

## **SYLLABUS**

# **Climate, Project Course 7.5 credits F7012B**

**Klimat, projektkurs**

**Course syllabus admitted: Spring 2016 Sp 4 - Spring 2017 Sp 4**

**DECISION DATE  
2016-01-13**

# Climate, Project Course 7.5 credits F7012B

## Klimat, projektkurs

### Second cycle, F7012B

**Education level**  
Second cycle

**Grade scale**  
G U 3 4 5

**Subject**  
Arkitektur

**Subject group (SCB)**  
Architecture

## Entry requirements

The course F7009B Climatic conditions or equivalent basic knowledge of climate and course F7006B climate, landscape and buildings, or equivalent knowledge of the relationship climate and development and the course F7011B Climate and Human Activity, or equivalent knowledge of the relationship between humans and climate.

## Selection

The selection is based on 30-285 credits

## Examiner

Kristina Nilsson

## Course Aim

Knowledge of:

- Building forms with respect to different aspects of climate.
- Urban forms with respect to different aspects of climate.
- Resilience: the ability to respond to changes in climate conditions.
- Computer support for calculation / simulation of climatic conditions and design of urban and architectural forms.

Ability to:

- Apply knowledge of people's outdoor and indoor environments in different climatic conditions.
- Undertake project work in urban planning and building construction and show examples that meet people's needs and preferences in relation to climate change.
- Apply knowledge of life inside and outside in various climate conditions.

## Contents

Light - Darkness  
Sun - Shadow  
Light - Darkness  
Sun - Shadow  
Wind - lee  
Snow - rain  
Computer Support  
city forms  
Building forms  
Adapting to location and local climate

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Lectures  
Individual assignments  
Group assignment  
Seminar on scientific literature within the subject

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

Home exam based on scientific literature

Seminar with discussion of the scientific literature

Assignment: Ideas for how outdoor and indoor environments can be designed to satisfy people's medical, psychological, social needs, demands and experiential desires.

## Literature. Valid from Spring 2016 Sp 4

Creswell. J. W. (2012). Qualitative inquiry and research design: Choosing among five approaches. Sage publications.

Creswell, J. W. (2013). Research design: Qualitative, quantitative, and mixed methods approaches. Sage.

DeKay, M., & Brown, G. Z. (2013). Sun, wind, and light: Architectural design strategies. John Wiley & Sons.

Locke, L. F., Spirduso, W. W., & Silverman, S. J. (2013). Proposals that work: A guide for planning dissertations and grant proposals. SAGE Publications, Incorporated.

Shank, G. D. (2002). Qualitative research: A personal skills approach. Prentice Hall.

Ward, K. (2014). Researching the city. Sage.

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Items/credits

Number	Type	Credits	Grade
0001	Assignment report - group	7.5	G U 3 4 5

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

## Last revised

by Eva Gunneriusson 2016-01-13

## Syllabus established

by Eva Gunneriusson 2013-02-07