Programme syllabus

Master's Programme, Architectural Lighting Design, 60 credits
Magisterprogram, ljusdesign
60.0 credits

Valid for students admitted to the education from autumn 20 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

The information is valid for students starting 2020-2021.

Please check www.kth.se for information about the latest study plan.

Beyond the objectives which are specified in the Higher Education Degree Ordinance, there are also specific goals for the Architectural Lighting Design programme.

A student who has completed the programme should be able to:

Knowledge and understanding

- Demonstrate a broad theoretical and experimental based knowledge in the area of light and lighting, electric and day-lighting, and the relation with individual and social performance and well-being
- Demonstrate knowledge and understanding of methods, processes, theories and advanced tools in the area of Architectural Lighting Design and their impact in shaping future and existing built and natural environments.

Skills and abilities

- Independently identify, formulate, analyze and solve problems in the area of Architectural Lighting Design, for electrical and daylight solutions
- Apply a holistic design approach which takes in consideration the spatial context, visual, perceptual, biological impact of light, normative and sustainability questions
- Formulate, plan and deliver a concept for outdoor and indoor architectural lighting following the Design process and the KTH method within predetermined parameters
- Apply advanced techniques and tools in the area
- Demonstrate ability to teamwork and collaboration
• Present, discuss and communicate results to an academic and professional international audience, in written and oral form, using the most appropriate techniques and tools to illustrate and visualize visions, concepts and solutions.

**Ability to make judgements and adopt a standpoint**

• Critically comment and independently evaluate results in the area
• Show a professional and ethical responsibility in scientific, technical, ecological and social activities.
• Recognize that Architectural-related problems, considered from a design, building and urban perspective are often complex, can be incompletely defined and sometimes contain conflicting conditions.
• Track developments within the discipline and analyze how these will affect planning practice.
• Define needs for learning opportunities in order to improve professional capacity.

KTH’s local degree ordinance can be found in KTH’s guidelines, www.kth.se.

**Extent and content of the programme**

The programme consists of a one-year full time studies corresponding to 60 credits.

Educational level is advanced.

The teaching language is English.

**Eligibility and selection**

In order to be eligible to apply to the master’s programme, a higher education degree of at least 180 higher education credits of Bachelor’s degree in Architecture, Design or Engineering must be completed. The Engineering degree must contain at least 30 credits of Architecture and Design subjects. These credits will be assessed by the Lighting Design department in the selection process. Exceptions can be made on the basis of professional experience.

When we evaluate your application we would like to learn:

• why you want to study Architectural Lighting Design
• why you want to study Architectural Lighting Design at KTH
• how your academic and professional background contributes to studying this programme
• what is your professional ambition after completion of the education

The English language proficiency should be equivalent to (the Swedish upper secondary school) English course B/6.

The selection process is based on these selection criteria:

University and previous studies (GPA or previous academic assessment, grades in specific subjects and English).
KTH Lighting Design will evaluate the candidates according to these specific compulsory requirements:

- Portfolio: deliver proof or your capacity to use a design approach to find solutions for a specific question. The information can be from previous education and/or professional experience and/or personal independent work. The document will be evaluated through these criteria:
  - Design Experience
  - And/or Lighting Design Experience
  - Type and level of refinement of the project
  - Understanding of context
  - Layout and Style

- Two recommendation letters
- Short CV
- Letter of motivation, maximum 1 page

The evaluation scale is 1-75.

For eligibility requirements and selection criteria, please refer to KTH's admission regulations in KTH regulations www.kth.se.

**Implementation of the education**

**Structure of the education**

The academic year is 40 weeks and is divided into two semesters, autumn and spring. Each semester consists of two study periods. The program starts in late August and ends in the beginning of June the following year.

The programme includes nine months taught courses, which sums up to 60 credits; (1.5 credits corresponds to one week of full time studies.

**Courses**

The programme is course-based. Lists of courses are included in appendix 1.

**Grading system**

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

Information regarding the scale found in the curriculum.

**Conditions for participation in the programme**

För deltagande krävs antagning till kurs inom programmet samt registrering på kurs. Kursregistrering görs via den personliga menyn på www.kth.se
For students starting their education from the autumn semester 2018, previous promotion requirements have been replaced with special admission requirements to each course. Admission requirements are specified in the course syllabus.

**Recognition of previous academic studies**

Students have the possibility to apply for recognition of previous academic studies from course(s) at another higher education institution or university, both national and international.

KTH’s entire policy for recognition of previous academic studies can be found in KTH’s guidelines: Policy on credit transfer

**Degree project**

The degree project is a course compromising 15 ECTS meaning it should cover 10 weeks full time studies. The thesis work should not include other courses (with own course codes).

The degree project is the final part of the education. The project work may begin when special admission requirements for the course are fulfilled.

Information regarding the grading scale on the degree project refer to the syllabus.

KTH’s rules for the degree project for the Master’s degree can be found in the KTH Guidelines: Degree projects

**Degree**

To achieve the Master's degree students must have passed the courses equivalent to at least 45 credits, including all courses (mandatory) and a thesis of 15 credits in the Master's program.

**Application for Degree**

The application for degree is done under the personal menu on KTH:s webb page.

Appendix 1 - Course list
Appendix 2 - Programme syllabus descriptions
Appendix 1: Course list

Master's Programme, Architectural Lighting Design, 60 credits (TLODM), Programme syllabus for studies starting in autumn 2020

General courses

Year 1

Mandatory courses (60.0 Credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF270X</td>
<td>Degree Project in Architectural Lighting Design, Second Cycle</td>
<td>15.0 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HS2007</td>
<td>Light and Humans</td>
<td>9.0 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HS2008</td>
<td>Light and Space-Outdoor</td>
<td>12.0 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HS2009</td>
<td>Light and Space-Indoor</td>
<td>15.0 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HS2010</td>
<td>Light and Science</td>
<td>9.0 hp</td>
<td>Second cycle</td>
</tr>
</tbody>
</table>
Appendix 2: Specialisations

Master's Programme, Architectural Lighting Design, 60 credits (TLODM), Programme syllabus for studies starting in autumn 2020

This programme has no specialisations.