

Course description

Title of the course: Theory-based project development/A / Design for Sustainability				
Tutors of the course, contact details: Dr. Karina Vissonova, vissonova@icloud.com +36309103312				
Code: M-AE-E-102-A	Related curriculum (programme/level): ESMA ER THEO	Recommended semester within the curriculum: 1-3	Credit: 5	Number of class hours: 48 Student working hours: 102
Related codes: M-AE-102 ER-THEO-BA- ELM-222302-02	Type: seminar/lecture	Can it be an elective course? No.	In case of elective what are the specific prerequisites:	
Course connections (prerequisites, parallels):				
<p>Aim and principles of the course:</p> <p>The aim of the course is to facilitate the students learning in design for sustainability. In this course, we will look at the multiple ways of understanding sustainability, and we will subsequently explore ways of designing lifestyles appropriated to new and emerging economic and environmental capacities.</p> <p>Principles of the course:</p> <ol style="list-style-type: none"> 1. Motivate to engage in understanding the notions of sustainability from social, technological and philosophical (ethical and values) perspectives. 2. Train to hold moderated discussions and present complex topics rooted in values. 3. Facilitate learnings based in theory and how to apply theory in practice. 4. Prepare in thinking in future oriented design and in philosophy of design. 				
<p>Learning outcomes:</p> <p>The students will gain competencies in</p> <ol style="list-style-type: none"> 1. ability to orient within the different movements in sustainability and select parameters for designing for sustainability; 2. design for values and design ethics; 3. common sustainable design methods for product design and artistic practices; 4. assessing critically sustainability propositions and be able to address challenges with a wholistic approach. <p>In addition, the students will acquire skills in discussing and debating complex subjects; in philosophy of design, and in writing in creative disciplines.</p>				
<p>Topics and themes to be covered in the course:</p> <p>Week 1: Introduction and Sustainability 0.1</p>				

Week 2: Future Bazaar workshop

Week 3: Sustainability and sustainable development review

Week 4: Sustainable Design Methods + Artistic Practices

Week 5: Design for Values

Week 6: Natural Resources and Extractive Culture

Week 7: Transition Design

Week 8: Behaviour and Consumerism

Week 9: Localisation movements, alternative lifestyles, Indigenous movements

Week 10: Design for Wellbeing, Economics of Recognition

Week 11: Future Bazaar - with new eyes/ Creative writing

Week 12: Presentations of Graphical Essays

Assessment: Graphical Essay

Course assessment is based on a Graphical Essay.

Requirements to be met:

- 1) The essay primarily communicates through images (photography/ collages/ art),
- 2) it must be supplemented with text consisting of around 1000 words in English.
- 3) The essay should reflect on one of the themes in detail and show advanced and / or critical thinking. The students will be individually supported in writing their texts and with one workshop dedicated to learning writing for creatives.
- 4) The essays can be produced in groups or individually.

Method of assessment:

Presentations of essays and discussions in class whereafter the grade is issued.

Assessment criteria:

A) Individual engagement and group work contributions, in debates and discussions 40%.

B) Research competency and assignment presentation competencies 30%

C) Graphical essay in groups or individual 30%

How is the mark calculated:

Each student receives individual assessment of A), B) and C) to receive the total of 100%.

The C) is calculated equally between group members in case of a group submission. However, A) has the priority weight in the final grade.

Required Literature: (*Subject to Change*)

Week 3:

- Vissonova, K. Effects of design and sustainable design of technical artefacts. In P. E. Vermaas & S. Vial (Eds.), *Advancements in Philosophy of Design. Design Research Foundations*, Springer. <https://www.springer.com/us/book/9783319733012>. The Netherlands. (2018). Pages 435-439.
- Hopwood, B. and O'Brien, G. 2005. Sustainable Development: Mapping Different Approaches, in *Sustainable Development* · Feb. 2005 1.04 · DOI: 1.04 · DOI:10.1002/sd.244
- van de Poel, I. Design for sustainability. In P. K. Brey, D. M. Callicott, & J. Baird (Eds.), *Technology and the environment*. Cambridge, MA: MIT Press.

Week 4:

Find and present 2-3 sustainable design methods per group.

(For Classifications of Sustainable Design:)

- Vissonova, K. Effects of design and sustainable design of technical artefacts. In P. E. Vermaas & S. Vial (Eds.), *Advancements in Philosophy of Design. Design Research Foundations*, Springer. <https://www.springer.com/us/book/9783319733012>. The Netherlands. (2018). Pages 445-448.

Week 5:

- Brumsen, M. (2011). Sustainability, ethics and technology. In I. van de Poel & L. Royakkers (Eds.), *Ethics, technology, and engineering* (pp. 277–300). Oxford: Wiley-Blackwell.
- van de Poel, I. (2009). Values in engineering design. In A. W. Meijers (Ed.), *Philosophy of technology and engineering sciences* (pp. 973–1007). Amsterdam: Elsevier.

Week 6:

- Reller, A., and Diesenbacher, J. (2015). Are there enough resources for our lifestyle? How resource strategy leads from wasting materials to using them. In P. Stebbing & U. Tischner (Eds.), *Changing paradigms: Designing for a sustainable future*. Publication No. 1 of the Think Tank Series from the Cumulus International Association of Universities and Colleges of Art, Design and Media. (pp. 154–166). Aalto University School of Arts, Design and Architecture. Mumbai: Vedanta Arts.
- Rockström, J. (2015). Planetary boundaries. A safe operating space for humanity. Published online by the Stockholm Resilience Centre as SOS for Business. <http://www.stockholmresilience.org/download/18.6d8f5d4d14b32b2493577/1422535795423/SOS+for+Business+2015.pdf>.
- Elhacham, E., Ben-Uri, L., Grozovski, J. et al. Global human-made mass exceeds all living biomass. *Nature* 588, 442–444 (2020). <https://doi.org/10.1038/s41586-020-3010-5>

Week 7

- Video: <https://youtu.be/-cMHNKi8fto> lecture by Terry Irwin

Week 8:

- *T. Crompton for WWF-UK 2008, in "Green Bumble - undiscussed discussions" Editor K. Vissonova, ADES publications 2021*
- Thorpe, A. (2010). Design's role in sustainable consumption. *Massachusetts Institute of Technology Design Issues*, 26(2), 3–16.
- Jackson, T 2016: *Beyond Consumer Capitalism—Foundations for a Sustainable Prosperity*. CUSP Working Paper No 2. Guildford: University of Surrey. Online at: www.cusp.ac.uk/publications.

Week 9:

Groups select videos and podcasts: recommended Local Futures by H. Norberg-Hodge

- Nordic by Nature <https://nordicbynature.transistor.fm/> episode: x
- MIT Open Documentary Lab. Dr. Duke Redbird
<https://www.youtube.com/watch?v=TqjKF6ZAGBA&feature=youtu.be>

Week 10:

Groups find alternative economic models for discussions.

- Salazar, G. and Baxter, S., 2018. Ecological Design as an Ecology of Love: Epistemological and Ethical Implications. In P. E. Vermaas & S. Vial (Eds.), *Advancements in Philosophy of Design*. Design Research Foundations, Springer.
<https://www.springer.com/us/book/9783319733012>. The Netherlands.

Other information: –

Recognition of knowledge acquired elsewhere/previously/validation principle:

- No exemption from attending and completing the course will be granted.

Out-of-class consultation times and location:

Consultations: Online as per request during weekdays. In person, on Tuesdays before or after the class. Email to vissonova@icloud.com