



## COURSE SYLLABUS

# Lighting Science, 6 credits

*Belysningsvetenskap, 6 högskolepoäng*

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<b>Course Code:</b> TBVN19	<b>Education Cycle:</b> First-cycle level
<b>Confirmed by:</b> Dean Dec 4, 2018	<b>Disciplinary domain:</b> Technology (75%) and social sciences (25%)
<b>Revised by:</b> Director of Education Oct 4, 2021	<b>Subject group:</b> TE9
<b>Valid From:</b> Jan 1, 2022	<b>Specialised in:</b> G2F
<b>Version:</b> 2	<b>Main field of study:</b> Product Development

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall:

Knowledge and understanding

- display knowledge of basic lighting theory in lighting science
- display knowledge of applicable methods in lighting research
- display knowledge of ongoing lighting research

Skills and abilities

- demonstrate the ability to distinguish ethical issues relevant to the subject
- demonstrate the ability to relate research results to lighting planning in practice
- demonstrate skills of executing and reporting research in relation to lighting design

Judgement and approach

- demonstrate the ability to critically debate and justify, in writing, scientificity
- demonstrate the ability to critically assess and evaluate a scientific report

### Contents

The course 'Lighting Science' focusses on scientific lighting research, knowledge about different research methods, ethical issues, and knowledge dissemination via academic writing. It contains examples and exercises for students to get acquainted with a scientific and ethical approach within the lighting design process.

The course includes the following elements:

- Lighting science orientation
- Science related to lighting design practice
- Ethical issues
- Academic writing
- Assessment of scientific quality
- Training in a critical approach and discussion

### Type of instruction

The course has lectures, seminars and exercises.

The teaching is conducted in English.

### **Prerequisites**

General entry requirements and completed courses 60 credits in first cycle, and completed course Research Methods and Communication, 6 credits (or the equivalent).

### **Examination and grades**

The course is graded 5,4,3 or Fail.

Registration of examination:

<b>Name of the Test</b>	<b>Value</b>	<b>Grading</b>
Examination	6 credits	5/4/3/U

### **Course literature**

The literature list for the course will be provided 8 weeks before the course starts.

Other material