

# Module Overview B. Ed. Computer Science (9 Semesters)

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*

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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester	9. Semester
Foundations of Computer Science I (10 CP) <sup>5</sup>	Foundations of Computer Science II <sup>6</sup> (10 CP)	Technical Foundations of Computer Science <sup>2</sup> (12 CP)	Formal Principles of Computer Science I (5 CP)	Foundations of Computer Science III <sup>3</sup> (10 CP)	Proseminar in Didactics (5 CP)		Practical Lab for Bachelors (6 CP)	Bachelor's Thesis <sup>1</sup> (10 CP)
Mathematics I for Computer Science (9 CP)	Didactics of Computer Science I (5 CP)	Didactics of Computer Science II (5 CP)	Formal Principles of Computer Science II (5 CP)		Didactics of Computer Science III (5 CP)		Project Management (3 CP)	
<b>Elective area: Special Areas of Computer Science (30 CP)</b>								
Vocational Pedagogy (5 CP)	Vocational Education (9 CP)				Non-vocational Field of Studies: Specialised Science <sup>4</sup> (10 CP)			
		Practical Studies in School I or Vocational Extracurricular Studies I (10 CP)			Non-vocational Field of Studies: Subject-related Didactics <sup>4</sup> (10 CP)			
<b>Social Sciences (6 CP)</b>								
Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP

<sup>1</sup> The Bachelor's Thesis is part of the specialised science of the vocational field of studies.

<sup>2</sup> „Technical Foundations of Computer Science“ consists of „Digital Technology“ and „Computer Organization“

<sup>3</sup> „Foundations of Computer Science III“, consists of „Operation Systems“, and „Systems and Parallel Programming“.

<sup>4</sup> 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.

<sup>5</sup> „Foundations of Computer Science I“ renamed to „Functional and Object-Oriented Programming Concepts“.

<sup>6</sup> „Fundamentals of Computer Science II“ renamed to „Algorithms and Data Structures“.