LUND UNIVERSITY

LTH
FACULTY OF ENGINEERING

Course syllabus

Ljus och färg
Light and Colour

AAMA05, 3 credits, G1 (First Cycle)

Valid for: 2023/24
Faculty: Faculty of Engineering, LTH
Decided by: PLED A
Date of Decision: 2023-03-28

General Information

Main field: Industrial Design.
Compulsory for: KID2
Language of instruction: The course will be given in English on demand

Aim

The aim of the course is to give knowledge about light and colour as important parts of the human surroundings and the basics for good lighting and colour planning. Further the aim is to give knowledge about light- and colour perception and about the impact of light and colour on the experience of the environment. The aim is also to present recent research on the impact of light and colour on human well being and health.

Learning outcomes

Knowledge and understanding
For a passing grade the student must

- have some knowledge about environmental psychology research questions and be able to discuss those issues in relation to light and colour.
- have knowledge on how to interpret and apply environmental psychology light and colour research.

Competences and skills
For a passing grade the student must

- independently understand the literature presented.
- suitable be able to apply to knowledge in lighting design.

Judgement and approach
For a passing grade the student must

- critically analyze and discuss environmental psychology light and colour aspects in relation to the design of other products.

Contents

The course consists of lectures that presents environmental psychology research about the importance of light and colour on human experiences and well being. The lectures are complemented with seminars and external experts on relevant problems such as different light sources, trends in colour and luminaries construction.

The content of the course is the following:

Environmental psychology an overview

Subjective and objective effects of light and colour

Perceptual psychology phenomenon

visual and non-visual reactions

preferences and trends

subjective and objective measure techniques

light sources, electronics an overview

light design and user demands

study journey

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)
Assessment: 80% attendance. Home exam.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

The number of participants is limited to: No
The course overlaps following course/s: AAM030, AAMA01

Reading list

- Fridell Anter, K. & Klarén, U. 2017. Colour and Light Spatial Experience, Routledge.
- Fördjupning:.
- - Fridell Anter, K. (red.), 2006. Forskare och praktiker om färg – ljus - rum. Formas, Stockholm.
- - Hård, A., Küller, R., Sivik, L. & Svedmyr, Å. 1995. Upplevelse av färg och färgsatt miljö. Färgantologi bok 2, Byggforskningsrådet, Stockholm.
- - Hjertén, R., Mattsson, I & Westholm, H. 2001. Ljus inomhus. Arkus, Stockholm.
- - Küller, R. 2004. Planning for Good Indoor Lighting. Building Issues, 14 (1). Lund University.

- - Starby, L. 2003. En bok om belysning. Ljuskultur, Stockholm.

Contact and other information

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Course homepage: http://www.arkitektur.lth.se/