	
				Number of	60	
				positions		
				It is not allowed to withdraw from this subject after the registration deadline.		

Remark

Une seule inscription à un cours SHS+MGT autorisée. En cas d'inscriptions multiples elles seront toutes supprimées sans notification. S'inscrit dans le programme TILT (https://go.epfl.ch/tilt).

Summary

This course explores and practices some of the fundamental tools of designing for sustainability with a focus on the sustainability, desirability, and economic viability of solutions.

Content

See the full description in the autumn semester course - HUM-397: Design for sustainability I.

Design for sustainability I

During the spring semester, sessions are devoted to the prototyping of a solution through a project-based approach.

Lecturers provide guidance on semester projects on a regular basis.

Teams will be made up of engineers (EPFL), industrial designers (ECAL), and social scientists (UNIL)

As part of the TILT program, there will be one online and asynchronous workshop per semester aimed at strengthening professional competences (interdisciplinary and team work, etc.). Students will be asked to keep a logbook as a basis for their individual reflexive note.

Keywords

design process, desirability, viability, sustainability, prototyping, interdisciplinarity, project-based learning

Learning Prerequisites

Required courses HUM-397: Design for sustainability I

Learning Outcomes

By the end of the course, the student must be able to:



- Apply an iterative prototyping approach to test the sustainability, desirability, economic viability of a project
- Develop an innovative and sustainable project through ideation techniques
- Estimate the potential impact of a sustainability-driven project

Transversal skills

- Communicate effectively with professionals from other disciplines.
- Take account of the social and human dimensions of the engineering profession.

Teaching methods

• Group work under weekly lecturer supervision

Expected student activities

- Work in interdisciplinary teams
- Attend weekly project consultations at ECAL
- Design a solution through prototyping
- Document and valorize the processes of designing for sustainability

Assessment methods

- Project and documentation: 80% (groupwork)
- Reflexive note: 20% (individual)

Supervision

Office hours	No
Assistants	No
Forum	No

Resources

Bibliography

• Ceschin, F., & Gaziulusoy, I. d. (2020). Design for sustainability : a multi-level framework from products to socio-technical systems. Abingdon, Oxon ; New York, NY: Routledge/Taylor & Francis Group.

• Manzini, E. (2015). Design, when everybody designs : an introduction to design for social innovation. Cambridge, Massachusetts: The MIT Press.

• Papanek, V. J. (1972). Design for the real world; human ecology and social change. New York,: Pantheon Books.

• Thompson, P. B., & Norris, P. E. (2021). Sustainability : what everyone needs to know. New York, NY: Oxford University Press.

• Verganti, R. (2016). Overcrowded : designing meaningful products in a world awash with ideas. Cambridge, Massachusetts: The MIT Press.

• Wizinsky, M. (2022). Design after capitalism : transforming design today for an equitable tomorrow. Cambridge, Massachusetts: The MIT Press.

Ressources en bibliothèque

- Ceschin, Design for sustainability
- Thompson, Sustainability
- Wizinsky, Design after capitalism
- Papanek, Design for the real world
- Verganti, Overcrowded : designing meaningful products in a world awash with ideas
- Manzini, Design, when everybody designs

Websites

https://designforsustainability.studio

Moodle Link

• https://go.epfl.ch/HUM-398