

## Specialization Project in Computer Science

Title	Specialization Project in Computer Science
Semester	F2023
Master programme in	Computer Science
Type of activity	Project
Teaching language	English
Study regulation	Read about the Master Programme and find the Study Regulations at <a href="http://ruc.dk">ruc.dk</a>

### REGISTRATION AND STUDY ADMINISTRATIVE

Registration	Sign up for study activities at <a href="#">STADS Online Student Service</a> within the announced registration period, as you can see on the <a href="#">Study administration homepage</a> . Registration for project-exam: Please remember to confirm your registration by signing up for exam as a group when the group formation is final. The registration is through <a href="#">STADS Online Student Service</a> When signing up for study activities, please be aware of potential conflicts between study activities or exam dates. The planning of activities at Roskilde University is based on the recommended study programs which do not overlap. However, if you choose optional courses and/or study plans that goes beyond the recommended study programs, an overlap of lectures or exam dates may occur depending on which courses you choose.
Number of participants	
ECTS	15
Responsible for the activity	Henning Christiansen ( <a href="mailto:henning@ruc.dk">henning@ruc.dk</a> ) Maja Hanne Kirkeby ( <a href="mailto:majaht@ruc.dk">majaht@ruc.dk</a> ) Sune Thomas Bernth Nielsen ( <a href="mailto:sfbn@ruc.dk">sfbn@ruc.dk</a> )
Head of study	Henrik Bulskov ( <a href="mailto:bulskov@ruc.dk">bulskov@ruc.dk</a> )
Teachers	
Study administration	IMT Registration & Exams ( <a href="mailto:imt-exams@ruc.dk">imt-exams@ruc.dk</a> )
Exam code(s)	U60060

### ACADEMIC CONTENT

Overall objective	The project work is problem-oriented and must develop the student's skills in applying theories and methods within a defined academic topic.
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	The project work involves a self-chosen problem in relation to one or more of the selected specializations. The project must give the student the opportunity to describe and reflect over independently performed work, in which complex issues are addressed.
Detailed description of content	The project work is problem-oriented and must develop the student's skills in applying theories and methods within a defined academic topic. The project work involves a self-chosen problem in relation to one or more of the selected specializations. The project must give the student the opportunity to describe and reflect over independently performed work, in which complex issues are addressed.
Course material and Reading list	
Overall plan and expected work effort	Total workload of 412 hours. All activities are on campus unless otherwise agreed with the supervisor.
Format	
Evaluation and feedback	
Programme	
<b>ASSESSMENT</b>	
Overall learning outcomes	<p>After completing this activity, students will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate advanced knowledge and understanding of certain specialized computer science areas.</li> <li>• identify scientific questions in relation to the analysis, design, and construction of software systems.</li> <li>• work critically with the selection and application of methods and techniques.</li> <li>• communicate research-based knowledge and understanding about computer science.</li> <li>• discuss professional computer science-related research questions.</li> <li>• construct complex IT solutions individually and in software development teams.</li> <li>• organize, manage, and implement complex IT projects that require new solutions.</li> <li>• initiate and complete IT solutions that require interdisciplinary collaboration.</li> </ul>
Form of examination	<p>Oral project exam in groups with individual assessment</p> <p>Permitted group size: 2-6 students.</p> <p>The character limits of the project report are:  For 2 students: 4,800-180,000 characters, including spaces.  For 3 students: 4,800-192,000 characters, including spaces.  For 4 students: 4,800-192,000 characters, including spaces.  For 5 students: 4,800-204,000 characters, including spaces.  For 6 students: 204,000-204,000 characters, including spaces.</p>

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

Time allowed for exam including time used for assessment is for:

2 students: 60 minutes.

3 students: 75 minutes.

4 students: 90 minutes.

5 students: 105 minutes.

6 students: 120 minutes.

Writing and spelling skills in the project report are part of the assessment.

Permitted support and preparation materials at the oral exam: All

Assessment: 7-point grading scale.

Moderation: Internal co-assessor.

Form of Re-examination

Samme som ordinær eksamen / same form as ordinary exam

Type of examination in special cases

Examination and assessment criteria

Oral project exam in groups with individual assessment.

Permitted group size: 2-6 students. The character limits of the project report are: For 2 students: 4,800-180,000 characters, including spaces. For 3 students: 4,800-192,000 characters, including spaces. For 4 students: 4,800-192,000 characters, including spaces. For 5 students: 4,800-204,000 characters, including spaces. For 6 students: 4,800-204,000 characters, including spaces. The character limits include the cover, table of contents, summary, bibliography, figures and other illustrations, but exclude any appendices. Time allowed for exam including time used for assessment is for: 2 students: 60 minutes. 3 students: 75 minutes. 4 students: 90 minutes. 5 students: 105 minutes. 6 students: 120 minutes. Writing and spelling skills in the project report are part of the assessment. Permitted support and preparation materials at the oral exam: All

After completing this activity, students will be able to:

- demonstrate advanced knowledge and understanding of certain specialized computer science areas.
- identify scientific questions in relation to the analysis, design, and construction of software systems.
- work critically with the selection and application of methods and techniques.
- communicate research-based knowledge and understanding about computer science.
- discuss professional computer science-related research questions.
- construct complex IT solutions individually and in software development teams.
- organize, manage, and implement complex IT projects that require new solutions.
- initiate and complete IT solutions that require interdisciplinary collaboration.

Exam code(s)

Exam code(s) : U60060

Course days:

Hold: 1

## Specialization Project in Computer Science - Semesterstart (COMP)

time 01-02-2023 09:00 til  
01-02-2023 16:00

location 10.1-025 - teorirum (32)

## Specialization Project in Computer Science - Final project formation (COMP)

time 20-03-2023 12:15 til  
20-03-2023 16:00

location 10.1-025 - teorirum (32)

## Specialization Project in Computer Science - Project hand-in (COMP)

time 07-06-2023 10:00 til  
07-06-2023 10:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

## Specialization Project in Computer Science - Oral examination (COMP)

time 19-06-2023 08:15 til  
30-06-2023 18:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt

# Specialization Project in Computer Science - Oral reexamination (COMP)

time 01-08-2023 08:15 til  
31-08-2023 18:00

forberedelsesnorm ikke valgt

forberedelsesnorm D-VIP ikke valgt