Course Syllabus:

Environmental Engineering MA, Innovation Systems and Diffusion of Technology, 7.5 Credits

General data

Code: MÖ002A
Subject/Main field: Environmental Engineering
Cycle: Second cycle
Orientation (name): 7.5
Progressive specialisation: A1N, Second cycle, has only first-cycle course/s as entry requirements
Answerable institution: Ecotechnology and Sustainable Building Engineering
Adapted: 2007-09-20
Established: 2008-01-14
Date of change: 2018-01-25
Valid from: 2018-01-22

Aim
The objective of the course is that a student should acquire an understanding of barriers and opportunities to diffusion of innovations
Course objectives
At the end of the course a student should be able to:
- Explain a technology transition process
- Analyze barriers and opportunities to technology transfer
- Apply systems of innovation concept to explain various factors facilitating and obstructing creation and diffusion of innovations
- Identify adopter categories and attributes of an innovation that affect speed of diffusion of that innovation
- Describe the role of change agents and information channels in diffusion of innovations
- Analyze decision-making process of an individual to adopt an innovation and how such decisions can be influenced
- Analyze factors affecting adoption of innovations in organizations

Content
The course provides an overview of the concept of systems of innovation and a thorough understanding of theories of diffusion of innovation process.

Entry requirements
Degree of Bachelor of at least 180 credits (180 ECTS) or equivalent, with at least 30 credits (30 ECTS) in total from one or several of the following fields of study:
- Environmental Science
- Environmental Technology
- Environmental Engineering
- Environmental Law

Selection rules and procedures
The selection process is in accordance with the Higher Education Ordinance and the local order of admission.

Teaching form
The teaching is given as lectures, seminars and various exercises. Computer applications may be included. Attendance may be compulsory for some of the teaching.
Examination form

L100: Literature seminars - , 1.0 hp
Grading: The grades A, B, C, D, E, Fx and F are given on the course. On this scale the grades A through E represent pass levels, whereas Fx and F represent fail levels.

P100: Project, written and oral examination - , 3.5 hp
Grading: The grades A, B, C, D, E, Fx and F are given on the course. On this scale the grades A through E represent pass levels, whereas Fx and F represent fail levels.

T100: Written examination - , 3.0 hp
Grading: The grades A, B, C, D, E, Fx and F are given on the course. On this scale the grades A through E represent pass levels, whereas Fx and F represent fail levels.

Literature seminars 1 credits
Project 3.5 credits
Written exam 3 credits

Grading system
The grades A, B, C, D, E, Fx and F are given on the course. On this scale the grades A through E represent pass levels, whereas Fx and F represent fail levels.

Other information
The course is offered in English.

Course reading