Programme syllabus

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

Valid for students admitted to the education from autumn 17 (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 2017-2018.

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.

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

The selection process is based on the following selection criteria: University, previous studies (for instance GPA, grades in specific subjects and English), motivation for the studies (for instance letter of motivation, references and relevant work experience). 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**

**Semester registration and Course registration**

A prerequisite for a students' participation in studies at KTH is that the student performs a course registration and semester registration for each semester.

Registration is done under the personal menu on the KTH:s webb page

Course registration is done by all students on the program www.antagning.se

**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).

Generally, a larger portion of the studies must be completed before the degree project can be started. At least 30 ECTS should be completed out of the 45 ECTS that the programme comprises not considering the 15 ECTS of the degree project.

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 2017

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></td>
<td>This course can be replaced by HS200X with grading scale A to F for older admitted students</td>
<td></td>
<td></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>

Supplementary information

KTH’s president has decided that starting 2015-07-01, the grades of pass (P) and fail (F) shall be used for degree projects. Students who began their studies between 2007-07-01 and 2015-06-30 may apply to conduct their degree projects under the grading scale A-F. Such an application shall be made prior to registration in a degree project course, and prior to starting the course.
Appendix 2: Specialisations

Master's Programme, Architectural Lighting Design, 60 credits (TLODM), Programme syllabus for studies starting in autumn 2017

This programme has no specialisations.