

Technische Universität

Braunschweig

Study Plan (Exam. Regul. 2024)



Name: _____

Matricle Number: ______ Year of Enrollment: 20_____

New exam regulation valid from winter term 2025/2026!

	1. Semster (Winterterm)					
	СР					
MAF	5	Ordinary Differential Equations (ODE)				
	5	Partial Differential Equations (PDE)				
	5	Algorithms & Programming				
ENG	10	Solid and Structual Mechanics	Fluid Mechanics	Information Technology	Track:	
		Linear Solid Mechanics	Fluid Mechanics	Nonlinear Photonics	Date:	
		Introduction to FEM	Introduction to FVM	Information Theory	Signature:	
CEQ	5	Career Entry Qualificati	ions	·		
	30					

	2. Semester (Summerterm)					
	СР					
MAF	5	Numerical methods für ordinary and partial different equations				
ENG	5	Solid and Structual Mechanics	Fluid Mechanics	Information Technology		
		Nonlinear Solid Mechanics	Turbulent Flows	Pattern Recognition		
CEM	10	Electives – Choose 1-2			Date:	Signature:
		Data-driven material modeling				
		Methods of Uncertainity Analysis and Qualification I				
		Multi-Scale Methods				
		Scientific Software Engineering (Lab)				
		Network Security				
		Quantum Communication Networks				
		Dynamik Optimization (10 CP)				
		Numerische Lineare Algebra (10 CP, German)				
		Multidisciplinary Design Optimization (MDO)				
ECL	5	Elective Class(es)				
		1.			Date:	
		Signature:				
CEQ	5	Career Entry Qualifications				
	30					

		3. Semester (Winterterm)			
	СР				
CEM	5	Electives - Choose 1-2	Date: Signature:		
		Nonlinear FEM			
		Advanced FEM (for structures)			
		Introduction to Lattice-Boltzmann-Methods			
		Simulationsmethoden der Partikeltechnik (GER)			
		Deterministic and Stochastic Computations ("Uncertainty" II)	nistic and Stochastic Computations ("Uncertainty" II)		
		Spoken Language Processing ("Pattern Recognition II")	anguage Processing ("Pattern Recognition II")		
		Computer Network Engineering			
		Algorithms for Solving the Euler and Navier Stokes Equations			
		Statistical methods: Optimality and high dimensionality (10 CP)			
ECL	10	Elective Class(es)			
		1.	Date:		
			Signatur	Signature:	
		2.	Date:		
			Signatur	e:	
PRO	15	Research Project			
	30				

4. Semester (Summerterm)				
	СР			
MTH	30	Master Thesis		

	Additional Courses
1.	
2.	
3.	
4.	
5.	

Notes:

MAF courses are compulsory and do not aquire signatures

The courses in the chosen engineering track are compulsory and not interchangeable!