



Course syllabus

Introduktion Introduction

IDEF25, 5 credits, G2 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED ID

Date of Decision: 2023-03-16

General Information

Main field: Industrial Design.

Compulsory for: MID1

Language of instruction: The course will be given in English

Aim

Familiarise the students with each other, the staff and the facilities as well as the specific possibilities of studying in a full-faculty university environment.

Develop an understanding that sustainable as well as moral and ethical considerations must be at the root of any industrial design project.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- Demonstrate the ability to plan and work individually as well as in a small team.

Judgement and approach

For a passing grade the student must

- Be able to reflect on and question their future professional roles as industrial designers.
- Reflect the cultural mission and ethical responsibility of the designer.

Contents

The course begins with a repetition of design methodology, which provides an overview of the methods and processes used to structure, analyse, synthesize, evaluate and document design processes.

It is followed by a workshop concerning form, alternatives, variants and their evaluation and documentation.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: 80% participation, project completion according to the guidelines set by the teacher.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

The number of participants is limited to: No

Reading list

- Andersson, Monica Politik och Stadsbyggande, modernismen och byggnadslagstiftningen, (doktorsavhandling Stockholms Universitet 2009).
- Aranda, B., & Lasch, C. Tooling. New York, USA: Princeton Architectural Press. (2006).
- Baudrillard, J The system of objects. (J. Benedict, Trans.). London, United Kingdom: Verso. (Original work published 1968). Bender, L. (Producer), & Guggenheim, D. , (2006).
- Bender, L. (Producer), & Guggenheim, D. (Director). An inconvenient truth [Motion picture]. United States: Paramount Classics. (2006).
- Braungart, M. & McDonough, W. (2002). Cradle to cradle: remaking the way we make things. (1. ed.) New York: North Point Press.
- Brown, L.R. (2008). Plan B 3.0: mobilizing to save civilization. New York: W.W. Norton & Co..
- Carson, R. (1970[1962]). Silent spring. Greenwich, Conn.: Fawcett.
- Debord, G. The society of the spectacle. (D. Nicholson-Smith, Trans.). New York, USA: Zone Books. (Original work published 1967). (1995).
- Diamond, J. (2005). Guns, germs and steel: the fates of human societies. ([New ed.]). New York: Norton.
- Diamond, J. (2011). Collapse: how societies choose to fail or succeed. New York: Penguin.
- Edman, Stefan, Biffen, Bilen, Bostaden, (statlig utredning om hållbar konsumtion, ladda ner från regeringskansliets hemsida).
- Florida, R., The rise of the creative class. And how it's transforming work, leisure, community and everyday life. New York, USA: Basic Books, (1995).
- Flusser, V., Writings. Electronic Mediations. Minneapolis, USA: University of Minnesota Press, (2004).
- Fry, T. (2011). Design as politics. Oxford: Berg.
- Gilbert, R. & Perl, A. (2010). Transport revolutions: moving people and freight without oil. Gabriola Island, Canada: New Society Publishers. Vancouver.
- Grasser, H. (Producer), & Wagenhofer, E. (Director). We feed the world [Motion picture]. Austria: Allegro Film, (2005).

- Harari, Y.N. (2015). *Sapiens: a brief history of humankind*. Random House UK.
- Hertz, Noreena. (2002). *The silent takeover: global capitalism and the death of democracy*. London: Arrow.
- Hruska, L., & Roberts, R. (Eds.), *Design and the elastic mind*. New York, USA: The Museum of Modern Art, (2008).
- Jacobs, J. (1961). *The death and life of great American cities*. (3. pr.) New York.
- Kelley, T., & Littman, J. *The art of innovation. Lessons in creativity from IDEO, America's leading design firm*. New York, USA: Broadway Business, (2001).
- Kelley, T., & Littman, J., *The ten faces of innovation: IDEO's Strategies for defeating the devil's advocate and driving creativity throughout your organization*. New York, USA: Broadway Business, (2005).
- Kelly, K., *Out of control. The new biology of machines, social systems, and the economic world*. New York, USA: Basic Books, (1995).
- Kemp, M., *Seen, unseen. Art, science, and intuition from Leonardo to the Hubble telescope*. Oxford, United Kingdom: Oxford University Press, (2006).
- Klein, N. *No logo. Taking aim at the brand bullies*. New York, USA: Picador. (Original work published 2000), (2002).
- Klein, Naomi, *No Logo*.
- Klein, N. (2008[2007]). *The shock doctrine: the rise of disaster capitalism*. ([Penguin ed.]) London: Penguin Books.
- Klein, N. (2014). *This Changes Everything*. Penguin.
- Knauer, R., *Transformation: Basic Principles and Methodology of Design*. (J. Gussen & S. Lindberg, Trans.). Basel, Switzerland: Birkhäuser Verlag, (2007).
- Kolarevic, B., *Architecture in the digital age. Design and manufacturing*. Abingdon, United Kingdom: Taylor & Francis (Original work published 2003), (2005).
- Krippendorff, K., *The semantic turn: A new foundation for design*. Boca Raton, USA: CRC Press, (2005).
- Kunstler, J.H. (1993). *The geography of nowhere: the rise and decline of America's man-made landscape*. New York: Simon & Schuster.
- Kunstler, J.H. (2006). *The long emergency: surviving the converging catastrophes of the twenty-first century*. (Pbk ed.) London: Atlantic.
- Layard, R. (2011). *Happiness* (2. ed.) London: Penguin.
- Lövin, I. (2008). *Tyst hav: jakten på den sista matfisk*. ([Ny utg.]) Stockholm: Ordfront.
- Morelli, N., *Social innovation and new industrial contexts: Can designers "industrialize" socially responsible solutions?*. *Design Issues*, 23(4), 3-21, (2007).
- Moussavi, F., & Kubo, M. (Eds.) *The function of ornament*. New York, USA: Actar, Harvard Graduate School of Design, (2006).
- Nilsson, Mats-Eric, *Den hemlige kocken*, Stockholm: Ordfront.
- Papanek, Victor, *Design for the Real World*, ISBN 0-394-47036-2.
- Pearce, P., *Structure in nature is a strategy for design*. Cambridge, USA: The MIT Press. (Original work published 1978), (1990).
- Piketty, T. (2014). *Capital in the twenty-first century*. Cambridge, Mass.: Belknap Press of Harvard University Press.
- Pollan, M. (2006). *The omnivore's dilemma: a natural history of four meals*. New York: Penguin Press.
- Reble, C., & Sachs, A. (Eds.), *Nature Design*. Baden, Switzerland: Lars Müller Publishers, (2007).
- Rogers, R. *Cities for a small planet*. London: Faber.
- Schlosser, E., *Fast food nation. What the all-american meal is doing to the world*. London, United Kingdom: Penguin Books, (2002).
- Sennett, R., *The craftsman*. London, United Kingdom: Penguin Books, (2009).
- Shell, E.R. (2009). *Cheap: the high cost of discount culture*. New York: Penguin Press.

- Silverthorn, B. (Producer), & Greene, G. (Director). End of suburbia. Oil depletion and the collapse of the American dream [Motion picture]. Canada: The Electric Wallpaper Co., (2004).
- Terzidis, K., Algorithmic architecture. Oxford, United Kingdom: Architectural Press, (2006).
- Thackara, J., In the bubble: Designing in a complex World. Cambridge, USA: The MIT Press, (2006).
- Thackara, J., Doors of perception. Retrieved from <http://www.doorsofperception.com/>.
- Thompson, D., On growth and form. New York, USA: Dover Publications, Inc. (Original work published 1942, (1992).
- Tickell, Crispin, Climatic Change and World Affairs.
- Williams, R., The geometrical foundation of natural structure: A source book of design. New York, USA: Dover Publications, Inc. (Original work published 1972), (1979).
- Willis, A. & Fry, T. (2015[????]). Steel: a design, cultural and ecological history.
- Wright, Georg Henrik von, Vetenskapen och förnuftet, Stockholm: Bonnier.

Contact and other information

Course coordinator: Professor Claus-Christian Eckhardt,

Claus.Eckhardt@design.lth.se

Course homepage: <http://www.ide.lth.se>

Further information: The course includes discussions and reviews, both in individual and group sessions. Students are expected to actively contribute in shaping their master education; identifying their goals, formulating their objectives and possible courses of action.