Informatik (B.Sc.) - Effective 01 October 2023

The degree programm consists of 180 Credit Points (CP) in total:

Mandatory Subject Area:	**114 CP**	**Elective Subject Area:**	**10-35 CP**
Studium Generale:	**5-6 CP**	**Elective Subject Area Computer Science:**	**14-48 CP**
Research/Thesis:	**12 CP**		

Language of Tuition:
GERMAN
certificates required

The following **module overview** is an abbreviated, easy-to-read version of the **official course schedule** in the examination regulations, to be found in the Satzungsbeilagen of TU Darmstadt:

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester
Start successfully into your Studies (1 CP)	Algorithms and Data Structures * (10 CP)	Software Engineering (5 CP)	Information Management (5 CP)	Parallel Programming (5 CP)	Bachelor Thesis (12 CP)
Functional and Object-oriented Programming Concepts * (10 CP)	Computer Organisation * (5 CP)	Computer Security (5 CP)	Computer Networks and Distributed Systems (5 CP)	Computer Science and Society (3 CP)	
Digital Design * (5 CP)	Mathematics II (for Computer Science) * (9 CP)	Introduction to Artificial Intelligence (5 CP)		Introduction to Scientific Methods (3 CP)	
Mathematics I (for Computer Science) * (9 CP)	Propositional Logic and Predicate Logic * (5 CP)	Probabilistic Methods in Computer Science (5 CP)		Team Project Software Development (9 CP)	
Automata, Formal Languages and Decidability * (5 CP)		Modelling, Specification and Semantics (5 CP)			
** For admission to the written exam, a study examination is required, usually consisting of points given on homework.*		Compulsory Elective Courses (open catalogue) Selection from currently Operating Systems; Introduction to Compiler Construction; Scientific Computing; Formal Methods in Software Design; Visual Computing (10-35 CP)			
		Computer Science Elective Areas (open catalogue) (5-30 CP) Technical examinations in the five core subjects of the Department of Computer Science			
		Computer Science Elective Areas (open catalogue) (9-18 CP) Study examinations from seminars (min. 1); Practical in Teaching (optional); Practicals, Project Practicals and similar courses (min. 1); Independent Research Assignment			
Studium Generale: (5-6 CP) Select subjects from all catalogues of all departments of TU Darmstadt except the Department of Computer Science					

Study Programmes
www.tu-darmstadt.de/studieren

hobit – Information fair for pupils
www.hobit.de

TUDay – Info day for prospective students
www.tu-day.de

Online Self-Assessment
www.self-assessment.tu-darmstadt.de

Course Schedule
www.tucan.tu-darmstadt.de

Application and Admission for international students
(International Office)
www.tu-darmstadt.de/international

Zentrale Studienberatung und -orientierung ZSB
(Central Student Advisory and Orientation Office)

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Opening hours: www.zsb.tu-darmstadt.de

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Informatik
Bachelor of Science

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Admission

For information on application deadlines please refer to

www.tu-darmstadt.de/international

Brief Description

Informatik addresses the depiction, storage, transfer, and systematic processing of information.
Closely related to mathematics in its formal fundamentals, it is also an engineering discipline that has developed out of a need for fast and reliable calculations of all sorts. The analysis, design, adaption, and application of communications and information systems are the focus of the research-oriented Bachelor of Science programme Computer Science. In addition, the students deal with the design and use of software and hardware systems.

www.informatik.tu-darmstadt.de