

BSc Physics and Data Science (180 CP)

	CHOICE / CORE / CAREER3 x 45 = 135 CP						CONSTRUCTOR Track45 CP					
3 rd Year CAREER	Bachelor Thesis / Seminar m, 15 CP				Summer Internship / Start-Up (after 2 nd year) m, 15 CP		New Skills / Methods Modules me, 5 CP	New Skills Modules				
	Specialization Physics I me, 5 CP		Specialization Physics II me, 5 CP						Specialization Data Science me, 5 CP			
2 nd Year CORE	Quantum Mechanics m, 5 CP		Computa- tional Modeling m, 5 CP	Statistical Physics m, 5 CP		Advanced Lab II m, 5 CP		Machine Learning m, 5 CP		Statistics and Data Analytics m, 5 CP		me, 15 CP
	Analytical Mechanics m, 5 CP			Electrodynamics & Relativity m, 5 CP		Advanced Lab I m, 5 CP		Scientific Data Analysis m, 5 CP		Probability and Random Processes m, 5 CP		
1 st Year CHOICE	Modern Physics m, 7.5 CP			Mathematical Modeling m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Adv. Calculus II m, 5 CP		German / Humanities me, 2.5 CP		
	Classical Physics m, 7.5 CP			Scientific Programming with Python m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Adv. Calculus I m, 5 CP		German / Humanities me, 2.5 CP		
Minor Option in Physics (30 CP)				CP: Credit Points m: mandatory me: mandatory elective Study abroad Option in 5 th Semester (22.5 CP)								