

SYLLABUS

Degree Project in Computer Graphics, Bachelor 15 credits W0031E

Examensarbete i datorgrafik, kandidat

Course syllabus admitted: Spring 2024 Sp 3 - Present

**DECISION DATE
2023-02-15**

Degree Project in Computer Graphics, Bachelor 15 credits W0031E

Examensarbete i datorgrafik, kandidat

First cycle, W0031E

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G#	Medieteknik	Computer Technology

Main field of study

Media Technology

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and at least 135 credits completed courses as required for the degree. A maximum of two 7.5 credits courses (or one 15 credits course) may be unfinished from base and core courses. In addition to the above, the examiner decides whether the proposed degree project is within the subject area and student has the depth of knowledge required.

Selection

The selection is based on 1-165 credits.

Course Aim

The overall goal of the course is for the student to demonstrate skills in applying previously taught theories and methodology to solve problems relevant to professional activities in computer graphics for games and film.

On completing this course the student should be able to:

1. Formulate a relevant problem for investigation within the field of computer graphics production, of either technical, creative or practical nature.
2. Critically research, plan and justify a project for investigating this problem, combining both theoretical research and practical implementation.
3. Manage time and execute the project in an independent, systematic and professional manner, within given structures.
4. Report progress, proactively discuss issues with stakeholders of the project (e.g., a supervisor) and adapt the project when required.
5. Solicit and implement feedback from various perspectives (e.g., the user, audience, client).
6. Achieve a professional standard of work in the practical result.
7. Critically evaluate their work in relation to the problem formulation, industry standards and personal development.
8. Reflect on their work in relation to the ethical and legal aspects of practice within the creative industries.
9. Write and structure a report of their project in a manner appropriate to the field of computer graphics, to a high level of quality.
10. Verbally present, discuss and defend the project method, results and conclusions.
11. Critically evaluate others' projects in a constructive manner.

Contents

The content of the degree project is designed in collaboration with the supervisor.

The degree project always contains a theoretical foundation in the form of a literature survey that highlights the technological and methodological basis of the field, summarized in a scientific manner.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The student independently plans and executes the degree project; the supervisor is available for assistance. A timetable for the entire project is included in the degree project, which is continuously reviewed.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

- Written presentation of individual work
In the report the student shows the ability to:
 - ⊗ Justify the chosen problem of study
 - ⊗ Select and justify the study methods
 - ⊗ Collect information relevant to the problem formulation with an explicit connection to the chosen theory/methods
 - ⊗ Present the information collected in writing in a relevant manner
 - ⊗ Analyse and defend the formulated problem from the chosen theory and methods
 - ⊗ Critically review the relevance of the results obtained from a scientific and engineering point of view
 - ⊗ Express oneself in writing in a correct linguistic and scientific manner.
- Oral presentation of own work
- Public discussion of the work of others
- Attendance at presentations of the degree project work of others.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

The department provides active supervision for a period of one semester from the start of the project.

The degree project is performed individually; only in exceptional cases may at most two students carry out the degree project together.

In cases in which the degree project is carried out by two students, this shall be clearly visible in the scope and depth of the report.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Degree project commenced	U G#	0	Mandatory	S24	
0002	Opposition	U G#	0	Mandatory	S24	
0003	Attendance at two presentations	U G#	0	Mandatory	S24	
0004	Oral presentation	U G#	15	Mandatory	S24	
0005	Thesis paper	U G#	0	Mandatory	S24	
0006	Showreel	U G#	0	Mandatory	S24	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Syllabus established

by Robert Brännström 2023-02-15