

Transdisciplinary co-creation for sustainable urban development, 5 credits

Transdisciplinärt samskapande för hållbar stadsutveckling, 5 högskolepoäng

Course code:	FOES024
Third-cycle subject:	Industrial Economics and organization (IEO)
School:	EST
Valid from:	2024-10-17
Established by:	EST
Decision date:	2024-08-22
Last modified:	2024-08-22
Level of education:	Third cycle level

Course objective

The purpose of the course is to contribute to methodological knowledge and practically applied knowledge regarding co-creation around the development of knowledge and solutions for societal transitions for sustainable urban development. The focus is on theory formation and methods for co-creation as a transdisciplinary practice with a focus on how co-creation can support scientific production and at the same time function as a driving force in the transition work.

The course is mainly given to doctoral students in the doctoral school Future Proof Cities.

Course content

The course contains a general overview of theories for co-creation in research and development and for transition for sustainable urban development. The course also contains descriptions and analyzes of different working methods, models, tools and ways of organizing work processes with examples of how different actors have co-created around both sustainable change and a joint learning and development of knowledge.

The course is structured as three parallel tracks that run throughout the course and are connected in the course's different modules.

- *A theoretical track* with lectures and literature studies with a focus on the themes addressed in the learning objectives. This track is treated through discussions / reflection and small writing assignments based on literature and lectures.
- *A practical procedural track* that means that the doctoral student collaborates with his or her company and with the other doctoral students on a practical task (an internship case) based on the company's need for knowledge or product development and linked to the doctoral student project. The practical track is carried out at home at each company but is treated at combined workshops / seminars.
- *A reflection track* which means that the doctoral student takes notes on the practical track and gradually integrates theoretical aspects of this. The result should lead to a method description for co-creation that can be used for the dissertation's coat or equivalent in a scientific article, based on course literature and practical application of co-creative process methodology in the other two tracks.

Intended learning outcomes

After completing the course, the student should be able to:

- Describe different theories and practices regarding co-creation in research and development contexts
- Describe different orientations, theories and practices for transition for sustainable urban development and how these can form the basis for a co-creative research and development work in the interplay between research and professional practice
- Demonstrate insight into how different actors with different roles interact in co-creation situations and processes with a focus on achieving a common learning and a common knowledge capital in sustainable urban development
- Design and implement co-creation processes with a transdisciplinary, practice-oriented and action-oriented character and with a focus on sustainable urban development
- Formulate a method and implementation approach linked to one's own doctoral work based on theory of co-creation and adjustment for sustainable urban development and based on experience and reflections in the practical cases processed in the course.

The intended qualitative targets in relation to the Higher Education Ordinance, appendix 2.

Knowledge and understanding

For the Degree of Doctor, the doctoral student shall demonstrate:

- A1: broad knowledge and systematic understanding of the research field as well as advanced and up-to-date specialised knowledge in a limited area of this field, and

- A2: familiarity with research methodology in general and the methods of the specific field of research in particular.

Competence and skills

For the Degree of Doctor, the doctoral student shall demonstrate:

- B1: the capacity for scholarly analysis and synthesis as well as to review and assess new and complex phenomena, issues, and situations autonomously and critically,
- B2: the ability to identify and formulate issues with scholarly precision critically, autonomously, and creatively, and to plan and use appropriate methods to undertake research and other qualified tasks within predetermined time frames and to review and evaluate such work,
- B5: the ability to identify the need for further knowledge, and

Judgement and approach

For a Degree of Doctor the doctoral student shall demonstrate

- C1: intellectual autonomy and disciplinary rectitude as well as the ability to make assessments of research ethics, and
- C2: specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used.

Teaching formats

Lectures and seminars

Examination

The course have the following forms of examinations:

- Seminars (SEM) (2,5 cr)
- Assignment (INL) (1 cr)
- Promemoria (PM) (1,5 cr)

Attendance to scheduled activities is compulsory.

Grade

Examinations included in the course are assessed according to a two-grade scale, fail or pass.

Grades are to be decided by a teacher specially appointed by the university.

A person who has not passed the regular examination shall be given the opportunity to retake the test.

Requirements

Applicants admitted to doctoral studies at Mälardalen University (MDU), University of Gävle (HiG) or Dalarna University (DU) in the doctoral school Future Proof Cities are prioritised for participation in the course and the examinations.

Doctoral students admitted to other subjects at MDU, HiG or DU or other Swedish universities may be admitted to the course, subject to availability. Applicants meets the general entry requirements for participation in the course if they:

1. have been awarded a second-cycle (Master's) qualification,
2. have satisfied the requirements for courses comprising at least 240 credits of which at least 60 credits were awarded in the second-cycle, or
3. have acquired substantially equivalent knowledge in some other way in Sweden or abroad.

Selection criteria

The selection of applicants will be made with the ranking below.

1. Doctoral students in the doctoral school Future Proof Cities+
2. Other doctoral students at MDU, HiG or DU.
3. Doctoral students at other universities in Sweden.