



## **Module 9 Bachelor Thesis/ Capstone Project**



Module designation	<i>Graduation Project (Thesis)</i>
Semester(s) in which the module is taught	<i>semester</i>
Person responsible for the module	<i>Mingjie Zhu, Quan Gan</i>
Language	<i>Chinese</i>
Relation to curriculum	<p><i>Compulsory</i></p> <p><i>Graduation Project (thesis) is in the completion of the major theoretical and practical teaching courses carried out after the main practical teaching links, training students in the collection of information, investigation and research on the subject on the basis of analyzing and solving the art and science and technology related to the actual industry of the actual theoretical and practical ability to comprehensively test the overall level of the students of the important courses.</i></p>
Teaching methods	<i>Lecture and practice</i>
Workload (incl. contact hours, self-study hours)	<p><i>(Estimated) Total workload: 900 hours</i></p> <p><i>Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 360 hours (lecture and practice are arranged by instructors on the basis of each student's specific project)</i></p> <p><i>Private study including examination preparation, specified in hours: 540 hours</i></p>
Credit points	<i>12.0</i>
Required and recommended prerequisites for joining the module	<i>Students complete literature translation and project tasks(experiment, design or calculation) required by instructor; pass mid-term test; complete thesis.</i>



<p>Module objectives/intended learning outcomes</p>	<p><b>Knowledge:</b></p> <p><i>Consolidate, deepen and systematize the basic theories, professional knowledge and basic skills learned by students;</i></p> <p><b>Skill:</b></p> <p><i>Cultivate the ability of students to comprehensively apply basic theories and professional knowledge to independently analyze and solve practical design problems;</i></p> <p><i>Cultivate the ability of students to carry out investigations and research, literature searching and reading, translation of professional books into foreign languages, and skilful application of computers, as well as acquisition of new knowledge and skills;</i></p> <p><i>Cultivate the ability of students to write professional papers by using design ideas or To develop students' ability to utilize design ideas or perspectives to write professional papers.</i></p> <p><b>Competences:</b></p> <p><i>To strengthen the ability of students to analyze and solve practical problems in this discipline, to cultivate students' correct design ideas, as well as a rigorous creative attitude and a good professional work style; to have the basic ability to independently carry out the practice of exhibition space art design;</i></p>
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Content	<p><b>Bachelor Thesis (16 weeks)</b></p> <p><b>Stage 1: Topic and Bachelor Thesis Assignment Letter*</b></p> <p><i>Instructor of the graduation project must declare the topic one Semester before commencement of the bachelor thesis and fill in The "Topic Review Form of Bachelor Thesis" and submit it to the Faculty for approval. On this basis, the "Thesis Assignment letter" shall be completed and issued to students at the beginning of the graduation project.</i></p> <p><b>Stage 2: Project research and literature review* (2 weeks)</b></p> <p><i>Under guidance of the instructor, students will conduct research the topic they are working on, consult relevant Chinese and Foreign scientific and technical literature, complete a translation of a foreign document (about 5,000 characters), and prepare literature review report accordingly.</i></p> <p><b>Stage 3: Determination of a general plan of the project** (1 week)</b></p> <p><i>According to the requirements of the Assignment Letter, students shall make a general plan under the guidance of instructors. The general plan should contain the following contents: The priorities difficulties and innovations of the project, basic theories and Fundamental skills involved; stages of implementation, tasks technical indicators and preliminary program for each stage; external conditions required for the implementation: including computers, software, hardware, experimental devices instruments, equipment and premises, support from departments and units; technology outputs to be submitted in order to achieve the ultimate goal of the project include: computer program experimental setup with data, engineering drawings, an conclusions of theoretical studies.</i></p> <p><b>Stage 4: Implementation of the general project plan** (10 weeks)</b></p> <p><i>Implementation of the thesis plan marks the most important stage throughout the entire graduation project. It is implemented in stages according to the general plan, which shall be continuously improved according to actual implementation. During this period due to different sources and nature of the topic, the instructor shall give targeted guidance. For the graduation project of the program special attention shall be paid to: theoretical research and design applications; rigorous evidence seeking and bold innovation, and enhancement of design and modelling skills. Students' progress will be reviewed at mid-term.</i></p> <p><b>Stage 5: Writing thesis for the graduation project** (2 weeks)</b></p> <p><i>The graduation thesis reflects outcome of the graduation project and should be completed independently by the student under guidance of instructor.</i></p> <p><i>The format of the thesis must be in strict accordance with the uniform format issued by the Teaching Affairs Office of the University. The bachelor thesis and its attachments shall be submitted in written and electronic version on time.</i></p> <p><b>Stage 6: Review and defense of the bachelor thesis (1 week)</b></p> <p><i>After completing the bachelor thesis, the instructor will review revise and grade it. Once submitted, one or two faculty members will be appointed by the departmental thesis defense team to evaluate and grade the thesis.</i></p>
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Examination forms	<i>Attendance (30%) : Instructor's evaluation</i> <i>Assignments(30%): The reviewing faculty member's evaluation</i> <i>Final assessment (40%): The defense</i>
Study and examination requirements	<i>Complete all courses(I -9 Module)</i>
Reading list	<i>1. Required books</i> <i>2.</i> <i>2.Reference books</i> <i>Professional graduation design (thesis) topic selection requirements and design work quantitative indexes</i>