

COURSE SYLLABUS

Lighting Masterplan, 7.5 credits

Programskrivning, 7.5 högskolepoäng

Course Code: TPSN16	Education Cycle: First-cycle level
Confirmed: Sep 01, 2025	Disciplinary domain: Technology
Valid From: Aug 31, 2026	Subject group: Other Subjects within Technology
	Specialised in: G2F First cycle, has at least 60 credits in first-cycle course/s as entry requirements
	Main field of study: Built Environment

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and Understanding

- display knowledge of the purpose of a lighting masterplan.
- demonstrate comprehension of the key aspects of a lighting masterplan, both technically and visually.
- demonstrate comprehension of the effects of different types of lighting masterplans in urban environments.

Skills and Abilities

- demonstrate the ability to write a lighting masterplan.
- demonstrate the ability to conduct analyses and gather relevant information about a location.
- demonstrate the ability to discuss light pollution, social lighting, and ecological lighting.
- demonstrate the ability to develop a lighting masterplan and communicate its contents to clients and users.
- demonstrate the ability to use digital tools to create drawings, illustrations, and other supporting materials.

Judgement and Approach

- demonstrate the ability to assess a lighting masterplan and interpret and relate to its content.
- demonstrate the ability to communicate and provide information to various stakeholders in urban development through lighting programmes.

Content

The course covers the different parts of a lighting masterplan and the process for developing such a plan. It includes theoretical, practical and user-oriented aspects of producing and applying a lighting masterplan.

In addition, overarching administrative issues related to investigation, design and programming of lighting control are studied. User perspectives as well as economic and energy-related issues associated with the design and use of control systems are also addressed.

The course also addresses how Computer Aided Design (CAD) is used and provides knowledge of its application.

The course includes the following elements:

- Analysis methods
- Information gathering
- Analysis of existing lighting masterplans

- Analysis of premises and/or buildings as a basis for designing lighting masterplans
- Writing and designing lighting masterplans
- Presentation and communication techniques
- Building regulations and requirements
- Study of current research in the field
- Computer aided design (CAD)

Type of Instruction

Lectures, exercises, seminars, study visits, and workshops.

Language of instruction is English.

Entry Requirements

General entry requirements and taken courses 60 credits in first cycle within the program Lighting Design and Technology, including Basics in Light Source and Luminaire Proficiency, 6 credits or Basics in Light Source and Luminaire Proficiency, 9 credits, as well as project experience (or the equivalent).

Examination and Grades

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

Registration of examination:

Name of the Test	Value	Grading
Project ¹	3.5 credits	5/4/3/U
Laboratory	4 credits	G/U

¹Determines the final grade of the course, which is issued only when all course units have been passed.

Course Literature

Please note that the course literature may be revised up to eight weeks before the start of the course.

Allen Downey, Jeffrey Elkner, Chris Meyers, *Urban Lighting, light pollution and society
Routledge. ISBN 9781138813977.