4TU. Energy Curriculum Overview

4TU. Energy

MSc Inorganic materials science (5 MSc Sustainable ECTS) MSc Advanced catalysis chemicals (5 ECTS) MSc Hydrogen MSc Energy for life-(5 ECTS) technology (5 ECTS) molecular nutritional MSc Catalytic processes & **BSc Separation** materials (5 ECTS) physiology of energy Technology metabolism (6 ECTS) (5 ECTS) MSc Electrochemistry: Fundamentals & **BSc Thermodynamics** techniques (5 ECTS) of life processes **BSc Energy** (6 ECTS) management **MSc Electrochemical** (5 ECTS) BSc Energy storage engineering MSc Capita selecta economic and transport (2.5 ECTS) matters for climate (5 ECTS) assessment (3 ECTS) **BSc Electrical power** BSc Energy, economy and systems (5 ECTS) MSc Energy society (5 ECTS) management (4 ECTS) MSc Energy **BSc Energy storage** MSc Physical modelling storage (5 ECTS) (5 ECTS) MSc Optimization of sustainable (6ECTS) MSc Transport MSc Decentral power generation energy systems (5 ECTS) BSc Modelling dynamic phenomena and active networks (5 ECTS) systems (6 ECTS) BSc Honors part energy transitions (5 ECTS) (15 ECTS) MSc 4TU responsible sustainability MSc Critical sustainable futures (2 ECTS) challenge (15 ECTS) **BSc Reliability of BSc Energy transition** sustainable power challenges (15 ECTS) MSc Sustainable engineering systems (3 ECTS) (5 ECTS) BSc Principles of biobased MSc Advanced thermal BSc Introduction to Electrical BSc Energy transition & economy (6 ECTS) energy storage Power Engineering (6 ECTS) sustainability (9 ECTS) (2.5 ECTS) MSc Circular sustainable BSc Energy efficiency (3 ECTS) business development (5 ECTS) MSc Energy conversion technology MSc Electrical power BSc Honors part 1 BSc Economics and governance of (5 ECTS) systems of the future nuclear fusion (15 ECTS) energy transitions (6 ECTS) (4 ECTS) **BSc Electrical** MSc Life cycle energy conversion MSc Physical aspects of analysis (3 ECTS) (5 ECTS) energy and sustainable BSc Physics of energy: sources, BSc Dynamics of development(5 ECTS) transport and storage (5 ECTS) energy systems MSc Floating offshore (5 ECTS) wind energy (3 ECTS) MSc Stakeholder MSc Energy analysis in from biomass sustainability MSc Airborne wind (5 ECTS) transitions (2 ECTS) energy (3 ECTS) BSc Energy (5 ECTS) MSc Renewable energy: sources, **BSc Sustainable electrical** technology applications (6 ECTS) distribution networks (3 ECTS) BSc Sustainable energy supply BSc Sustainable impact (5 ECTS) (5 ECTS) MSc Business model for MSc Geo-energy MSc Sustainability and justice sustainable energy (5 ECTS) BSc Sustainable energy engineering sources (5 ECTS) (2 ECTS) application (6 ECTS) MSc Water management (4 ECTS) MSc Power system MSc Solar energy **BSc Mechanics and** dynamics (4 ECTS) MSc Sustainability and law (3 ECTS) (5 ECTS) transport by flow in porous media (5 ECTS) MSc Psychology of sustainability (5 ECTS) BSc Climate change: MSc Physics of energy understanding the causes and MSc Environmental management materials (6 ECTS) solutions (5 ECTS) (4 ECTS) BSc Renewable Energy MSc Sustainability politics and BSc Energy transition Technology (3 ECTS) policies (5 ECTS) MSc Digital twin earth for perspectives (0 ECTS) Water, energy, and food MSc Policy and sustainability (3 ECTS) security (5 ECTS) MSc The sustainability game (2 ECTS) MSc Cyber security of **BSc Mineral Resource** MSc Intelligent electrical power grids (4 ECTS) BSc Sustainable civil Geology and power grids (4 ECTS) engineering Modelling (5 ECTS) (0 ECTS) MSc Distributed energy **MSc Climate** management for smart physics (9 ECTS) grids (5 ECTS) **MSc Energy** BSc House and anchoring Geoscience MSc Grand Challenges in the landscape (10 ECTS) (2.5 ECTS) MSc Digitalization & and Applied Earth sustainability (2 ECTS) Sciences (9 ECTS) **BSc Construction materials** BSc Solar heat and sustainability (5 ECTS) system (5 ECTS) BSc Health & sustainable living environment (5 ECTS) MSc Monte MSc Building integrated **BSc Construction and** MSc Thermal Carlo photovoltaics (5 ECTS) **BSc Introduction** climate design (5 ECTS) Simulations for energy storage building physics and BSc Circularity and energy Energy (2.5 ECTS) material science **BSc Introduction building** performance in the built Applications performance (5 ECTS) (5 ECTS) environment (5 ECTS) **MSc Thermal** 5 ECTS) energy storage and MSc Energy, water and BSc Residential building and demand nutrient cycles in the built residential environment (5 ECTS online) environment (6 ECTS) (10 ECTS)





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