

Curriculum B-AM&AP for cohort 2021 and earlier

First year

Name	EC	Coord.
<i>Q1.1A</i>		
Linear Structures I	6	AM
Calculus I + Prooflab I	4	AM
Workshop Intercultural Awareness	-	AM
Dynamics & Relativity	4.5	AP
Experimentation 1	2	AP
Programming & Data processing 1	2	AP
Project Dynamics & Relativity	2.5	AP
<i>Q1.1B</i>		
Calculus II	4	AM
Linear Structures II	3	AM
Analysis I	3	AM
Linear Optimization	3	AM
Project Prooflab II	2	AM
Thermodynamics	4	AP
Programming & Data processing 2	1	AP
<i>Q1.2A</i>		
Vector Calculus	2	AM
Presenting a Mathematical Subject	2	AM
Prooflab III	1	AM
Electromagnetism	5	AP
Instrumentation	4	AP
Project Electromagnetism and Measurements	3	AP
Analytical Programming	1	AP
<i>Q1.2B</i>		
Probability Theory	5	AM
Signals and Transforms	5	AM
Project Signals and Uncertainty	5	AM
Quantum Matter	5	AP

Entire academic year: 79 EC

Second year

Name	EC	Division
<i>Q2.1A</i>		
Mathematical Statistics	6	AM
Analysis II	5	AM
Prooflab Revisited	2	AM
Models	4.5	AP
Project Signals, Models and Systems	3	AP
<i>Q2.1B</i>		
Ordinary Differential Equations	4	AM
Systems Theory	4	AM
Numerical Mathematics	4	AM
Project Dynamical Systems	3	AM
Quantum Mechanics	6	AP
<i>Q2.2A</i>		
Discrete Mathematics & Algebra	6	AM
Solid State Physics	7	AP
Statistical Physics	6	AP
PDE	2	AP
<i>Q2.2B</i>		
Markov Chains	4	AM
Physics of Fluids	7	AP
Electrodynamics	6	AP
Numerical methods for PDE	2	AP

Entire academic year: 81.5 EC

Third year

Name	EC	Division
Q3.1A <i>Minor</i>	15	
Q3.1B <i>Electives selection</i>	10	
Optics	7	AP
Q3.2A Reflection on Mathematical Research I	5	AM
<i>10 EC of Electives:</i>		
Graph Theory	5	AM
Simultaneous Statistical Inference	5	AM
Mathematical Optimization	5	AM
Computational Physics	2.5/5	AP
Physical Materials Science	5	AP
Machine Learning	3/5	AP
Remote Control of Experiments	2.5/5	AP
Soft Matter Physics	5	AP
Technical Optics	5	AP
Q3.2B Complex Function Theory	3	AM
Reflection on Mathematical Research II	2	AM
Bachelor's assignment	15	AM&AP

Entire academic year: 67 EC