HN2024 Planning and Design of Physical Work Environments 7.5 credits

Planering och utformning av fysiska arbetsmiljöer

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for HN2024 valid from Autumn 2018

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Technology and Health

Specific prerequisites

Academic first degree, 180 higher education credits/ECTS, in engineering or natural sciences or equivalent education.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

- Describe and discuss design projects, their management, and in which stages and contexts different sub-processes and methods are suitable.

- Describe and discuss the involvement of different stakeholders, their roles and political navigation in the planning process.

- Describe different methods, models and tools for planning.

- Choose and use relevant planning methods and models that are central for the course and reflect on their usefulness and relevance.

- Describe and discuss planning in practice.

- Give proposals of how to design workplaces and equipment in a practical case.

Course contents

The course includes lectures, workshop seminars, project work performed in groups, and examinations. Topics covered are planning processes, architectural drawings as documentation, laws and regulations, planning methods and design tools, and case studies

Course literature

Technology and work on human terms, 2011, Prevent

Planning office spaces, van Meel et al.

Horgen et al. Excellence by design

Reports and handouts (Knowledge crossing boundaries, Souza da Conceição et al. 2016; Anderssen, Participatory simulation booklet"

Wilson J and Sharples S, eds, Evaluation of human work, Fourth ed. CRC Press, 2015

Scientific papers presented at the course start and listed on the course web

Examination

- SEM1 - Seminars, 1.5 credits, grading scale: P, F
- PRO1 - Assignment Case Project, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Requirements for final grade:

Active participation in seminars and other exercises

Written and oral presentation of assignments

Finalize a case project

Other requirements for final grade

• SEM1 - Workshop seminars, 1.5 hp, grade scale: P, F

• PRO1 - Assignment case project, 3 hp, grade scale: P, F

• TEN1 - Examination, 3 hp, grade scale: A, B, C, D, E, FX, F

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.