

# Master Thesis

## About the course

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|---|--|
| subject                                   | Mathematical Computer Modelling  |
| activitytype                              | thesis   |
| Teaching language                         | English  |
| Registration                              | <p>Tilmelding sker via <a href="#">stads selvbetjening</a> indenfor annonceret tilmeldingsperiode, som du kan se på <a href="#">Studieadministrationens hjemmeside</a></p> <p>Registration is happening through <a href="#">stads selvbetjening</a> within the announced registration period, as you can see on the <a href="#">Studyadministration homepage</a>.</p>  |
| Expected work effort (ECTS-declaration)   | <p><b>Master Thesis 30 ECTS / 810 hours</b></p> <ul style="list-style-type: none"><li>• Master Thesis Seminar: 4 hours</li><li>• Exam and assessment: 1 hour</li><li>• Supervision: 7 / 15 hours (theoretical / experimental)</li><li>• Report writing: 200 hours</li><li>• Literature search: 150 hours</li><li>• Practical project work (laboratory, model design, analysis, field work): 400 hours</li><li>• Exam preparation: 40 hours</li></ul>   |
| Head of studies/ academic coordinator     | Jesper Schmidt Hansen ( <a href="mailto:jschmidt@ruc.dk">jschmidt@ruc.dk</a> )   |
| Administration of exams                   | INM Registration & Exams ( <a href="mailto:inm-exams@ruc.dk">inm-exams@ruc.dk</a> )  |
| Responsible for the activity              | Jesper Schmidt Hansen ( <a href="mailto:jschmidt@ruc.dk">jschmidt@ruc.dk</a> )   |
| ECTS                                      | 30   |
| Learning outcomes and assessment criteria | <ul style="list-style-type: none"><li>• Research-based knowledge and understanding of selected subject areas and understanding of and reflection on how one's own thesis research fits into its academic context</li><li>• Knowledge and understanding of the academic genre and the academic target group to which the master's thesis is addressed</li><li>• Knowledge and understanding of the academic genre and the academic target group to which the master's thesis is addressed</li><li>• Proficiency in identifying scientific research questions</li><li>• Proficiency in analysing, categorising, discussing, arguing, reflecting and evaluating on a scientific basis</li><li>• Proficiency in being critical of and selecting scientific sources, literature, theory and methods</li><li>• Proficiency in discussing and participating in academic argumentation</li><li>• Proficiency in writing in accordance with academic text norms and for an academic target group</li><li>• Competences in independently being capable of initiating, managing and completing a long-term academic research and writing process</li><li>• Competences to identify and take responsibility for their own professional and written language development and specialisation</li></ul>   |
| Teaching and working methods              | <p>The master's thesis is an interdisciplinary thesis based on the academic/professional intersection between the programme's two disciplines. The student can thus choose to prepare an interdisciplinary Master's thesis that covers the entire programme.</p> <p>The exemplary nature of the master's thesis ensures that the students acquire knowledge, skills and competences that they can use in a wider context than the master's thesis itself. The students are free to choose the contents of the master's thesis within the framework of the study regulation and its objectives. The ability to critically assess the quality of their own efforts and their own knowledge base in relation to a given research question is an important objective of the participatory and problem-oriented thesis work. The process is supported by one or more academic supervisors. The supervisor(s) help to ensure that the thesis work meets the requirements of the study regulation.</p> <p>In the thesis report, the student must document knowledge and proficiency in using scientific theories and methods while working with a delimited, academic and relevant research question. The student must document proficiency in analysing, categorising, discussing, arguing, evaluating and reflecting on a scientific basis as well as being able to choose, and be critical of, sources, literature, theory and methods used in the master's thesis. The master's thesis must demonstrate the students' proficiency in communicating about an</p> |

academic study to colleagues and to demonstrate competences in initiating, managing and completing a long-term academic study and writing process.

The Master's thesis work generally takes place in groups of up to 4 students. Students have the right to complete the thesis work individually.

Type of activity

Master Thesis

Form of examination (p1)

The master thesis can be 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: 48,000-192,000 characters, including spaces.

For 2 students: 48,000-192,000 characters, including spaces.

For 3 students: 48,000-204,000 characters, including spaces.

For 4 students: 48,000-204,000 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 with a weighting of 5 percent.

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 10 percent.

Permitted support and preparation materials at the oral exam: Outline on maximum one A4 size-page and presentation material.

Assessment: 7-point grading scale.

Moderation: External examiner.

Form of Re-examination (p1)

Samme som ordinær eksamen

Exam code(s)

Exam code(s) : U41194

## Course days:

**Hold: 1**

**Hand-in of Thesis (starting January 2024)**

|                         |  |
|-------------------------|--|
| time                    | 03-06-2024 10:00 til<br>03-06-2024 10:00 |
| forberedelsesnorm       | ikke valgt                               |
| forberedelsesnorm D-VIP | ikke valgt                               |