Module Overview B. Ed. Computer Science (12 Semesters) Variant A

Degree Programme Guidelines as per 01.10.2014, Version 01.10.2017

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

Vocational Field of Studies
- Specialised Science: 100 CP 🟦
- Subject-related Didactics: 20 CP 🟦
- Bachelor's Thesis: 10 CP 🟧

Educational and Social Sciences: 30 CP 🟨

Non-vocational Field of Studies
- Specialised Science: 10 CP 🟪
- Subject-related Didactics: 10 CP 🟪

Language of Tuition: GERMAN
Certificates required

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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
Foundations of Computer Science I[5] (10 CP)	Didactics of Computer Science I (5 CP)	Mathematics I for Computer Science (9 CP)	Foundations of Computer Science II[6] (10 CP)	Didactics of Computer Science II (5 CP)	
	Formal Principles of Computer Science I (5 CP)		Formal Principles of Computer Science II (5 CP)	Technical Foundations of Computer Science[2] (12 CP)	
Elective area: Special Areas of Computer Science					
Fundamentals of Vocational Pedagogy (5 CP)	Teaching and Learning in Vocational Education (9 CP)		Practical Studies in School I *or* Vocational Extracurricular Studies I (10 CP)		
Social Sciences					
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
Foundations of Computer Science III[3] (10 CP)	Didactics of Computer Science III (5 CP)		Practical Lab for Bachelors (6 CP)	Bachelor's Thesis[1] (10 CP)	
	Proseminar in Didactics (5 CP)		Project Management (3 CP)		
Elective area: Special Areas of Computer Science (30 CP)					
	Non-vocational Field of Studies: Specialised Science[4] (10 CP)				
	Non-vocational Field of Studies: Subject-related Didactics[4] (10 CP)				
Social Sciences (6 CP)					
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP

[1] The Bachelor's Thesis is part of the specialised science of the vocational field of studies.

[2] „Technical Foundations of Computer Science" consists of „Digital Technology" and „Computer Organization

[3] „ Foundations of Computer Science III „ consists of „ Operation Systems „ and „ Systems and Parallel Programming".

[4] A general education subject can be chosen from the following: German; ethics; history; mathematics; physics; politics and economics; Protestant religion; Catholic religion or sports science.

[5] „Foundations of Computer Science I" renamed to „Functional and Object-Oriented Programming Concepts".

[6] „Fundamentals of Computer Science II" renamed to „Algorithms and Data Structures".