

Student Advisory Talk

For students in the Master's programs



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Overview

- Overview of the study programmes
 - M. Sc. Informatik
 - M. Sc. IT Security
 - M. Sc. Autonome Systeme und Robotik
 - M. Sc. Computer Science
 - M. Sc. Artificial Intelligence and Machine Learning

- Examination Related Topics

- General Information

- Information and Advisory

Overview

M. Sc. Informatik



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1. Semester	2. Semester	3. Semester	4. Semester	zu erbringende Leistungen
<u>Wahlbereiche der individuellen Vertiefung</u> Künstliche Intelligenz Cybersicherheit and Privatheit Komplexe vernetzte Systeme <u>Basis-Wahlbereiche</u> Theorie Software & Hardware				<u>6-51 CP</u> 0-51 CP 0-51 CP 0-51 CP <u>12-57 CP</u> min. 6 CP min. 6 CP
<u>Studienbegleitende Leistungen</u> Seminars Labs Practical Labs in Teaching				<u>9-18 CP</u> 3-12 CP 6-15 CP 0- 5 CP
<u>Studium Generale</u> Wahlbereiche: Sprachen Mensch, Gesellschaft, Wirtschaft Umwelt, Technik, Naturwissenschaft				<u>18-24 CP</u> 0-21 CP 3-24 CP 0-21 CP
			Masterarbeit	30 CP

- The 66 – 72 Credits (CP) from computer science consist of
 - 54 - 63 CP through examinations ("**Fachprüfungen**") in lectures and exercises or integrated lectures
 - A minimum of 6 CP in "Software & Hardware" and "Theorie" each
 - A minimum of 6 CP from the other three areas
 - 9 - 18 CP by "**Studienleistungen**"
 - At least one seminar
 - At most one internship in teaching
 - At least one other form (a "**Studienarbeit**" does not count towards the last point)
- And rather towards the end the thesis for 30 CP

Overview

M. Sc. IT Security

1. Semester	2. Semester	3. Semester	4. Semester
<u>Wahlbereiche</u> (59 - 76 CP) Cryptography and Foundations (max. 12 - 46 CP) Systems and Communication Security (max. 12 - 46 CP) Software and Application Security (max. 12 - 46 CP) Complementary Topics (max. 6 -18 CP)			Masterarbeit (30 CP)
<u>Studienbegleitende Leistungen</u> (9 - 15 CP) (min. 1 Seminar, min. 1 Praktikum/Projektpraktikum, max 1 Praktikum in der Lehre)			
Studium Generale (5 - 6 CP)			

Overview

M. Sc. Autonome Systeme und Robotik

1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Wahlpflichtbereiche: Sense Act Plan Basis Technologies				26-68 CP 6-46 CP 10-50 CP 6-46 CP 6-46 CP
Wahlbereiche: Sense Act Plan Basis Technologies				0-40 CP 0-40 CP 0-40 CP 0-40 CP 0-40 CP
Studienbegleitende Leistungen: Seminare Praktika, Projektpraktika, ähnliche Veranstaltungen Praktika in der Lehre				17-21 CP 3-8 CP 6-18 CP 0-5 CP
Studium Generale				5-6 CP
			Master Thesis	30 CP

Overview

M. Sc. Computer Science

1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Basis Wahlbereiche: Theory Software & Hardware				12-18 CP min. 6 CP min. 6 CP
Vertiefungen: Data Science and Engineering Distributed Computing Visual Computing				54-60 CP
Studium Generale Wahlbereich Sprachen Wahlbereich Mensch, Gesellschaft, Wirtschaft Wahlbereich Umwelt, Technik, Naturwissenschaft				18-24 CP 0-24 CP 0-24 CP 0-24 CP
			Master Thesis	30 CP

Overview

M. Sc. Computer Science

Specialization Distributed Computing



1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Wahlbereiche: Computer Networks and Distributed Systems Data-Intensive Systems and heterogeneous Hardware System Modelling and Engineering				42-48 CP 12-30 CP 12-30 CP 6-24 CP
Studienbegleitende Leistungen: Seminare Praktika, Projektpraktika, ähnliche Veranstaltungen Praktika in der Lehre				12-18 CP 3-12 CP 6-15 CP 0-5 CP
			Master Thesis	30 CP

Overview

M. Sc. Computer Science

Specialization Data Science and Engineering



1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Wahlbereiche: Foundations of Data Science Data Systems Engineering Data Science Applications				42-48 CP 12-24 CP 12-24 CP 12-24 CP
Studienbegleitende Leistungen: Seminare Praktika, Projektpraktika, ähnliche Veranstaltungen Praktika in der Lehre				12-18 CP 3-12 CP 6-15 CP 0-5 CP
			Master Thesis	30 CP

Overview

M. Sc. Computer Science

Specialization Visual Computing



1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Wahlbereiche: Computer Graphics Computer Vision and Machine Learning Integrated Methods of Graphics and Vision				42-48 CP 12-30 CP 12-30 CP 6-24 CP
Studienbegleitende Leistungen: Seminare Praktika, Projektpraktika, ähnliche Veranstaltungen Praktika in der Lehre				12-18 CP 3-12 CP 6-15 CP 0-5 CP
			Master Thesis	30 CP

Overview

M. Sc. Artificial Intelligence and Machine Learning



1. Sem.	2. Sem.	3. Sem.	4. Sem.	Bereichs CP
Wahlbereiche Foundations of Artificial Intelligence AI Models and Methods AI Systems AI Domains and Applications				60-72 CP 18-30 CP 18-30 CP 12-24 CP 12-24 CP
Studienbegleitende Leistungen: Seminare Praktika, Projektpraktika, ähnliche Veranstaltungen Praktika in der Lehre				12-24 CP 3-18 CP 6-21 CP 0-5 CP
Studium Generale Wahlbereich Sprachen Wahlbereich Mensch, Gesellschaft, Wirtschaft Wahlbereich Umwelt, Technik, Naturwissenschaft				6-18 CP 0-18 CP 0-18 CP 0-18 CP
			Master Thesis	30 CP

Examination Related Topics

- Three attempts per „Fachprüfung“
- One supplementary oral exam ("**mündliche Ergänzungsprüfung**") (part of the third attempt)
- Registration required for all achievements during the registration period
- Withdrawal possible up to seven days before the exam (exception: inability to take the exam)
- Before all the necessary conditions for the graduation are fulfilled one "open" subject can be removed per area without giving reasons.
- A second time only for "good" reasons
- Registration for modules/courses/examinations is done via TUCaN
- Important information about examinations can be found on the [website of the examination office](#) (**Studienbüro**)

General Information - Multiple Studies

- Registration for a module/course only in one of the study programs
- Achievements can be transferred to the respective other study programs
- A transfer of credits is only possible if the subject fits into one of the areas in the other study programs
- Transfer has to be requested via the examination office

General Information

Imposed Conditions/Remedial Coursework

- As a rule, the conditions must be fulfilled within one year in a maximum of two attempts each
- The imposed examinations should/must be registered through the examination office
- The conditions can be changed under specific circumstances
- The area in TUCaN is visible for all students and you can look up whether you have imposed conditions or not in the admission letter

General Information - Part-Time Study

- Possible reasons are for example
 - employment, self-employment or freelance activity
 - Disability or chronic diseases
 - committee activity
- Further information can be found on the website of the [service center](#)

General Information – Stay Abroad

- Stay abroad very positive for your own curriculum vitae
- In particular important for a scientific career
- Start language courses early
- Thesis or minor subject also possible
- Only one application period (November) per year for all possibilities
- More information on the [website for international affairs](#)

General Information – News

- News can be found
 - Via the website of the student advisory service
 - Via the website of the respective study program
 - Via Discord servers
 - Via TUCaN
 - Via Mail
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- Office hours Monday-Thursday (Phone)
- Consultation Hours via Zoom on Wednesdays
- Information about examination related topics and the Zoom link:
https://www.informatik.tu-darmstadt.de/studium_fb20/im_studium/studienbuero/index.de.jsp

Student Advisory Service

- Consultation hours: Tuesday and Wednesday from 10am until 12pm
- Mail: beratung@informatik.tu-darmstadt.de

Advisory for Exchange Affairs

- Consultation hours : Tuesday and Wednesday from 10am until 12pm
- Mail: ausland@dekanat.informatik.tu-darmstadt.de