## Master-Studium ENERGY AND TRANSPORT MANAGEMENT

# ECOLOGY ENERGY ENGINEERING > MOBILITY > INTERNATIONALISATION PROJECT DEVELOPMENT > TRANSPORT > MANAGEMENT

his internationally oriented and globally relevant master degree programme focuses on two essential topics of the 21st century: the provision and distribution of energy as well as the conception and planning of traffic systems. At the same time the programme addresses associated environmental impacts and infrastructural key issues. The curriculum provides a wide range of electives, which can be flexibly combined in accordance with the students' chosen specialisations and enable each student to immerse in their preferred field of expertise. In the field of energy, for example. elective specialisation courses include: renewable energy, photovoltaics & wind power, hydropower or petroleum engineering. The options available in the field of transport range from modern mobility systems and distribution logistics to railway systems, traffic simulations and urban planning. As management skills are indispensable to future energy and transport manager, the curriculum also includes courses on international financing. strategic management and international project management. Interdisciplinary projects focusing on, for example, smart city development are a key feature of the programme.

Due to its international focus, students from countries around the world, who meet the entry requirements for the English language admissions process, are encouraged to apply. Our programme is work-friendly – this means courses are held mostly from Monday to Wednesday.

# FACTS Master of Science in Engineering (MSc) work-friendly 4 4 Semester / 120 ECTS Image: Semester / 120 ECTS

 Head of Degree Programme: DI Dr. Uwe Trattnig

### Did you know ...

... that we offer graduates with a bachelor degree in environmental systems science the chance to start the master programme without losing any time?



### **CAREER & OPPORTUNITIES**

The future belongs to experts in the fields of energy, mobility or environmental management. Graduates of this master degree programme are highly skilled individuals with a strong focus on project management, who are able to work in a variety of industries and fields of expertise. Classical jobs include energy trading, mobility project management, traffic planning or energy efficiency management. "I currently work as an energy efficiency manager for voestalpine Stahl Donawitz GmbH. The master's degree programme provided me with excellent training in all the core technical and business skills I need in my job."

**DI (FH) Andreas Reinhart Kiedl,** MSc, graduate Energy and Transport Management, voestalpine Stahl Donawitz GmbH

### CURRICULUM: 120 ECTS

1. Semester	2. Semester	3. Semester	4. Semester
Fuel and Biofuel 2 ECTS	Water Supply & Drainage 2 ECTS	Hydro Power 2 ECTS	
Integration of Renewable Energy 2 ECTS	Traffic Telematics 4 ECTS	Traffic Simulations	4 ECTS       troleum Engineering 2 ECTS       Emission Control 2 ECTS       Traffic Safety 2 ECTS       Traffic Safety 2 ECTS       Aspects of Infrastructure 2 ECTS       gy & Traffic Legislation 4 ECTS
Solarthermics & Geothermics 2 ECTS	Power & Emissions Trade 4 ECTS	4 ECTS	
Photovoltaics & Wind Power 2 ECTS		Petroleum Engineering 2 ECTS	
Energy Storage 2 ECTS	Environmental Chemistry 2 ECTS		
Local Transportation & Logistics 2 ECTS	Supervised Group Projects 2 6 ECTS		
Road Traffic Infrastructure 4 ECTS		Transport Economics 2 ECTS	
Supervised Group Projects 1 5 ECTS		Social Aspects of Infrastructure 2 ECTS	
Automatization & Control 4 ECTS	Modelling & Simulation 4 ECTS	Energy & Traffic Legislation 4 ECTS	
Grid Operation 4 ECTS	Environmental Control 2 ECTS	Management & Organisation 4 ECTS	
	Grid Maintenance 4 ECTS		Train Operation 2 ECTS
Urban & Regional Planning 4 ECTS	Financing 4 ECTS	International Project Development 4 ECTS	Traffic Management & Control 2 ECTS
Advanced Traffic Systems 4 ECTS	Public Relations 2 ECTS		Energy Management- & Demand-Side
Advanced Energy Systems 4 ECTS	Human Resources Management 3 ECTS		Management 4 ECTS