

<p>Title: Multimedia Programming (Multimedieprogrammering)</p>
<p>Size: 5 ECTS</p>
<p>Prerequisites: 1st semester or equivalent</p>
<p>Objectives: The goal of this course is to strengthen a student's capacity to participate in software development. This puts the student in a position to take advantage of a significant amount of prior work by integrating a variety of software libraries on a variety of platforms.</p> <p>Students who complete the module will gain knowledge, skills and competences as follows:</p> <p>Knowledge:</p> <ul style="list-style-type: none"> • Understand advanced topics of software development relevant to the design and implementation of multimedia software applications, e.g., software design patterns, multi-threaded programming, real-time programming, advanced UML, GPU programming, programming mobile devices and other embedded systems, network programming, graphics, VR and AR programming <p>Skills:</p> <ul style="list-style-type: none"> • ability to apply a variety of intermediate and advanced software technologies, techniques and methods in the construction of effective and efficient multimedia software applications <p>Competencies:</p> <ul style="list-style-type: none"> • ability to analyze multimedia software engineering problems and select, apply and evaluate appropriate technologies in developing successful solutions • ability to synthesize advanced concepts in multimedia programming and software engineering
<p>Type of instruction: Refer to the overview of instruction types listed in the start of chapter 3. The types of instruction for this course are decided in accordance with the current Framework Provisions and directions are decided and given by the Study Board for Media Technology.</p>
<p>Exam format: In accordance with the current Framework Provisions and directions on examination from the Study Board for Media Technology: Individual oral or written examination with internal censor. The assessment is performed with the Pass/Non-Pass grade.</p>
<p>Evaluation criteria: The criteria for the evaluation are specified in the Framework Provisions.</p>