

Energy Efficient and Sustainable Construction (M.Eng.)

Faculty of Management, Construction, Real Estate
Examination Regulations 2026

Module Overview

Modules of the Bridging Semester

- Solid Construction/Structural Engineering
- Building Materials Science
- Structural Engineering/Building Physics
- Fundamentals of CAD—2D, 3D, Visualization
- Building Energy Technology
- Fundamentals of Construction Management
- Fundamentals of Law
- Individual Exchange Module

Modules of the Master's Program

- Construction Contract Management and Sustainability
- Energy-Efficient Construction /
- Renewable Energy
- Elective Module WPM 1
- Profile Elective Module WPM 4
- Project 1
- Building Physics and Structural Design Planning and Simulation in Existing Buildings
- Elective Module WPM 2
- Elective Module WPM 3
- Profile Elective Module WPM 5
- Project 2
- Master's Thesis

Elective Modules WPM 1, WPM 2, WPM 3

- Fire Protection
- Simulation in Building Design
- Modern Methods of Structural Analysis
- Ecology and Sustainability in Building Law
- Building Damage and Renovation
- Damage and Renovation of Foundation Structures

- Energy Consulting
- Building Preservation
- Selected Structures in Steel and Engineered Wood Construction
- Innovations in Building Services Engineering (TGA)
- Building Biology
- Engineering Sociology and Technical Responsibility
- Experimental Development of Alternative and Sustainable Building Materials
- Sustainability of Building Products—From Product to Raw Material
- Visualization and 3D Techniques
- Urban Land-Use Planning/Building Codes
- Cost-Effectiveness of Building Services Systems
- Life Cycle Assessment and Sustainability Evaluation
- Special Topics in Construction Management
- Building Energy Technology
- Planning Communication

Elective Profile Modules WPM 4, WPM 5

- Building Maintenance
- Design with a Focus on Circular Construction
- Structural Damage and Building Renovation
- Building Design with a Focus on Structural Engineering
- Building Design with a Focus on Building Science
- Smart Building Systems – Monitoring, Data Analysis, and Optimization
- Energy Consulting

- Economic Efficiency of Building Services Systems
- Innovations in Building Services Engineering (TGA)
- Building Biology
- Applied Project Management
- Claims Management
- Special Topics in Construction Management
- Construction Economics, Cost Estimation, and Controlling