Master Programme in Sustainable Urban Design: Programme syllabus

Master Programme in Sustainable Urban Design

Programme code: TASUD
Scope: 120 credits
Cycle: Second
Approved by: Educational Programmes Board D
Validity: 2015/2016
Date of approval: 16 April 2015
In addition to the syllabus, general regulations and information for the Faculty of Engineering apply to this programme.

1 Aim and outcomes

1.1 Aim
This internationally oriented master’s programme aims to develop the knowledge, skills and judgement of students in the field of sustainable urban design. The programme is aimed at meeting the need for urban designers who
- from a humanist perspective, contribute with advanced design skills to urban processes of change nationally and internationally;
- initiate and implement urban development focused on urban environments that are sustainable in the long term;
- develop the fundamental artistic understanding and approach of the urban design profession.

The expected learning outcomes listed below are intended to ensure that these aims govern the focus and implementation of the programme.

1.2 Outcomes for a Degree of Master of Science (120 credits)
(Higher Education Ordinance 1993:100)

Knowledge and understanding
For a Degree of Master of Science (120 credits) the student shall
- demonstrate knowledge and understanding in the main field of study.

Competence and skills
For a Degree of Master of Science (120 credits) the student shall
- demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrate the ability in speech and writing both nationally and internationally to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or autonomous employment in some other qualified capacity.

Judgement and approach
For a Degree of Master of Science (120 credits) the student shall
- demonstrate the ability to critically and systematically integrate knowledge of long-term sustainability in complex urban design and planning processes,
- demonstrate the ability to identify, analyse, assess and handle complex urban issues independently, critically, and creatively and to formulate relevant strategies for change,
- demonstrate the ability to plan and, using appropriate methods, undertake advanced design tasks within a given time period,
- demonstrate the ability in speech, writing and visual presentations in both national and international contexts, to clearly report and discuss their conclusions and proposals;
- demonstrate the ability to plan and design urban structures at several strategic scales, and
- demonstrate the skills required for participation in research and development work in the field of urban planning and design.

Knowledge and understanding
For a Degree of Master of Science (120 credits) in Architecture students shall
- demonstrate knowledge and understanding of the role of urban design in the long-term development of a sustainable society,
- demonstrate in-depth methodological knowledge with regard to urban design processes, and
- demonstrate a significant insight into international research and development work in urban design and sustainable urban development.

Competence and skills
For a Degree of Master of Science (120 credits) in Architecture students shall
- demonstrate the ability to critically and systematically integrate knowledge of long-term sustainability in complex urban design and planning processes,
- demonstrate the ability to identify, analyse, assess and handle complex urban issues independently, critically, and creatively and to formulate relevant strategies for change,
- demonstrate the ability to plan and, using appropriate methods, undertake advanced design tasks within a given time period,
- demonstrate the ability in speech, writing and visual presentations in both national and international contexts, to clearly report and discuss their conclusions and proposals;
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- demonstrate the ability to identify, analyse, assess and handle complex urban issues independently, critically, and creatively and to formulate relevant strategies for change,
- demonstrate the ability to identify their need for further knowledge and take responsibility for their ongoing learning.

1.4 Further studies
On completion of the second-cycle degree, students have basic eligibility for third-cycle studies.

2 Programme structure
The first three semesters of the programme consist of nine compulsory courses which are also optional specialisation courses in the Master of Architecture programme. Each semester includes a design project of 15 credits that is integrated with a course in theoretical specialisation and an overview course of 7.5 credits each. The timetable for the courses is explained in the student handbook for the Architecture programme. Semester 4 of the programme consists of a degree project worth 30 credits. The language of instruction for all courses is English.

2.1 Courses
The courses included in the programme are indicated in the timetable.

3 Specific admission requirements

3.1 Admission requirements
A Bachelor's degree in architecture, landscape architecture, physical planning or urban design. A digital portfolio of their own work in the field that clearly prove that the applicant has good potential to benefit from the programme. Students must also have documented proficiency in English corresponding to at least English 6 in Swedish upper secondary school.

4 Degree

4.1 Degree requirement
For a Degree of Master of Science (120 credits) in Architecture students must successfully complete courses comprising 120 credits, including a degree project worth 30 credits. 75 credits must be second-cycle credits, including the degree project.

4.1.1 Degree project
For a Degree of Master of Science (120 credits) in Architecture student must complete an independent project (degree project) of no less than 30 credits as part of the course requirements. The degree project must be completed in accordance with the valid course syllabus and must deal with a relevant subject. The student may commence work on the degree project when at least 75 credits of courses can be included in the degree.

4.2 Degree and degree certificate
When students have completed all the degree requirements, they are entitled to apply for a degree certificate for a Master of Science (120 credits) in Architecture. Main Field of Study: Architecture with specialisation in Sustainable Urban Design.

5 Special regulations

5.1 Semester structure
The Master's programme in Sustainable Urban Design is not divided into study periods. This means that teaching is scheduled throughout the semesters.

5.2 Field exercises
The teaching includes study trips, inventories, surveying, environmental studies etc. as an integral part of the training. Any costs related to these activities are to be covered by the students themselves.

5.3 Portfolio
The students are to collect their blueprints and other materials in a portfolio dedicated to the purpose that is to be available for assessment.