



## Programme: Architecture and Extreme Environments

## Title: Investigation and fieldwork

<p><b>Semester:</b> Autumn semester 2018</p> <p><b>Semester Theme: Concept and Medium - Theory and Method</b></p>	<p><b>Period:</b> 3. september 2018 – 25. januar 2019</p> <p><b>ECTS-points:</b> 30</p>
<p><b>Contents:</b></p> <p>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 first semester will centre on the understanding of the context/theme/site and its relevant challenges in habitation and the built environment. The semester's work is divided into the phases; Information gathering, Prototype, Fieldwork, Formalization and Communication. The fieldwork revolves around the testing of prototypes that are designed to explore a certain theme and/or survey a chosen site. Emphasis is given to an understanding of the formal and artistic implications of the designs in the given contexts and how the design can instigate a dialogue with its surroundings. These exercises will culminate in the formulation of a preliminary architectural program. The main formats of engagement during this semester will be investigation, literature search, sketching, manufacturing, written work, on-site field exploration, collaborations with practices and manufacturers both at home and abroad and group work. A theoretical positioning is a pivotal part of this program, which translates into a continuous series of reading and writing activities focused on critical thinking. This year's theme and area of study is Alaska, in collaboration with NASA, Space Center Houston.</p> <p><b>Tasks:</b></p> <ul style="list-style-type: none"> <li>- Mapping of data and fact collection of the context in question through relevant literature, drawings and other sources. Working in groups and using relevant research methodologies. Presented in A2 format as infographics.</li> <li>- Graphic data and information formalization: Drawings and other relevant representations exemplifying details and performance of prototypes in 2D and 3D as well as through simulation software.</li> <li>-Production of material identifying relevant areas of investigation to be manifested as a prototype.</li> <li>-Manufacture of prototypes dealing with digital manufacturing, design and performance measurements and aesthetic considerations.</li> <li>-Design, test and manufacture 1:1 functioning prototypes that explore critical relationships between artistic design, performance driven design and site-specificity.</li> <li>-To inform the 1:1 prototypes thorough engagement with manufacturers, experts and state of the arts.</li> <li>-To test the prototype on site and derive, record and assess the results, while utilizing the prototype to engage and survey the context towards the development of an architectural program.</li> <li>-Written preliminary architectural program.</li> <li>-To produce a portfolio which is a comprehensive semester reflective work presentation.</li> <li>-Production of a video documenting the fieldwork.</li> <li>-Written work; essay and scientific report.</li> <li>-Physical curating and manifestation of the semester work in exhibition format.</li> </ul> <p><b>Courses:</b> Time Based Representation: Aesthetics and performance through the lens, Sensing the Environment, Arts and Science seminar, Scientific Methodology, Critical Thinking seminar, Wood and metal workshop introduction, KASB library course, Adobe Premier and After Effects course.</p>	<p><b>Learning Outcomes (Knowledge, skills and competences)</b></p> <p>Theory and Method</p> <ul style="list-style-type: none"> <li>-Knowledge of critical thinking methodologies.</li> <li>-Knowledge and critical approach to site-specificity.</li> <li>-Knowledge of applied research principles within the discipline of architecture.</li> <li>-Knowledge of academic, artistic and practice-based methods.</li> <li>-Skills in searching, selecting and assessing relevant data and state of the art.</li> <li>-Skills in applying and using relevant measuring tools.</li> <li>-Skills in detailed simulation and assessment of architectural performance.</li> <li>-Competencies in argumentative project development in relation to the programs specialization.</li> </ul> <p>Concept and Medium</p> <ul style="list-style-type: none"> <li>-Knowledge of technologies/sciences related to the theme, and how they can be applied to enhance architectural performance and inform spatial design.</li> <li>-Skills in digital and analogue design and manufacturing of prototypes.</li> <li>-Skills in representation supporting design strategies.</li> <li>-Competencies in design of prototypes that allow for a precise on-site study of selective parameters and engages artistically and scientifically with the context.</li> <li>-Competencies in collaborating with manufacturers, experts and local communities towards developing prototypes and investigating performance.</li> </ul> <p>Professional progression</p> <p>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.</p>



<p><b>Attendance requirements:</b></p> <p>Students are required to attend all lectures, workshops, fieldwork activities, reviews and tutorials and be on time.</p>	<p><b>Submission requirements:</b></p> <p>1. Infographic A2 page. 2. Comprehensive design portfolio of all semester. 3. 1:1 working prototype. 4. Verbal presentations for each review. 5. Comprehensive printed material for pin up and board format for each review. 6. Video presentation of project (2 minutes). 7. Written dissertation on Critical Thinking and scientific report. 8. Process log. 9. Preliminary architectural program.</p>
<p><b>Syllabus:</b></p> <p>200 pages minimum (titles given in the semester plan).</p>	<p><b>Method of assessment:</b> Oral examination</p> <p><b>Grading:</b> Danish 7-point grading scale</p> <p><b>Censor:</b> Internal</p>