Det Kongelige Danske Kunstakademis Skoler
for Arkitektur, Design og Konservering

Undervisningsplan 2018/2019

Programme: Architecture and Extreme Environments

Title: Architectural project

Semester: Spring semester 2019

Semester Theme: Technology and Practice - Programme and Project

Period: : 4. februar – 28. juni 2019

ECTS-points: 30

Contents:

The programme aims to develop a site-specific and technology-focused understanding of architecture, as a response to present and future global challenges, including those defined as UN Global Goals. The second semester will focus on developing the architectural program, as a direct evolution from the investigations developed in the previous semester, incorporating the knowledge acquired on site and through the relevant technological and scientific network, while exercising a critical perspective throughout the process and incorporation research methodologies acquired. The program capitalizes on the potential of a link between 1st and 2nd semesters, strengthening the requirements for a continuum and direct evolution/link between their learning goals. The projects aim towards a “building” or a “building component” scale and will be developed in detail describing their performance, materiality and relevance in the region, as well as exemplifying the technological aspects, which capitalize on a symbiotic, resilient and sustainable approach to building design. A focus on simulation tools to inform and assess design will be presented throughout the semester. The programme emphasizes an aesthetics that embraces technology and performance as design potentials.

Tasks

-Written architectural program.
-Generating a design project based on the architectural program, at the relevant scale and formalized with the relevant media formats.
-Workshops and lectures which will introduce the students to new tools and techniques of qualifying, manufacturing, simulating and informing performance aspects of their design work.
-Lectures and consultancies regarding technical aspects of building design.
-Lectures and seminars dealing with systems of representation.
-Collective and comprehensive project presentations, incorporating relevant media as to communicate the projects process, evaluation, design and resolution.
- Oral presentation and written formulation: To produce a portfolio which is a comprehensive semester work presentation, incorporating relevant media, including references, process, reflection and conclusions, evaluations and resolutions.
-Written daily log and considerations on technological development , critical reflections and relevant references of the students projects.
-Establishment of a collaboration or dialogue with industry partners.

Courses:

- Art, Technology and Architecture workshop, Environmental Performance Simulation Design Workshop, Collage workshop; concept and design, Rhetoric workshop.

Learning Outcomes (Knowledge, skills and competences)

Program and Project

-Knowledge of methods of critical reflection on the impact of technology on site/culture and formal aspects of design (non positivist approaches to technology and design)
-Knowledge of present understanding of the implications of technology and production in our society.
-Knowledge of present technological developments to be applied or inspired by, and to be implemented in architectural design.
-Knowledge of present artistic practices challenging our understanding of spatial design.
-Skills in transforming the acquired knowledge into a set of design parameters for the purpose of formulating an architectural program.

Technology and Practice

-Knowledge of construction principles, from structure to envelope and light conditions.
-Knowledge of material performance.
-Knowledge of sustainable manufacturing processes within the realm of construction.
-Skills in representation, 2d, 3d and alternative media.
-Skills in the use of simulation software to test performance and inform design throughout the process.
-Skills in applied artistic design.
-Competencies in production of detailed architectural drawings and models to facilitate a critical architectural discussion.
-Competencies in architectural proposal.
-Competencies in collaborations and process development, within IBT, KADK and international experts and institutions.
-Competencies in collaborations and process development with industry and practise, in Denmark and the studied region.

-Competencies in oral and written presentation.

Professional progression

During the master programme’s four semesters, the learning goals connected to the eight central themes set in the associated study regulations, are managed through professional progression, with each semester having a specific, but not exclusive, focus on a selection of themes. The progression is ensured through increased requirements to the level of each students knowledge, skills and competencies.

Attendance requirements:

Submission requirements:

Students are required to attend all lectures, workshops, fieldwork activities, reviews and tutorials and be on time.	1. Comprehensive design portfolio that records and reflects upon the semester's work. 2. Project proposal in relevant media and scales. 3. Verbal presentations for each review. 4. Visual 2d and 3D presentation material for each review. 5. Architectural program. 6. Process log.
Syllabus: 200 pages minimum (titles given in the semester plan).	**Method of assessment:** Oral examination **Grading**: Danish 7-point grading scale **Censor**: Internal