

Nature-Inspired Materials Study Programme



Rhine-Waal University of Applied Sciences | Faculty Technology & Bionics 2025

BASIC SEMESTERS

Mathematics 1

Chemistry of Materials Physics and Error Statistics Fundamentals of Project Management Information Competence and Scientific Working Fundamentals of Business and Management

Mathematics 2

Organic Chemistry

Programming for Biomaterials

Metallic Materials and Testing

Materials Analysis

Non-Metallic Materials

Chemistry of Biopolymers

Biochemistry

Physical Chemistry Personal and Social Competences

SPECIALISATION SEMESTERS | BIOCHEMISTRY

4

5

FEM and Materials Simulation

Corrosion and Surface Chemistry

Materials Technology Cell Biology and Microbiology Biotechnology and Biodegradable Materials

Sustainability, Quality and Business Process Management

Biocompatible Materials Recycling and Ecology of Materials

Supramolecular Chemistry and Materials Smart Functional Materials

FINAL SEMESTERS



Group Project

Elective 1

Elective 2

Internship / Semester abroad





Internship / Semester abroad

Thesis

Colloquium

Degree:

B.Sc. Nature-Inspired Materials



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hine-Waal University of Applied Sciences Faculty Technology & Bionics 2025					TECHNOLOG
		BASIC SEM	ESTERS		
Mathematics 1		ysics and ror Statistics	Fundamentals of Project Management	Information Competence and Scientific Working	Fundamentals Business and Management
Mathematics 2	Organic Chemistry	Programming Biomaterials		tallic Materials I Testing	Materials Analysis
Non-Metallic Materials	Chemistry of Biopolymers	Biochemistry		vsical emistry	Personal and Social Competences
	S P E C I A L I S A T I O N	SEMESTERS	MATERIA	L TECHNOLOG	Υ
FEM and Materials Simulation	Corrosion and Surface Chemistry	Materials Technology		l Biology and robiology	Manufacturing Technology and Facto Equipment
Sustainability, Quality and Business Process Management	Biocompatible Materials	Recycling and Ecology of Ma		erial Testing and ure Analysis	Inorganic and Composite Materia
		FINAL SEM	ESTERS		
Group Project	Elective 1	Elective 2	Interns	hip / Semester	abroad }
>>> Internsh	ip / Semester abro	oad The	esis		Colloquium

Degree:

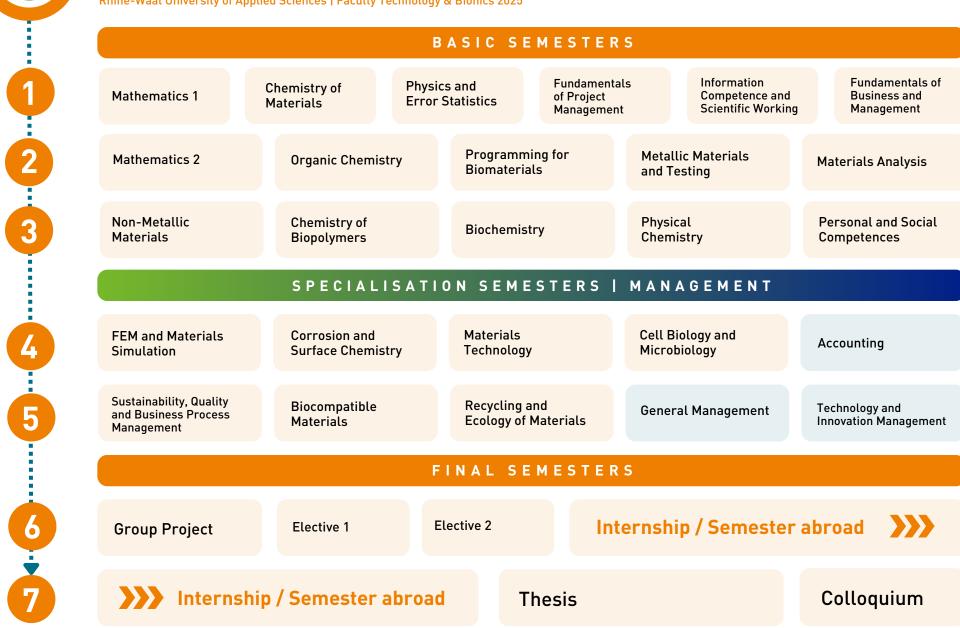
B.Sc. Nature-Inspired Materials



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