

# Module Overview J.B.A. Computer Science (12 Semesters)

Degree Programm Guidelines 01.10.2019, version 01.10.2019

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

<b>Computer Science:</b>	75 CP		<b>Second Component:</b>	75 CP	■
‣ <b>Mandatory Subject Area:</b>	56 CP	■	<b>Optional Area:</b>	15 CP	■
‣ <b>Elective Subject Area:</b>	19 CP	■	<b>Thesis Area:</b>	15 CP	■

**Language of Tuition:**  
GERMAN  
Certificates required



This leads to the following possible part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
Functional and Object-Oriented Programming Concepts (10 CP)	Algorithms and Data Structures (10 CP)	Higher Mathematics I (7 CP)	Computer Organisation (5 CP)	Automata, Formal Languages and Decidability (5 CP)	
<b>Second Component</b> You can choose between Digital Philology, German Studies, History, Musical Culture, Philosophy, Sociology or Political Science.					
<b>Optional Area</b> open catalogues of FB 2, FB1, FB 3 and FB 20, complete catalogue of all modules of TU Darmstadt					
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP
7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Operating Systems (5 CP)	Elective Subject Area* Exams in 2 out of 6 focus areas (mind. 14 CP)			Practical Lab for Bachelors with Project Management (9 CP)	Support Discussion / Preliminary Research (3 CP)
Software Engineering (5 CP)	Elective Subject Area (max. 5 CP)				Bachelor's Thesis (12 CP)
<b>Second Component</b> (75 CP)					
<b>Optional Area</b> (15 CP)					
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP

\* Choose from: IT Security; Networks and Distributed Systems; Robotics, Computational and Computer Engineering; Software Systems and Formal Foundations; Visual & Interactive Computing; Web, Knowledge, and Information Processing