

Curriculum

Green Transition Engineering

Bachelor | Full-time | English

Semester 1	ECTS
Orientation and Outdoor Project	5
Tree of Life: Biology and Biodiversity	5
Applied Mathematics	5
Introduction to Programming and Computer Sciences	5
Environmental Data Sources and Data Integration	5
Concepts and Principles of Sustainability	2,5
Climate Zones, Climate Types and Climate Change	2,5
Total	30

Semester 2	ECTS
Fundamentals of Natural Sciences	5
Introduction to Statistics and Empirical Social Research	5
Databases and Data Structures	5
Introduction to Digital Modelling of the Environment	5
Environmental Ethics	2,5
Science Communication	2,5
Landscapes and Ecosystems of the Earth	2,5
Ecosystem Energy and Material Flows and Cycles	2,5
Total	30

Semester 3	ECTS
Data Acquisition Tools and Methods	5
Data Intelligence	5
Energy Transition	5
International Policies, Environmental Law and EU Green Deal	5
Ecosystem Services and Life Cycle Assessment	5
Project Management	2,5
Integrative Alpine Excursion	2,5
Total	30

Semester 4	ECTS
Introduction to Regional Planning and Land Use Planning	5
Digital Environmental Data Analysis and Visualization	5
Sustainable and Smart Mobility	5
Markets, Financial Systems and Principles of Circular Economy	5
Participation Processes, Conflict Management, Communication and Public Relations	2,5
Transition Concepts, Climate Mitigation and Adaptation Approaches	2,5
Interdisciplinary Project 1	5
Total	30

Semester 5	ECTS
Smart City	5
Interdisciplinary Project 2	5
Electives (4 to choose from):	
Conservation Measures and Planning Tools for Nature Conservation	5
Citizen Science	5
Introduction to Microeconomics and Sustainable Business	5
Eco-Design and Sustainable Manufacturing	5
Decision Support Systems	5
Risk Management of Natural Hazards	5
Sensor Networks for Environmental Monitoring and Impact Verification	5
Green IT and Digitalization	5
Digital Accessibility and User Experience	5
Total	30

Semester 6	ECTS
Professional Internship	18
Internship accompanying Seminar	1
Trends in Green Transition	1
Bachelor Thesis Seminar	8
Bachelor Examination	2
Total	30

Total Sum	180
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