Curriculum B-AM&AP for cohort 2025

First year

Course code	Name	EC	Coord.
	Q1.sem 1		
202300095	Lab Course	4	AP
202300096	Programming and Dataprocessing	3	AP
	Q1.1A		
202200141	Linear Structures 1	5	AM
202200143	Analysis 1	5	AM
202100094	Dynamics and Relativity	4.5	AP
202000675	Project Dynamics and Relativity	2.5	AP
	Q1.1B		
202200236	Linear Structures 2	4	AM
202400660	Analysis 2	6	AM
202000677	Thermodynamics	4	AP
202000680	Project Thermodynamics	4	AP
	Q1.2A		
202001343	Signals and Transforms	5	AM
202001344	Probability Theory for AM	5	AM
202300196	Modelling 2 & Project AP	5	AM
202000683	Instrumentation	4	AP
	Q1.2B		
202200241	Numerical Mathematics	5	AM
202200242	Differential Equations	5	AM
202000687	Quantum Matter	5	AP
202000688	Geometrical Optics	2.5	AP
202000097	Project Engineering Systems 2	1.5	AP

Second year

Course code	Name	EC	Division
	Q2.1A		
202300016	Mathematical Statistics 1	7	AM
202300017	Analysis 3	5	AM
202400597	Models	4.5	AP
202000694	Classical Mechanics	4	AP
	Q2.1B		
202300027	Linear Optimisation	5	AM
202200094	Quantum Mechanics 1	5	AP
202001485	Optics Theory	4.5	AP
202300063	Optics Practical	2.5	AP
202200095	Hilbert space	3	AP
	Q2.2A		
202500369	Algebra	3	AM
202000701	Introduction Solid State Physics	7	AP
202000702	Statistical Physics	6	AP
202300116	Introduction to Electrodynamics	3	AP
	Q2.2B		
202200336	Markov Chains	4	AM
202200337	Stochastic Models	4	AM
202300023	Fluid Physics Theory	4.5	AP
202300024	Fluid Physics Practicals	2.5	AP
202000706	Electrodynamics	6	AP

Third year

Course code	Name	EC	Division
	Q3.1A		
	Minor[a]	15	
	Elective	5	
	Q3.1B		
	Minor[a]	15	
	Elective	5	
	Q3.2A		
202499632	Introduction to PDE	4	AM
	Master Orientation Elective (1 of 3):	4	AM
202400634	Mathematics behind Data-Driven Methods		
202400635	Topics in Sequential Decision-Making		
202400636	Model Reduction		
202300067	Preparation Bachelor's Assignment	3	AP
202300068	Statistics in Scientific Research	2	AP
	Master orientation elective	5	AP
	Q3.2B		
201500405	Complex Function Theory	3	AM
202400348	Reflection 3	2	AM
202001433	Bachelor's assignment[b]	15	AM&AP

[a]Before starting (part of) a minor, the student must have obtained at least 100 EC from the first two years of the Bachelor's programme.

[b]The student can only start with the Bachelor's Assignment if they fully passed the first year programme and if they obtained a minimum of 60 EC from the second and third year programme excluding the minor.