

Sustainable Materials Engineering (Bachelor)

Graduation: Bachelor of Science

Module plan | Progress of Program

Semester 7	Bachelor's Thesis 	
------------	---	--

Sustainable Materials Engineering (Bachelor)

Graduation: Bachelor of Science

Module plan | Progress of Program

Semester 7	Bachelor's Thesis ECTS 10		Mandatory elective profiles 3 ECTS 5	Mandatory elective profiles 4 ECTS 5	Micro- and Nanotechnology ECTS 5	Project Management and Basics of Business ECTS 5
Semester 6	Project ECTS 10		Mandatory elective profiles 1 ECTS 5	Mandatory elective profiles 2 ECTS 5	Mathematical Methods of Measurement Technology ECTS 5	Higher Physics and Electrical Engineering ECTS 5
Semester 5	Internship Semester and Exchange Semester ECTS 30					
Semester 4	Mathematics III ECTS 5	Macromolecular Chemistry and Plastics Technology ECTS 5	Biomechanics ECTS 5	Biomaterials and Biomineralization ECTS 5	Material Utilization and Recycling ECTS 5	Self-management and Communication ECTS 5
Semester 3	Ecology ECTS 5	Organic Chemistry ECTS 5	Fundamentals of Biomechanics ECTS 5	Functional Materials and Sustainability Concepts ECTS 5	Bionics ECTS 5	German III / Scientific Work ECTS 5
Semester 2	Mathematics II ECTS 5	Materials Characterization ECTS 5	Chemistry of Renewable Resources ECTS 5	Technical Basics ECTS 5	Biology and Basic Bionics ECTS 5	German II / English for Sustainable Science and Innovation ECTS 5
Semester 1	Mathematics I ECTS 5	General and Inorganic Chemistry ECTS 5	Fundamentals of Physics and Instrumental Analysis ECTS 5	Materials Science ECTS 5	Sustainability and Circular value creation ECTS 5	German I / English for Engineers ECTS 5

Sustainable Materials Engineering (Bachelor)

Graduation: Bachelor of Science

Module plan | Progress of Program

Semester 7	Bachelor's Thesis ECTS 10		Mandatory elective profiles 1–4 · Sustainable Materials Development (I to IV) · Quality Management in Sustainable Materials Development (I to IV) · Production Technology and Production Management I (I to IV) ECTS 20		Micro- and Nanotechnology ECTS 5	Project Management and Basics of Business ECTS 5
Semester 6	Project ECTS 10				Mathematical Methods of Measurement Technology ECTS 5	Higher Physics and Electrical Engineering ECTS 5
Semester 5	Internship Semester and Exchange Semester ECTS 30					
Semester 4	Mathematics III ECTS 5	Macromolecular Chemistry and Plastics Technology ECTS 5	Biomechanics ECTS 5	Biomaterials and Biomineralization ECTS 5	Material Utilization and Recycling ECTS 5	Self-management and Communication ECTS 5
Semester 3	Ecology ECTS 5	Organic Chemistry ECTS 5	Fundamentals of Biomechanics ECTS 5	Functional Materials and Sustainability Concepts ECTS 5	Bionics ECTS 5	German III / Scientific Work ECTS 5
Semester 2	Mathematics II ECTS 5	Materials Characterization ECTS 5	Chemistry of Renewable Resources ECTS 5	Technical Basics ECTS 5	Biology and Basic Bionics ECTS 5	German II / English for Sustainable Science and Innovation ECTS 5
Semester 1	Mathematics I ECTS 5	General and Inorganic Chemistry ECTS 5	Fundamentals of Physics and Instrumental Analysis ECTS 5	Materials Science ECTS 5	Sustainability and Circular value creation ECTS 5	German I / English for Engineers ECTS 5