HAW Kiel
Hochschule für Angewandte Wissenschaften Kiel
Kiel University of Applied Sciences

# CSMT - Computer Science Master Thesis

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| General information | |
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| **Module Code** | CSMT |
| **Unique Identifier** | |
| **Module Leader(s)** | Prof. Dr. Prochnow, Steffen (steffen.prochnow@haw-kiel.de) |
| **Lecturer(s)** | Prof. Dr. Acker, Wolfram (wolfram.acker@haw-kiel.de)<br>Prof. Dr. Aßmuth, Andreas (andreas.assmuth@haw-kiel.de)<br>Prof. Dr. Ehlers, Jens (jens.ehlers@haw-kiel.de)<br>Dipl.-Inform. Kopka, Corina (corina.kopka@haw-kiel.de)<br>Prof. Dr. Lüssem, Jens (jens.luessem@haw-kiel.de)<br>Prof. Dr. Manzke, Robert (robert.manzke@haw-kiel.de)<br>Prof. Prieß, Malte (malte.priess@haw-kiel.de)<br>Prof. Dr. Schramm, Hauke (hauke.schramm@haw-kiel.de)<br>Prof. Dr. Woelk, Felix (felix.woelk@haw-kiel.de) |
| **Offered in Semester** | Wintersemester 2026/27 |
| **Module duration** | 1 Semester |
| **Occurrence frequency** | Regular |
| **Module occurrence** | In der Regel jedes Semester |
| **Language** | Englisch |
| **Recommended for international students** | Yes |
| **Can be attended with different study programme** | No |

## Curricular relevance (according to examination regulations)

Study Subject: M.Sc. - MCS - Computer Science (PO 2023, V1)
Module type: Pflichtmodul
Semester: 3

## Qualification outcome

*Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.*

With regard to the analysis and solution of technical and economic problems, the students can independently apply the skills they have acquired during their studies and penetrate and use expanding scientific literature.

The students ....
... can work out open technical questions using scientific methods and basic rules of scientific work and present them in written document
... can independently investigate a topic, collect information, as well as evaluate and interpret it.
... can independently investigate a topic and fill information gaps
... can develop case-related solutions and develop and implement them based on the current state of science.
... apply research methods in practice and prepare the central research findings for publication in a target domain-specific manner.

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| The students can work purposefully and successfully with involved cooperation partners and their supervisors on the basis of empathy, the ability to deal with conflict and consensus, the ability to persevere and social openness. They are able to deal scientifically with the complexity and uncertainty of an open problem or unclear and contradictory situations or open problems. In this context, they are able to make and communicate proposals and/or decisions with incomplete information. |
| The students have sufficient learning ability and willingness to learn to acquire (technical) knowledge and apply skills and behavior in the context of writing the thesis. They are able to develop, implement and implement innovations, even if they require unknown or unfamiliar patterns of action. They are able to organize their own work. They know how to write a scientific work that is correctly structured in terms of both form and method on the topic they have worked on independently. |

| **Content information** | |
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| **Content** | The Master thesis is considered the final work of the program. It serves to apply knowledge what has been learned during the program to real world problem. For this purpose, the Master thesis deals with a scientific questions in the field of the study program or similar subject areas. The student works independently and finally documents his work. |

| **Teaching formats of the courses** | |
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| **Teaching format** | **SWS** |
| Keine Präsenzzeit | 0 |

| **Workload** | |
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| **Number of SWS** | 0 SWS |
| **Credits** | 25,00 Credits |
| **Contact hours** | 0 Hours |
| **Self study** | 750 Hours |

| **Module Examination** | |
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| **Examination prerequisites according to exam regulations** | None |
| **CSMT - Abschlussarbeit (Thesis)** | Method of Examination: Abschlussarbeit (Thesis)<br>Weighting: 100%<br>wird angerechnet gem. § 11 Absatz 2 PVO: No<br>Graded: Yes |

| **Miscellaneous** | |
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| **Miscellaneous** | Master Thesis procedures - see https://collab.fh-kiel.de/course/view.php?id=127 |