

Lectures held in English / Department of Architecture, Civil Engineering and Environmental Sciences / as of 02 November 2018

Title in English	Title in German	ECTS	Institute of ...	University Lecturer / Professor	Contact Person	E-Mail of Contact Person	Term	Academic level	Study programme / specialisation	Module number	Comment
Linear Solid Mechanics	Lineare Kontinuumsmechanik	6	Applied Mechanics	Prof. Dr.-Ing. Laura De Lorenzis	Dr. Roland Kruse	r.kruse@tu-bs.de	winter	Master	Civil Engineering	BAU-STD4-21	
Non-linear Solid Mechanics	Nichtlineare Kontinuumsmechanik	6	Applied Mechanics	Prof. Dr.-Ing. Laura De Lorenzis	Dr. Roland Kruse	r.kruse@tu-bs.de	summer	Master	Civil Engineering	BAU-STD3-83	
Introduction to Fracture Mechanics	Einführung in die Bruchmechanik	6	Applied Mechanics	Prof. Dr.-Ing. Laura De Lorenzis	Dr. Roland Kruse	r.kruse@tu-bs.de	winter	Master	Civil Engineering	BAU-STD4-13	
Isogeometric Methods	Isogeometrische Methoden	6	Applied Mechanics	Prof. Dr.-Ing. Laura De Lorenzis	Dr. Roland Kruse	r.kruse@tu-bs.de	summer	Master	Civil Engineering	NN	
Sustainable Cyber Physical Production Systems	Nachhaltige cyber-physische Produktionssysteme	6	Machine Tools and Production Technology	Dr.-Ing. Sebastian Thiede, Prof. Dr.-Ing. Christoph Herrmann	Max Juraschek	m.juraschek@tu-braunschweig.de	winter	Master	Environmental Engineering / Environmental Sustainability and Life Cycle Engineering	MB-IWF-58	
Energy Efficiency in Production Engineering	Energieeffizienz in der Produktionstechnik	6	Machine Tools and Production Technology	Prof. Dr.-Ing. Christoph Herrmann, Dr.-Ing. Sebastian Thiede	Lennart Büth	l.bueht@tu-braunschweig.de	summer	Master	Environmental Engineering / Environmental Sustainability and Life Cycle Engineering	MB-IWF-49	
Material Resources Efficiency in Engineering	Materialeffizienz im Ingenieurwesen	6	Machine Tools and Production Technology	Prof. Dr.-Ing. Christoph Herrmann	Selin Erkisi-Arici	s.erkisi@tu-braunschweig.de	summer	Master	Environmental Engineering / Environmental Sustainability and Life Cycle Engineering	MB-IWF-50	
Life Cycle Assessment for Sustainable Engineering	Lebenszyklusanalyse für nachhaltiges Ingenieurwesen	6	Machine Tools and Production Technology	Prof. Dr.-Ing. Christoph Herrmann	Nicolas Bogner	n.bogner@tu-braunschweig.de	winter	Master	Environmental Engineering / Environmental Sustainability and Life Cycle Engineering	MB-IWF-46	
Methods and Tools for Life Cycle Oriented Vehicle Engineering	Methoden und Werkzeuge für ein lebenszyklusorientiertes Fahrzeugingenieurwesen	6	Machine Tools and Production Technology	Prof. Dr.-Ing. Christoph Herrmann, Prof. Dr.-Ing. Thomas Vietor	Tobias Wagner	t-a.wagner@tu-braunschweig.de	winter	Master	Environmental Engineering / Environmental Sustainability and Life Cycle Engineering	MB-IWF-51	
Plant-based Natural Fibre Reinforcements in Construction		3	Building Materials, Concrete Construction and Fire Safety	Univ. Jun.-Prof. Dr. Libo Yan	Univ. Jun.-Prof. Dr. Libo Yan	l.yan@tu-braunschweig.de	winter	Master	Civil Engineering, Environmental Engineering, Sustainable Design	BAU-iBMB-057	
Advance Composite Materials in Construction		3	Building Materials, Concrete Construction and Fire Safety	Univ. Jun.-Prof. Dr. Libo Yan	Univ. Jun.-Prof. Dr. Libo Yan	l.yan@tu-braunschweig.de	summer	Master	Civil Engineering, Environmental Engineering, Sustainable Design	BAU-iBMB-001	
Advanced Characterization of Bituminous Materials		2	Braunschweig Pavement Engineering Centre	Prof. Dr.-Ing. Augusto Cannone Falchetto	Prof. Dr.-Ing. Augusto Cannone Falchetto	a.cannone-falchetto@tu-braunschweig.de	summer	Master	Civil Engineering, Environmental Engineering, Transportation Engineering	BAU-SW-001	
Fracture and Scaling in Asphalt Materials		2	Braunschweig Pavement Engineering Centre	Prof. Dr.-Ing. Augusto Cannone Falchetto	Prof. Dr.-Ing. Augusto Cannone Falchetto	a.cannone-falchetto@tu-braunschweig.de	summer	Master	Civil Engineering, Environmental Engineering, Transportation Engineering	BAU-SW-003	
Ancient Architecture	Antike Architektur	5	Building History	Prof. Dr.-Ing. Alexander von Kienlin	Prof. Dr.-Ing. Alexander von Kienlin	baugeschichte@tu-braunschweig.de	winter / summer	Bachelor / Master	Architecture	A3/M1	Working title Module A3/M1: One out of three seminars is in English, subjects may change.
Conservation Biology	Naturschutz-Biologie	2	Geoecology	Prof. Dr. Frank Suhling	Prof. Dr. Frank Suhling	f.suhling@tu-braunschweig.de	winter	Master	Environmental Sciences	GEA-STD2-23	
Conservation Science	Naturschutzwissenschaften	2	Geoecology	Prof. Dr. Frank Suhling	Prof. Dr. Frank Suhling	f.suhling@tu-braunschweig.de	summer	Master	Environmental Engineering	GEA-STD-95	
Urban Analytics		6	Sustainable Urbanism	Prof. Dr. Vanessa Miriam Carlow, Pablo Martínez Díez, Mar Santamaria Vara	Dipl.-Ing. Olaf Mumm	isu@tu-braunschweig.de	winter	Master	Architecture, Sustainable Design, Various (open to interdisciplinary programs)		
Introduction to Finite Element Methods	Einführung in die Finite-Element-Methoden	5	Structural Analysis	apl. Prof. Dr.-Ing. Ursula Kowalsky	Rahav Venkateswaran M.Sc.	r.venkateswaran@tu-braunschweig.de	summer	Master	Computational Sciences in Engineering	INF-CSE2-68	
Railway Signalling Principles	Prinzipien der Eisenbahnsicherungstechnik	6	Railway Systems Engineering and Traffic Safety	Prof. Dr.-Ing. Jörn Pacht	Prof. Dr.-Ing. Jörn Pacht	j.pacht@tu-braunschweig.de	winter	Master	Transportation Engineering, Civil Engineering	BAU-STD4-90	Cannot be combined with the German module "Bahnsicherungstechnik".
Various Subjects, please see list of modules: https://www.tu-braunschweig.de/Medien-DB/cse/modulhandbuch15.pdf								Master	Interdisciplinary Bilingual Master's Program: Computational Sciences in Engineering		

Lectures held in German with additional support in English

										Support options					
										Coaching for international students	Slides in English	Script in English	Possibility for lecture in English	Other	
Review seminar	Literaturseminar	3	Geoecology	Prof. Dr. Frank Suhling	Dr. Anett Schibalski	a.schibalski@tu-bs.de	summer / winter	Master	Environmental Sciences	GEA-STD-25	yes	yes	yes	yes	talk and paper can be done in English
Distribution and population models	Verbreitungs- und Populationsmodelle	6	Geoecology	Prof. Dr. Schröder-Esselbach	Dr. Anett Schibalski	a.schibalski@tu-bs.de	summer	Master	Environmental Sciences / Ecological Modelling in Biodiversity	GEA-UA-13	yes	yes	no	yes	no
Water Supply and Wastewater Treatment	Wasserver- und Abwasserentsorgung	3	Sanitary and Environmental Engineering	Prof. Dr.-Ing. Norbert Dichtl	MSc Sören Hornig	so.hornig@tu-braunschweig.de	summer	Bachelor	Civil Engineering, Environmental Engineering, Environmental Sciences	BAU-STD3-77	yes	no	yes	no	oral exam in English possible
Processes of Wastewater Treatment	Verfahrenstechnik der Abwasserbehandlung	4	Sanitary and Environmental Engineering	Prof. Dr.-Ing. Norbert Dichtl	Dr.-Ing. Katrin Bauerfeld	k.bauerfeld@tu-bs.de	winter	Master	Civil Engineering, Environmental Engineering, Environmental Sciences	BAU-STD2-66	yes	no	yes	no	oral exam in English possible
Sewage Sludge Treatment and Disposal	Verfahrenstechnik der Schlammbehandlung	2	Sanitary and Environmental Engineering	Prof. Dr.-Ing. Norbert Dichtl	Dr.-Ing. Katrin Bauerfeld	k.bauerfeld@tu-bs.de	winter	Master	Civil Engineering, Environmental Engineering, Environmental Sciences	BAU-STD2-66	yes	no	yes	no	oral exam in English possible
Water Chemistry and Wateranalytics	Wasserchemie und Wasseranalytik	3	Sanitary and Environmental Engineering	Prof. Dr.-Ing. Thomas Dockhorn	Dr.-Ing. Katrin Bauerfeld	k.bauerfeld@tu-bs.de	summer	Master	Civil Engineering, Environmental Engineering, Environmental Sciences	BAU-STD2-64	yes	no	yes	no	oral exam in English possible
Drinking Water Treatment	Trinkwasserbehandlung	3	Sanitary and Environmental Engineering	Prof. Dr.-Ing. Norbert Dichtl	MSc Sören Hornig	so.hornig@tu-braunschweig.de	summer	Master	Civil Engineering, Environmental Engineering, Environmental Sciences	BAU-STD2-64	yes	no	yes	no	oral exam in English possible
Introduction in designing 1.1	Einführung in das Entwerfen 1.1	6	Experimental Architecture	Prof. B. Penkhues	Jan Pingel	ie@tu-bs.de	winter	Bachelor	Architecture	ARC_STD-82	possible	no	no	no	Bilingual consultations are offered in English on demand.
Introduction in designing 1.2	Einführung in das Entwerfen 1.2	6	Experimental Architecture	Prof. B. Penkhues	Jan Pingel	ie@tu-bs.de	summer	Bachelor	Architecture	ARC-E1-06	possible	no	no	no	Bilingual consultations are offered in English on demand.
Introduction in architectural drawing and CAD	Einführung in das Zeichnen und CAD	5	Experimental Architecture	Prof. B. Penkhues	Jan Pingel	ie@tu-bs.de	winter	Bachelor	Architecture	ARC-STD-76	possible	no	no	no	Bilingual consultations are offered in English on demand.
Urban Design Projects	Städtebauliches Projekt	10	Sustainable Urbanism	Prof. Dr. Vanessa Miriam Carlow	Diana Felber	isu@tu-braunschweig.de	winter	Bachelor	Architecture		yes	partially	no	no	One to one consultations are an essential component of design studios. These are offered bilingual
Bachelorthesis	Bachelorarbeit	14	Sustainable Urbanism	Prof. Dr. Vanessa Miriam Carlow	Carolin Brüggelbusch	isu@tu-braunschweig.de	winter	Bachelor	Architecture		yes	yes	no	no	One to one consultations are an essential component of design studios. These are offered bilingual
iSCOR - Interdisciplinary Studio for Communicational and Observational Research	iSCOR - Interdisciplinary Studio for Communicational and Observational Research	6		Prof. Dr. Vanessa Miriam Carlow	Olaf Mumm	isu@tu-braunschweig.de	winter	Bachelor / Master	Architecture, Sustainable Design, others (open to interdisciplinary programs)		yes	partially	no	no	One to one consultations are an essential component of iSCOR. These are offered bilingual
Inprompt Design	Stegreif	1	Sustainable Urbanism ISU	Prof. Dr. Vanessa Miriam Carlow	Diana Felber	isu@tu-braunschweig.de	winter	Bachelor / Master	Architecture, Sustainable Design		yes	no	no script	no	no
Structural Dynamics I + II	Strukturodynamik I + II	5	Structural Analysis	Prof. Dr.-Ing. Dieter Dinkler	Dr.-Ing. Marco Schauer	m.schauer@tu-braunschweig.de	winter / summer	Master	Civil Engineering, Computational Sciences in Engineering	INF-CSE2-13	yes	no	in progress	no	examination in English
Climate System and Climate Variability	Klimasystem und Klimavariabilität	3	Institute of Geosystems and Bioindication, Institute of Geoecology	Prof. Schwalb, Prof. Stephan Weber	Prof. Dr. Antje Schwalb	antje.schwalb@tu-bs.de	winter	Master	Environmental Sciences / Atmosphere and Boundary Layer Processes	GEA-STD2-06	possible	yes	no	yes	