



COURSE SYLLABUS

Lighting Masterplan, 9 credits

Programskrivning, 9 högskolepoäng

Course Code: TPSN12	Education Cycle: First-cycle level
Confirmed by: Dean Mar 1, 2020	Disciplinary domain: Technology
Valid From: Aug 1, 2020	Subject group: TE9
Version: 1	Specialised in: G2F
	Main field of study: Product Development

Intended Learning Outcomes (ILO)

After completing the course, the student shall:

Knowledge and understanding

- display knowledge of the purpose of a lighting master plan
- demonstrate comprehension of the main aspects of a lighting plan, both technically and visually
- demonstrate comprehension of the impact of different types of lighting master plan in urban environment

Skills and abilities

- demonstrate the ability to write a master plan
- demonstrate the ability to conduct analyzes and gather meaningful information about a location
- demonstrate the ability to set sustainable lighting principles in a lighting plan
- demonstrate the ability to discuss light pollution, social lighting and ecological lighting
- demonstrate the ability to create and interpret lighting plans based on regulations and recommendations
- demonstrate the ability to formulate a lighting plan to ensure the quality of the planning process and communicate the contents to clients and users

Judgement and approach

- demonstrate the ability to take part of a lighting plan, be able to interpret and relate to its content
- demonstrate the ability to communicate and give information to different parties in the community building process through lighting master program

Contents

This course includes the following elements:

- Methods of analyzation
- Information gathering
- Analysis of existing master plans
- Analysis of locations and/or buildings as a basis for design of lighting plans

- Writing and designing lighting plans
- Presentation and communication techniques
- Construction regulations and requirements
- Study of current research in the area

Type of instruction

Lectures, exercises, seminars, study visit and workshops

The teaching is conducted in English.

Prerequisites

General entry requirements and completed courses 60 credits in first cycle within the program, 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 Fail.

Registration of examination:

Name of the Test	Value	Grading
Lighting Masterplan ¹	5 credits	5/4/3/U
Exercises/Laboratory work	4 credits	U/G

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

Course literature

The literature is preliminary until one month before the course starts.

Title: Urban Lighting, light pollution an society
 Author: Allen Downey, Jeffrey Elkner and Chris Meyers
 Publisher: Routledge
 ISBN: 9781138813977

Title: Light Shapes Spaces Experiences of Distribution of Light and Visual Spatial Boundaries
 Author: Ulrika Wänström Lindh
 Publisher: Unknown
 ISBN: 978-91-979993-2-8

https://gupea.ub.gu.se/bitstream/2077/31448/1/gupea_2077_31448_1.pdf

http://www.luciassociation.org/magazine/Cities-Lighting-003/sid_12-27

https://stud.epsilon.slu.se/9743/1/zetterlund_%20i_161005.pdf

<https://www.archdaily.com/873091/how-zurichs-understated-night-lighting-strategy-enhances-local-identity>

https://www.alingsas.se/sites/default/files/tryggt_ljus_principer.pdf

<http://www.diva-portal.se/smash/get/diva2:833486/FULLTEXT01.pdf>

<https://ieeexplore.ieee.org/document/7165244/>

<https://ieeexplore.ieee.org/document/7996886/>

<http://www.lse.ac.uk/business-and-consultancy/consulting/assets/documents/social-research-in-lighting-design.pdf>