

ICT and sustainability, 7,5 credits

The course will give the students insights in sustainability and sustainable development in relation to ICT. The students will also reflect on their own phd-project in relation to sustainability.

Learning outcomes

After completion of the course, the student will be able to:

- orient oneself among different ideas of what constitutes sustainable development and sustainability
- elaborate on the role of ICT in relation to societal goals of economic, social and environmental sustainability,
- reflect on the possibilities and limitations of ICT in relation to the development of a sustainable society,
- formulate how sustainability relates to his/her own phd project.

Course form and content

The course will be given in the form of 9 bi-weekly three-hour long Wednesday seminars (with a few exceptions) during the fall of 2016 (August to December) plus a final seminar in January 2017.

Each seminar will treat a specific subject (for example "Definitions and delimitations", "Planetary boundaries", "Nearest neighbouring fields", "First, second and third order effects of ICT", "Environmental footprint of the Internet", "Computing with Limits").

The literature for each seminar will vary between 50-100 pages.

Each course participant is expected to read the literature before each seminar and actively contribute to the discussions.

Each course participant will write an essay in the course.

Disposition

Seminars

August: 24

September: 14, 28

October: 12, 19

November 9, 23

December 7, 21

January: 25 (discuss course papers, 09.00-15.00)

Note: All seminars are on Wednesdays (13:00-16:00) with the exception of the first (Thursday 13:00-16:00) and the last seminar (Wednesday 09:00-15:00).

Students should prepare for the seminars by reading the given literature and for each seminar

- one student is appointed to summarize the most important points of the literature
- one student is appointed to prepare questions to discuss in relation to the literature and
- one student is appointed to prepare criticism against the literature.

Writing a short essay and presenting it at the final seminar (in January 2017).

Eligibility

Literature

Course participants will read a selection of texts primarily in the form of journal or conference articles.

Examination

Active participation in seminars.

Written essay and presentation at the last seminar (January 2017).

Offered by

CSC/Media Technology and Interaction Design

Contact

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Examiner

Daniel Pargman

Version

Course plan valid from: August 2016.