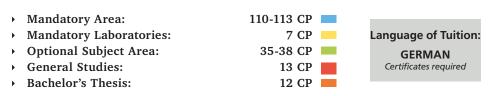# Module Overview B. Sc. Information Systems Technology (12 Semesters)

Degree Programme Guidelines as per 01.10.2016, Version 01.10.2018

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

‣ **Mandatory Area:** 110-113 CP ▮
‣ **Mandatory Laboratories:** 7 CP ▮
‣ **Optional Subject Area:** 35-38 CP ▮
‣ **General Studies:** 13 CP ▮
‣ **Bachelor's Thesis:** 12 CP ▮

Language of Tuition:
GERMAN
Certificates required

TECHNISCHE
UNIVERSITÄT
DARMSTADT

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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
Mathematics I* (8 CP)	Mathematics II* (8 CP)	Functional and Object-oriented Programming Concepts (10 CP)	Algorithms and Data Structures (10 CP)	Mathematics III (8 CP)	Mathematics IV (8 CP)
Electrical Engineering and Information Technology I (7 CP)	Electrical Engineering and Information Technology II (7 CP)			Deterministic Signals and Systems (7 CP)	Fundamentals of Communication (6 CP)
Electrical Engineering and Information Technology Lab Ia and Ib (4 CP)		Digital Design (5 CP) *or* Logic Design (6 CP)	Computer Organisation (5 CP) *or* Computer Systems I (6 CP)		
Mentoring (1 CP)					
17 CP	18 CP	15 CP	15 CP	15 CP	14 CP

7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Introductionary Project (Projectweek) (2 CP)	Optional Subject Specialisation**/*** (15-38 CP)				Bachelor's Thesis (12 CP)
	Optional Subject Application**/*** (0-20 CP)				
Electronics (4 CP)	Operating Systems (5 CP)	Software Engineering (5 CP) *or* Software Engineering-Introduction (6 CP)	General Studies** (3 CP)		
Electronics Lab (3 CP)	General Studies** (6 CP)				
Systems and Parallel Programming (5 CP)					General Studies** (3 CP)
14 CP	16 CP	13 CP	14 CP	14 CP	15 CP

* The study achievements are divided into several individual performances distributed over the semester.

** The selected modules of the specialisation or application catalogues must contain at least 2 courses of the type internship, project seminar or (pro) seminar, which may not all be of the same type.

*** Modules that are not already listed in an „open" catalogue will be supplemented upon application to the Examination Board and in consultation with the Student Advisory Service (see also the overview table with additions: http://www.ist.tu-darmstadt.de/ under Service/Downloads)