

## Module Overview B. Sc. Physics - 9 Semesters

Degree Programme Guidelines as per 01.10.2022, Version 01.10.2022 (SB2022II)

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

Experimental Physics:	39 CP	<span style="color: #0070C0;">■</span>	Mathematics:	32 CP	<span style="color: #00B090;">■</span>
Theoretical Physics:	43 CP	<span style="color: #AEC6E0;">■</span>	Interdisciplinary Elective Area:	16 CP	<span style="color: #C06090;">■</span>
Laboratories:	35 CP	<span style="color: #FFC000;">■</span>	Bachelor's Thesis:	15 CP	<span style="color: #FF8C00;">■</span>

**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
Physics I (7 CP)	Physics II (7 CP)	Physics III (7 CP)	Physics IV (5 CP)	Physics V (5 CP)		Physics VI (5 CP)		Bachelor's Thesis (15 CP)
Linear Algebra I (for physics and teaching (mathematics)) (4 CP)	Linear Algebra II (for physics and teaching (mathematics)) (4 CP)	Analysis I (8 CP)	General and Overarching Concepts of Experimental Physics (3 CP)	Ordinary Differential Equations (4 CP)	Computational Physics (6 CP)	Laboratory Course for Advanced Students I + II (16 CP)*		
Physical Basis Laboratory I (4 CP)	Physical Basis Laboratory II (4 CP)	Physical Basis Laboratory III and Compact Course (4+1 CP)	Analysis II (8 CP)	Complex Analysis (4 CP)				
Calculation Methods for Physicists (5 CP)			Classical Mechanics (8 CP)	Quantum Mechanics (8 CP)	Classical Particles and Fields (8 CP)	Thermodynamics and Statistical Physics (8 CP)	Overarching Concepts (6 CP)	
	Elective subjects interdisciplinary (11-16)** and Elective Subject Area Physics (0-5)							
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

\* Precondition for participation: Completed module 05-15-2213 Physical Basis Laboratory .

\*\* These courses may be chosen from the general TU Darmstadt course catalogue.