

institute	lecture	title	type	semester hours	ECTS
Mechanics of Materials and Structures	202.019	Engineering biochemoporomechanics	VO	2,0	3,0
	202.024	Engineering Biochemoporomechanics	UE	2,0	2,0
	202.051	Advanced Macro- & Micromechanics of Materials	VO	2,5	3,5
	202.052	Advanced Macro- & Micromechanics of Materials	UE	1,0	1,0
	202.054	Computational Material Modelling	VU	2,5	3,0
	202.064	Computational Biomaterials and Biomechanics	VU	2,0	3,0
	202.647	Mathematical Systems Biology	VO	1,0	1,5
	202.649	Multiscale Material Modelling	VO	2,0	3,0
	202.650	Multiscale Material Modelling	UE	2,0	2,0
Material Technology, Building Physics, and Building Ecology	206.072	Gas metal arc welding*	LU	4,0	4,0
	206.073	Shielded metal arc welding*	LU	4,0	4,0
	206.091	Metallic Materials With Excursion	SE	3,0	3,0
	206.092	Welding Technology With Excursion	SE	3,0	3,0
	206.177	Welding technology*	LU	2,0	2,0
	206.272	Pipeline Engineering*	VO	2,0	3,0
	206.273	Welding and Joining Technology 1*	VO	2,0	3,0
	206.274	Welding and Joining Technology 2*	VO	2,0	3,0
	206.327	Energy and Moisture Engineering	VU	2,0	3,0
	207.012	Foundations of Building Science *	VU	2,0	3,0
	207.013	Introduction to Digital Twins for Buildings and Cities*	VU	1,0	2,0
	207.014	Advanced Numerical Methods in Building Science 1*	VU	2,0	3,0
	Construction, Structural Dynamics and Building Technology	206.194	Basics of stochastic mechanics	VU	1,0
206.263		Nonlinear Dynamics - Numerics and Animation	Vu	2,0	3,0
206.319		Masonry Engineering in New Buildings *	SE	3,0	3,0
206.321		Glass in construction	VO	2,0	3,0
206.324		Refurbishment of buildings	VO	2,0	3,0
206.326		Tensegrity systems and geodesic domes	VU	1,5	2,0
206.341		Structural Optimization	VO	2,0	3,0
Structural Engineering	212.467	Concrete Bridges	VU	3,0	4,0
Geotechnics	203.110	Underground excavation design	SE	1,5	1,5
	220.015	Finite-Difference Models in Geoengineering	VU	2,0	2,5
	220.027	Numerical Geotechnics	VO	1,5	2,5
	220.030	Geosynthetics	VO	1,5	2,5
Hydraulic Engineering and Water Resources Management	222.052	Selected topics in Hydraulic- and Dam Engineering I	VO	2,0	3,0
	222.139	Soft Computing in Hydraulic and Structural Engineering Theory and Practice	VO	2,0	3,0
	222.146	Modelling and simulation methods in water resource systems	VO	1,0	1,5
	222.149	Water resource systems and socio-economic concepts	VO	2,0	3,0
	222.531	Case studies of integrated water resources analyses	VO	1,5	2,5
	222.539	Engineering Hydrology*	UE	1,0	1,0
	222.563	Fracture Mechanics of Concrete Dams Fracture Mechanics of Concrete Dams	VO	2,0	3,0
	222.570	Engineering Hydrology 2	VU	2,0	2,5
	222.574	Konstruktiver Wasserbau 3	VO	2,5	3,5
	222.580	Modelling and simulation methods in water resource systems	VU	3,0	4,0
222.581	Hydrometry	VU	1,5	2,0	
Water Quality, Resources and Waste Management	166.224	Health related water quality targets and urban water management	VO	1,5	2,3
	226.023	Transfer of Environmental Technology to Developing Countries	SE	2,0	2,0
	226.048	Ecology	SE	2,0	2,0
	226.050	Advanced wastewater treatment and reuse	VO	2,0	1,5
	226.052	Freshwater quality and ecology	VO	2,0	1,5
	226.054	Resource Management	VU	1,5	2,0
	226.059	Environmental Assessment	VU	2,5	3,0
Transportation	230.012	Pavement Maintenance Management	VO	2,0	3,0
	230.042	National and European Transport Policies	VO	2,0	3,0
	230.044	Road Pavement Materials	VO	2,0	3,0
	230.045	Pavement Design and Modelling	VO	2,0	3,0
	230.049	Technology Impact Assessment Methods for Land Use and Transport Systems	VU	2,0	2,0
	231.001	Training college on transport planning	SE	2,0	2,0
	231.013	Seminar on transport planning	SE	2,0	2,0
	231.043	Field trip transport planning*	SE	2,0	2,0
Interdisciplinary Construction Process Management	231.946	Fundamentals of traffic planning*	SE	2,0	3,5
	234.116	International Construction Project Management	SE	2,0	2,0
	234.154	The future of construction processes	SE	1,5	1,5
	234.984	Built Examples	SE	1,0	1,0
	234.985	Lifecyclecosts and -analysis*	SE	2,0	2,0

	Bachelor programme Civil Engineering and Bachelor programme Environmental Engineering
	Bachelor programme Environmental Engineering
	Master programme Civil Engineering Science