

AT programme 2024-2025

First year (cohort 2024)	M1: Raju 202000610 Mechanics	M2: Vreman-de Olde 202000614 Thermodynamics	M3: Koster 202000618 Fundamentals of Materials	M4: Wormeester 202000622 Dynamics
	Calculus 1 * (202001212) (4.0 EC)	Calculus 2 * (202200179) (4.0 EC)	Vector Calculus * (202200189) (2.0 EC)	Linear Algebra * (202001208) (3.0 EC)
	Mechanics * (202000611) (4.5 EC)	Classical Thermodynamics * (202200185) (4.0 EC)	Structure and Properties of Materials * (202400642) (3.0 EC)	Dynamical Systems * (202000623) (4.0 EC)
	Project Mechanics (202000613) (3.0 EC)	Project Thermodynamics (202000617) (4.0 EC)	Quantum Matter * (202000620) (3.0 EC)	Project Accelerometer * (202000625) (4.0 EC)
	Laboratory Practice (202300117) (3.5 EC)		Organic Chemistry * (202000621) (3.0 EC)	Basic Electronics and Instrumentation * (202000624) (4.0 EC)
	Programming Skills & Error Analysis (202300118) (3 EC)		Project Materials (202400643) (4.0 EC)	
Second year (cohort 2023)	M5: Vreman-de Olde 202400615 Signals, Models & Systems	M6 Elective module**	M7: van den Beld 202000651 Fields & Waves	M8: Kump 202000655 Business & Society
	Signals * (202000627) (4.0 EC)	Materials Science and Engineering	Finite Element Methods * (202000652) (3.0 EC)	Entrepreneurship & Innovation Management * (202000656) (6.0 EC)
	Models * (202000628) (4.0 EC)	Transport Phenomena	Electro- and Magnetostatics * (202000653) (9.0 EC)	Data, Statistics & Probability for Engineers * (202000657) (5.0 EC)
	Elective * (4.0 EC): - Engineering Solid Mechanics (202000695) - Computational Thinking (202400546) - Classical Mechanics (202000694) - Electronics (202000644)	Systems and Control	Project Antenna * (202000654) (3.0 EC)	Socio-technical Futures * (202000658) (4.0 EC)
Project SMS * (202000693) (3.0 EC)	Software Systems			
Third year (cohort 2022)	M9 Master Preparation	M10 Master Preparation	M11 Master Preparation	M12: Hemmes BSc Assignment (202000670)
	Choice: Check master admission requirements on AT webpage Offered by the AT Programme: Condensed Matter Physics for AT (202000659)	Choice: Check master admission requirements on AT webpage	Choice: Check master admission requirements on AT webpage	Scientific/Design
			Preparation Bachelor Assignment (202000668) (4.0 EC)	Communication
				Work process

* Open to students from other educational programmes.

** Detailed information can be found on the next page.

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	Module 6a: Huijben	Module 6b: Brillman	Module 6c: Krijnen	Module 6d: van Dijk
	202000633	202000736	202001139	202400355
	AT: Materials Science and Engineering	CSE: Transport Phenomena	EE: Systems and Control	TCS: Software Systems
Module 6 choices	Advanced Materials * (202000634) (3.5 EC)	Physical Transport Phenomena (202000737) (7.5 EC)	Engineering System Dynamics (202001141) (5.0 EC)	Software Systems Core (202400356 / 202400357) (12 EC)
	Fundamentals of Solids * (202000635) (3.5 EC)		Control Engineering (202001140) (5.0 EC)	
	Chemistry and Technology of Materials * (202000636) (4.0 EC)	Numerical Methods (202000739) (3.5 EC)	Project Systems and Control (202001142) (5.0 EC)	
	Elective * (4.0 EC): - Semiconductor Devices (202000637) - Physical Chemistry of Interfaces (202000638)	Project Transport Phenomena (202000738) (4.0 EC)		

This module is coordinated by the Chemical Science and Engineering programme.

This module is coordinated by the Electrical Engineering programme.

This module is coordinated by the Technical Computer Science programme.

Colour



Category (year 1 only) / subject

- A / Mathematics
- B / Core courses
- C / Lab courses + Instrumentation
- D / Projects
- E / Organic Chemistry + Quantum Mechanics