

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



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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

Imposed Conditions/Remedial Coursework

- There will be specific consultation hours within the next weeks regarding imposed conditions/remedial coursework

- Most likely
 - April 28th 2pm-4pm
 - April 30th 2pm-4pm
 - May 8th 11am-1pm

- Bring your Bachelor's transcript (complete one)

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 (Presence) on Tuesdays (9am-12pm)
- Consultation Hours (Zoom) on Wednesdays (9am-12pm)
- 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 (10am - 12pm)
- Mail: beratung@informatik.tu-darmstadt.de

Advisory for Exchange Affairs

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