

Master Thesis in Computer Science

Title	Master Thesis in Computer Science
Semester	F2025
Master programme in	Computer Science
Type of activity	Master Thesis
Teaching language	English
Study regulation	Read about the Master Programme and find the Study Regulations at ruc.dk

REGISTRATION AND STUDY ADMINISTRATIVE

Registration is happening through [STADS Online Student Service](#) within the announced registration period, as you can see on the [Study administration homepage](#).

Number of participants

ECTS 30

Responsible for the activity

Henrik Bulskov (bulskov@ruc.dk)

Head of study Henrik Bulskov (bulskov@ruc.dk)

Teachers

Study administration IMT Registration & Exams (imt-exams@ruc.dk)

Exam code(s) U60065

ACADEMIC CONTENT

The thesis academically concludes the study program. It should be done in the area of computer science, as specified in section 2 “The programme's objective, employment and competency profile”. The objective of the course of study is to carry out a substantial academic task, which fulfils the study program's scientific standards. Through working on the thesis, the student should develop thorough knowledge of a topic of his or her own choosing. This must be within the parameters of the academic field of study and must be based on the relevant scientific literature of the field.

The thesis must further develop the student's ability to independently structure his or her own work processes, including the ability to plan, organize, and create a substantial academic work as well as the ability to identify the need for the independent acquisition of new knowledge, and the ability to communicate his or her work in a clear and intelligible fashion.

The master thesis is supported by supervision. Students will have a supervisor assigned. The aim of supervision is to support the project work through feedback and constructive critique to help the group or individual progress with their project work. No later than 14 days after having been assigned a supervisor, students must contact supervisor for the purpose of agreeing on a plan for the supervision process.

What can I expect from the supervisor?

- The supervisor's primary task is to provide professional feedback on your thesis work
- You can expect the supervisor to have professional insight into your thesis topic
- Information about the supervision rules and framework of the programme
- Theses in computer science often involve the collection of empirical data or software development. The supervisor can help comment on your design for empirical data collection or software design.

Detailed description of content

The extent of guidance and feedback?

- As a starting point, you can expect up to about 15 hours of supervision for a one-person thesis.
- The supervision can be grouped as one-hour supervision meetings or fewer meetings of longer duration.
- The supervisor has up to one hour of preparation time for supervision meetings.

Course material and Reading list **Pensum**

Overall plan and expected work effort **Tilrettelæggelse og indsats**

Format

Evaluation and feedback The thesis will be survey evaluated by the IMT department.

Programme **ASSESSMENT**

After completing this course, students will be able to:

- demonstrate research-based knowledge of selected subject areas and demonstrate an understanding of and reflection on how one's own thesis research fits into its academic context.
- know and understand the academic genre and the academic target group to which the master's thesis is addressed.
- use and master scientific theories and methods while working with a defined, professional and relevant research question.
- identify scientific research questions.
- analyse, categorize, discuss, argue, reflect and evaluate on a scientific basis.
- critically address and choose scientific sources, literature, theory and methods.
- discuss and participate in academic argumentation.
- write in accordance with academic text norms and for an academic target group.
- independently initiate, manage and complete a long-term academic research and writing process.
- identify and take responsibility for their own professional and written language development and specialization.

Overall learning outcomes

Master thesis written individually or in a group. Permitted group size: 2-4 students.

The student(s) can choose whether the assessment should be based on solely the written product or on both the written product and the oral exam.

The character limits of the master thesis are:

for 1 student: 40,800-192,000 characters, including spaces.

For 2 students: 40,800-192,000 characters, including spaces.

For 3 students: 40,800-204,000 characters, including spaces.

For 4 students: 40,800-204,000 characters, including spaces.

The character limits include the cover, table of contents, summary, bibliography, figures and other illustrations, but exclude any appendices.

The master thesis must include a summary. The summary can either be written in English or Danish.

The summary is included in the overall assessment.

Form of
examination

Before submitting a master thesis written by a group, that have chosen an assessment solely based on the written product, each member of the group must clearly indicate which part(s) of the thesis they are responsible for. All group members are responsible for the introduction, conclusion and summary.

The oral exam is individual for students that have written the thesis alone, or students that have requested an individual exam. All other oral master thesis exams are conducted as group exams.

The oral exam, if relevant, will be based on the master thesis. The students begin the exam with a presentation (10 min per student), followed by a dialogue between the student, examiner and external examiner.

There may be posed questions related to the subject area(s) that the master thesis covers.

Time allowed for exam including time used for assessment for:

1 student: 30 minutes.

2 students: 60 minutes.

3 students: 75 minutes.

4 students: 90 minutes.

There will be an individual assessment of each student's performance.

The assessment is an overall assessment of the master thesis and, where relevant, the oral performance.

Writing and spelling skills in the thesis are part of the assessment and will count for 5 percent.

Permitted support and preparation materials at the oral exam: All.

Assessment: 7-point grading scale.

Moderation: External examiner.

Form of Re-examination

Samme som ordinær eksamen / same form as ordinary exam

Type of examination in special cases

Examination and assessment criteria

Prøveform og bedømmelseskriterier (udmøntet) ...

Exam code(s) Exam code(s) : U60065