

Regulations for the degree programme *Bauingenieurwesen* – Civil Engineering Master of Science (M.Sc.)

Implementation regulations
with appendices

I: Study and examination plan

II: Competence descriptions

III: Module handbook (*only published electronically*)

dated 22/07/2020

Die englische Übersetzung dient nur zu Informationszwecken. Rechtlich verbindlich ist der deutsche Text.

The English translation is for information purposes only. The legally binding document is the German version.



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Resolution of the Departmental Council on 22 July 2020

Coming into force on 01 October 2021

The Regulations for the degree programme M.Sc. *Bauingenieurwesen* – Civil Engineering of the Department of Civil and Environmental Engineering, dated 22 July 2020, supplementing the APB (*Allgemeine Prüfungsbestimmungen* – General Examination Regulations) of Technical University of Darmstadt, have been published, based on the approval of the Executive Board of Technical University of Darmstadt on 11 March 2021 (Ref. 652-2-2).

Darmstadt, 11 March 2021

The President of
Technical University of Darmstadt
Prof. Dr. Tanja Brühl

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1. Implementation regulations

For Section 2(1): Degrees

The degree programme M.Sc. *Bauingenieurwesen* – Civil Engineering is carried out by the Department of Civil and Environmental Engineering at Technical University of Darmstadt. Technical University of Darmstadt awards the degree Master of Science once the total of 120 credit points (CPs) required for the degree programme has been achieved.

For Section 5(2),(3): Modules, components and type of examination

Appendix I, the study and examination plan, to these implementation regulations specifies the type (technical examination, study examination), scope, number and form (oral, written or special form and specification) of the examination components as well as the weighting with which these are included in the overall grade for the module.

Examinations that are taken in other departments are governed by the regulations of the departments offering them.

For Section 11(4),(5): General admission requirements – language of instruction

The language of instruction for the degree programme is English and German.

For Section 17a(1): Entry requirements and entrance competencies for Master's degree programmes

The entry requirements for the Master's degree programme M.Sc. *Bauingenieurwesen* – Civil Engineering and, in particular, the prior knowledge and qualifications (entrance competencies) required from the applicants are defined below.

For Section 17a(2): Entrance competencies for a consecutive Master's degree programme

The entrance competencies for the consecutive Master's degree programme *Bauingenieurwesen* – Civil Engineering are based on the competence profile defined for the Bachelor's degree programme *Bauingenieurwesen und Geodäsie* (Civil Engineering and Geodesy) focussing on *Bauingenieurwesen* (Civil Engineering) that is used as a reference degree programme for admission to the Master's degree programme.

Details regarding the entrance competencies are specified in the competence description in Appendix II. The entry requirement for the Master's degree programme *Bauingenieurwesen* – Civil Engineering is a Bachelor's degree in the reference degree programme at Technical University of Darmstadt or a degree in a degree programme that teaches competencies that are not substantially different from those taught in the reference degree programme (comparable degree programme).

For Section 17a(4) lit. a) and b): Formal entrance examination

During the formal entrance examination, proof of the required entrance competencies is verified on the basis of the written documents to be submitted by the applicants. The following documents must be submitted: the transcript for the first degree and the Diploma Supplement or comparable documents for the degree programme leading to the first degree.

Applicants can also submit the following additional documents:

Applicant competence information

For Section 17a(4) lit. c): Substantive entrance examination

If the entrance competencies could not be clarified positively or negatively during the formal entrance examination, a substantive entrance examination will then be conducted.

The entrance examination cannot be retaken in this application procedure.

As part of the substantive entrance examination, an oral examination of 30 minutes is conducted either on the premises of Technical University of Darmstadt or alternatively via Internet-based video telephony that is unobjectionable under data protection law, with the identity of the applicant determined by a trustee on site (in particular, employees of cooperating universities or DAAD). The trustee also ensures that the examination procedure is carried out lawfully on site.

For Section 17a(8): Admission subject to conditions

If, after an entrance examination, it is found that the applicant lacks entrance competencies that can be compensated for by completing modules amounting to no more than 30 CPs, admission may be granted subject to conditions. The letter of admission lists the modules or technical examinations that are required. The conditions must be met by the end of the second regular semester.

The conditions are governed by the APB (*Allgemeine Prüfungsbestimmungen* – general examination regulations) of Technical University of Darmstadt with the exception of the second resit/retake examination in accordance with Section 31 APB and the oral supplementary examination (mEP) in accordance with Section 32 APB, i.e., only two attempts per condition are permitted.

For Section 18: Admission requirements

The admission requirements for examinations or modules, if any, are specified in Appendix I and III of these implementation regulations, containing the study and examination plan and the module descriptions respectively.

For Section 22(2): Conducting examinations – duration of the oral examination

The duration of the oral examination (at least 15 minutes per examinee and examination) is specified in Appendix I of these implementation regulations, containing the study and examination plan.

For Section 22(5): Conducting examinations – duration of supervised examinations

The duration of supervised examinations (at least 45 minutes) is specified in Appendix I of these implementation regulations, containing the study and examination plan.

For Section 23(2): Thesis – requirements

The topic of the thesis is only issued when possibly required conditions in accordance with Section 17a(8) APB have been completed successfully in the degree programme.

For Section 23(5): Thesis – preparation time

The thesis includes a workload of 24 CPs (720 hours) and must be completed and submitted within 26 weeks.

For Section 25(1),(3): Formation and weighting of grades

The assessment system for each examination component is specified in Appendix I of these implementation regulations, containing the study and examination plan. The study and examination plan also specifies how the grades for the technical examinations and study examinations are weighted for module grading. Unless otherwise specified, the grades of each examined component within a specific module are totalled and weighted according to the credit points assigned to each of these components to produce the final module grade.

For Section 28(3): Overall grade

Appendix I, the study and examination plan, to these implementation regulations specifies how the module grades are weighted for overall grading. Unless otherwise specified in Appendix I, the module grades are included and weighted in the overall grade according to the credit points earned in the modules.

For Section 38a: Taking effect

These implementation regulations take effect on 01 October 2021. They will be published in the *Satzungsbeilage* (appendix to the statutes) of Technical University of Darmstadt.

Appendix I	Study and examination plan
Appendix II	Competence descriptions
Appendix III	Module descriptions

Darmstadt, 18 February 2021

The Departmental Chairperson of Civil and Environmental Engineering
Technical University of Darmstadt

1.1. Appendix I: Study and examination plan

Master's programme Bauingenieurwesen - Civil Engineering (M.Sc.) 2021



Study and Examination Plan (Annex I)

Explanation of abbreviations	Examinations(Course						Semester									
		Technical examination (TE, Fachprüfung)	Study examination (SE, Studienleistung)	Examination type	Duration (min)	Weighting for module grade (W)	Weighting for overall grade (W)		Contact hours per week (SWS, Semesterwochenstunden)	Status (St)	Language of tuition (L)	Teaching type (C)	CP in total	Wise 1.	SoSe 2.	Wise 3.	SoSe 4.
Evaluation system (referring to technical examinations and study examinations)	St=graded (Standard); bnb=passed/not passed (bestanden/nicht bestanden)																
Examination type	A=Submission (Abgabe), B=Report (Bericht), H=Homework assignment (Hausarbeit), HÜ=Homework, worksheets (Hausübungen, Arbeitsblätter), K=Written exam (Klausur), Kq=Colloquium (Kolloquium), mP=Oral examination (mündliche Prüfungsleistung), P=Minutes (Protokoll), Pf=Portfolio, Pt=Presentation (Präsentation), R=Paper (Referat), SF=Special form (Sonderform), Th=Thesis																
Status	o=obligatory (obligatorisch); f=mandatory (fakultativ)																
Language of tuition	e=English; g=German; e+g=English and German parts; g/e=German or English (by arrangement)																
Teaching type	EX= Excursion (Exkursion); OV=Orientation course (Orientierungsveranstaltung); PJ=Project (Projekt); PR=Practical course (Praktikum); S=Seminar; Ü=Exercise (Übung); VL=Lecture (Vorlesung); VU=Lecture and Exercise (Vorlesung und Übung)																
CP:	Credit Points																
TUCaN-No. and assignment of CPs to module components have informative character. The CP will be credited after completion of the module.																	
I. Mandatory Subject Area																	
13-01-M003	Interdisziplinäres Projekt Bau und Umwelt (IPBU)	St		mP	15	1	1	5	o	g/e							
13-01-0005-se	Interdisziplinäres Projekt IPBU- Projekt-Kick-Off		bnb	Pt	20						S						
13-01-0006-ov	Interdisziplinäres Projekt IPBU - Auftaktveranstaltung										OV						
13-01-0014-se	Interdisziplinäres Projekt IPBU - Einführung in die Projektarbeit										S						
II. Subject-Related Compulsory Elective Area (Range of Research Subjects)																	
Wahl von 3 Forschungsfächern (Forschungs-Basismodule) sowie Forschungs-Vertiefungsmodulen aus einem der gewählten Forschungsfächer entsprechend der empfohlenen Berufsbilder (s. Studieninformation)																	
Research subject Construction, Maintenance and Rehabilitation of Transport Facilities																	
Basic Research Modules (Construction, Maintenance and Rehabilitation of Transport Facilities) - range of subjects																	
13-J2-M020	Konstruktive Gestaltung von Verkehrsanlagen	St		K	90	1	1	4	o	g							
13-J2-0020-vl	Konstruktive Gestaltung von Verkehrsanlagen		bnb	HU+Kq	20						VL						
13-J2-0020-ue	Konstruktive Gestaltung von Verkehrsanlagen - Übung										U						
13-J2-M019	Management of Traffic Infrastructure I	St		K	90	1	1	4	o	e							
13-J2-0019-vl	Management of Traffic Infrastructure I		bnb	HU+Kq	20						VL						
13-J2-0019-ue	Management of Traffic Infrastructure I - Exercise										U						
Specialization Research Modules (Construction, Maintenance and Rehabilitation of Transport Facilities) - Range of Subjects																	
13-J2-M024	Erhaltungsstrategien für Straßen und Schienenwege	St		mP	20	1	1	2	o	g							
13-J2-0024-vl	Erhaltungsstrategien für Straßen und Schienenwege										VL						
13-J2-M023	Management of Traffic Infrastructure II	St		mP	20	1	1	2	o	e							
13-J2-0023-vl	Management of Traffic Infrastructure II										VL						
13-J2-M021	Specialization in Road Construction	St		mP	20	1	1	2	o	e							
13-J2-0021-vl	Specialization in Road Construction										VL						
13-J2-M022	Vertiefung in Eisenbahnbau	St		mP	20	1	1	2	o	g							
13-J2-0022-vl	Vertiefung in Eisenbahnbau										VL						
Research Subject Construction Technologies and Management																	
Basic Research Modules (Construction Technologies and Management) - Range of Subjects																	
13-A0-M002	Baubetrieb IV	St		mP	15	1	1	4	o	g							
13-A0-0006-vl	Baubetrieb IV		bnb	Kq+HU							VU						
13-A0-M001	Construction Technologies and Management III	St		K	120	1	1	4	o	e							
13-A0-0003-vl	Construction Technologies and Management III		bnb	HU							VU						
Specialization Research Modules (Construction Technologies and Management) - Range of Subjects																	
13-A0-M003	Baubetrieb V	St		mP	15	1	1	5	o	g							
13-A0-0008-vl	Baubetrieb V		bnb	Pt+K	90						VU						
13-A0-M004	Baubetrieb VI	St		mP	15	1	1	5	o	g							
13-A0-0011-vl	Baubetrieb VI		bnb	Pt							VU						
Research Subject Building Construction and Building Physics																	
Basic Research Modules (Building Construction and Building Physics) - range of subjects																	
13-D3-M001	Advanced Building Physics	St		K	90	1	1	4	o	e							
13-D3-0002-vl	Advanced Building Physics		bnb	SF							VL						
13-D3-0002-ue	Advanced Building Physics - Exercise										U						
13-D1-M001	Konstruktives Gestalten	St		A+Pt		1	1	4	o	g							
13-D1-0008-vl	Konstruktives Gestalten		bnb	A+Pt							VL						
13-D1-0009-ue	Konstruktives Gestalten - Übung										U						

Specialization Research Subjects (Building Construction and Building Physics) - range of modules										f					0-12				
13-D3-M015	Bauen im Bestand und Energetische Sanierung	St		K	90	1	1	2	f	g	VL	6			6				
			bnb	B+Pt		0	0										x		
13-D3-0010-vl	Bauen im Bestand und Energetische Sanierung							2			VL						x		
TUCaN-No	Title of module	TE	SE	Type	Duration	W	SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.				
13-D1-M007	Green Building Design I	St		A+B		1	1	4	f	g	VL	6			6				
			bnb	Pt		0	0												
13-D1-0015-vl	Green Building Design I							1			VL						x		
13-D1-0016-ue	Green Building Design I - Übung							3			U						x		
13-D1-M008	Green Building Design II	St		B+Pt	15	1	1	4	f	e	VL	6					6		
			bnb	HU		0	0												
13-D1-0017-vl	Green Building Design II							1			VL						x		
13-D1-0018-ue	Green Building Design II - Exercise							3			U						x		
13-D1-M022	Green Building Design Project	St		A+B		1	1	4	f	g	VL	6			6				
			bnb	Pt		0	0												
13-D1-0022-pj	Green Building Design Project							1			PJ						x		
13-D1-0022-ue	Green Building Design Project Exercise							3			U						x		
Basic research modules (Construction Mechanics) - range of subjects												18							
13-E1-M019	Computational Plasticity	St		mP	15	50	1	4	f	e	VL	6		6					
			bnb	H		50	0												
13-E1-0019-vu	Computational Plasticity							4			VU						x		
13-E1-M001	Finite-Element-Methoden I	St		mP	30	1	1	4	o	g	VL	6		6					
			bnb	HU		0	0												
13-E1-0003-vl	Finite-Element-Methoden I							2			VL						x		
13-E1-0004-ue	Finite-Element-Methoden I - Übung							2			U						x		
Specialization research modules (Construction Mechanics) - range of subjects												0-12							
13-D2-M036	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen	St		mP/K	15/45	1	1	2	f	g	VL	3		3					
								1									x		
13-D2-0036-vl	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen							1			VL						x		
13-D2-0036-ue	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen - Übung							1			U						x		
13-D2-M035	Angewandte Baudynamik - Erdbebeningenieurwesen	St		mP/K	15/45	1	1	2	f	g	VL	3	3						
								1									x		
13-D2-0035-vl	Angewandte Baudynamik - Erdbebeningenieurwesen							1			VL						x		
13-D2-0035-ue	Angewandte Baudynamik - Erdbebeningenieurwesen - Übung							1			U						x		
13-M2-M024	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen	St		mP/K	15/45	1	1	2	f	g	VL	3		3					
								1									x		
13-M2-0024-vl	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen							1			VL						x		
13-M2-0024-ue	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen - Übung							1			U						x		
13-M2-M023	Grundlagen der Baudynamik	St		mP/K	15/45	1	1	2	f	g	VL	3	3						
								1									x		
13-M2-0023-vl	Grundlagen der Baudynamik							1			VL						x		
13-M2-0023-ue	Grundlagen der Baudynamik - Übung							1			U						x		
13-I2-M001	Betriebsfestigkeit	St		mP	30	1	1	4	f	g	VL	6					6		
								2									x		
13-I2-0001-vl	Betriebsfestigkeit							2			VL						x		
13-I2-0002-ue	Betriebsfestigkeit - Übung							2			U						x		
13-I2-M002	Bruchmechanik	St		mP	30	1	1	4	f	g	VL	6					6		
								3									x		
13-I2-0007-vl	Bruchmechanik							1			VL						x		
13-I2-0008-ue	Bruchmechanik - Übung							1			U						x		
13-E1-M002	Finite-Element-Methoden II	St		mP	30	1	1	4	f	g	VL	6					6		
			bnb	HU		0	0												
13-E1-0005-vl	Finite-Element-Methoden II							2			VL						x		
13-E1-0006-ue	Finite-Element-Methoden II - Übung							2			U						x		
13-E2-M002	Continuum Mechanics I	St		mP	30	1	1	4	f	g/e	VL	6					6		
								3									x		
13-E2-0004-vl	Continuum Mechanics I							1			VL						x		
13-E2-0005-ue	Continuum Mechanics I - Exercise							1			U						x		
13-E2-M003	Continuum Mechanics II (Material Theory)	St		mP	30	1	1	4	f	e	VL	6					6		
								3									x		
13-E2-0006-vl	Continuum Mechanics II (Material Theory)							1			VL						x		
13-E2-0007-ue	Continuum Mechanics II (Material Theory) - Exercise							1			U						x		
11-01-4109	Micromechanics for Materials Science	St		mP/s	30/90	1	1	4	f	e	VL	6					6		
								3									x		
11-01-7050-vl	Micromechanics for Materials Science							1			VL						x		
11-01-7050-ue	Exercises in Micromechanics for Materials Science							1			U						x		
13-I2-M003	Schweißen und Schweißsimulation	St		R	30	1	1	4	f	g	VL	6					6		
								4			S						x		
13-I2-0010-se	Schweißen und Schweißsimulation																		
Research Subjects Geotechnics												12-24							
Basic research modules (Geotechnics) - range of subjects												12							
13-Co-M001	Geotechnics III	St		K	90	1	1	4	o	e	VL	6	6						
			bnb	HU		0	0												
13-Co-0011-vl	Geotechnics III							2			VL						x		
13-Co-0012-ue	Geotechnics III - Exercise							2			U						x		
13-Co-M002	Geotechnics IV	St		K	90	1	1	4	o	e	VL	6		6					
			bnb	HU		0	0												
13-Co-0015-vl	Geotechnics IV							2			VL						x		
13-Co-0016-ue	Geotechnics IV - Exercise							2			U						x		
Specialization research modules (Geotechnics) - range of subjects												0-12							
13-Co-M003	Geotechnisches Praktikum und Projektseminar I	St		mP	20	1	1	4	o	e+g	VL	6		6					
		St		H+Pt	15	1	1												
			bnb	Pf		0	0												
13-Co-0017-se	Geotechnical Project Seminar I							2		e	S						x		
13-Co-0040-pr	Geotechnisches Praktikum I							2		g	PR						x		
13-Co-M004	Geotechnisches Praktikum und Projektseminar II	St		mP	20	1	1	4	o	e+g	VL	6					6		
		St		H+Pt	15	1	1												
			bnb	Pf		0	0												
13-Co-0018-se	Geotechnical Project Seminar II							2		e	S						x		
13-Co-0039-pr	Geotechnisches Praktikum II							2		g	PR						x		
Research Subject Water Management												12-24							
Basic research modules (Water Management) - range of subjects												12							
13-L1-M002	Ingenieurhydrologie II	St		K	90	1	1	4	o	g	VL	6	6						
			bnb	H		0	0												
13-L1-0003-vl	Ingenieurhydrologie II							2			VL						x		
13-L1-0004-ue	Ingenieurhydrologie II - Übung							2			U						x		
13-K8-M001	Pollutants in the Water Cycle	St		K	90	1	1	4	o	e	VL	6		6					
			bnb	B+Pt		0	0												
13-K8-0001-vu	Pollutants in the Water Cycle: Sources and Fate in the Aquatic Environment							4			VU						x		

Specialization research modules (Water Management) - range of subjects											0-12				
TUCaN-No	Title of module	TE	SE	Type	Duration	W	SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.
13-K6-M001	Applied (Environmental) Microbiology for Engineers	St		mp/K	15/60	3	1	4	f	e					6
			St	H/B+Pt		2				S					x
13-K6-0001-se	Applied (Environmental) Microbiology for Engineers														
13-K4-M007	Infrastructure Planning	St		K	120	1	1	4	f	e			6		
			bnb	HU		0									
13-B2-J006-se	Economic Assessment Methods									S			x		
13-B2-J007-se	Systems of Infrastructure									S			x		
13-L1-M009	Ingenieurhydrologie III	St		mP	15	1	1	4	f	g			6		
			bnb	H		0									
13-L1-0005-vu	Ingenieurhydrologie III									VU			x		
Research Subject Glass Structures and Facade Technology											12-24				
Basic research modules (Glass Structures & Facade Technology) - range of subjects											12				
13-M4-M002	Facade Technology I	St		mP	15	1	1	4	o	e			6	6	
			bnb	H		0									
13-M4-0002-vu	Facade Technology I									VU		x			
13-M4-M003	Facade Technology II	St		mP	15	1	1	4	o	e			6	6	
			bnb	H		0									
13-M4-0003-vl	Facade Technology II									VL			x		
13-M4-0004-ue	Facade Technology II - Exercise									U			x		
Specialisation research modules (Glass Structures & Facade Technology) - range of subjects											0-12				
13-M3-M003	Glass and Polymers I: Glass Structures	St		K	90	1	1	4	o	e				6	
		St		mP	15	1									
13-M3-0002-vu	Glass and Polymers I: Glass Structures									VU			x		
13-M0-M001	Glass and Facade Project	St		mP	15	1	1	4	o	e			6		6
			bnb	H		0									
13-M0-0002-vl	Glass and Facade Project									VL				x	
13-M0-0003-ue	Glass and Facade Project - Exercise									U				x	
Research Subject Real Estate Valuation											12-24				
Basic research modules (Real Estate Valuation) - range of subjects											12				
13-B2-M033	Ausgewählte Kapitel der Bauleitplanung	St		mP	20	1	1	4	o	g			6		
			bnb	A		0									
13-B2-0033-vl	Ausgewählte Kapitel der Bauleitplanung									VL			x		
13-B2-0033-ue	Ausgewählte Kapitel der Bauleitplanung - Übung									U			x		
13-B2-M008	Bodenordnung und Bodenwirtschaft II	St		mP+K	15+120	1	1	4	o	g			6	6	
			bnb	HU		0									
13-B2-0005-vl	Bodenordnung und Bodenwirtschaft II									VL			x		
13-B2-0006-ue	Bodenordnung und Bodenwirtschaft II - Übung									U			x		
Specialisation research modules (Real Estate Valuation) - range of subjects											0-12				
13-B2-M020	Ausgewählte Kapitel der Immobilienwertermittlung	St		mP	15	1	1	4	o	g			6	6	
			bnb	Pt+H		0									
13-B2-0021-vl	Ausgewählte Kapitel der Immobilienwertermittlung									VL			x		
13-B2-M022	Projekt Immobilienmarkt und Immobilienwertermittlung	St		mP	20	1	1	2	o	g			6		
			bnb	B		0									
13-B2-0025-pj	Projekt Immobilienmarkt und Immobilienwertermittlung									PJ				x	
Research Subject Solid Construction											12-24				
Basic research modules (Solid Construction) - range of subjects											12				
13-D2-M015	Masonry Structures and Special Topics of Concrete Construction	St		K	90	1	1	4	o	e			6		
			bnb	HU		0									
13-D2-0012-vl	Masonry Structures and Special Topics of Concrete Construction									VL			x		
13-D2-0013-ue	Masonry Structures and Special Topics of Concrete Construction - Exercise									U			x		
13-D2-M005	Prestressed Concrete Structures	St		K	90	1	1	4	o	e			6	6	
			bnb	HU		0									
13-D2-0018-vl	Prestressed Concrete Structures									VL			x		
13-D2-0019-ue	Prestressed Concrete Structures - Exercise									U			x		
Specialisation research modules (Solid Construction) - range of subjects											0-12				
13-D2-M036	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen	St		mP/K	15/45	1	1	2	f	g			3	3	
13-D2-0036-vl	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen									VL			x		
13-D2-0036-ue	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen - Übung									U			x		
13-D2-M035	Angewandte Baudynamik - Erdbebeningenieurwesen	St		mP/K	15/45	1	1	2	f	g			3	3	
													x		
13-D2-0035-vl	Angewandte Baudynamik - Erdbebeningenieurwesen									VL			x		
13-D2-0035-ue	Angewandte Baudynamik - Erdbebeningenieurwesen - Übung									U			x		
13-M2-M024	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen	St		mP/K	15/45	1	1	2	f	g			3	3	
													x		
13-M2-0024-vl	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen									VL			x		
13-M2-0024-ue	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen - Übung									U			x		
13-D2-M008	Fertigteilkonstruktionen	St		K	90	7	1	4	f	g			6		6
		St		HU		3									
13-D2-0005-vu	Fertigteilkonstruktionen									VU				x	
13-M2-M023	Grundlagen der Baudynamik	St		mP/K	15/45	1	1	2	f	g			3	3	
													x	x	
13-M2-0023-vl	Grundlagen der Baudynamik									VL			x	x	
13-M2-0023-ue	Grundlagen der Baudynamik - Übung									U			x	x	
13-D2-M009	Massivbrückenbau und Traggerüste	St		mP/K	15/90	1	1	4	f	g			6		6
13-D2-0010-vl	Massivbrückenbau und Traggerüste									VL				x	
13-D2-0011-ue	Massivbrückenbau und Traggerüste - Übung									U				x	

Research Subject Numerical Methods and Informatics in Civil Engineering										f			12-24				
Basic research modules (Numerical Methods and Informatics in Civil Engineering) - range of subjects										12							
13-Fo-Mo03	Engineering Informatics I	St		mP/K	45/90	1	1	4	o	e	VL	6	6				
		bnb		HU+Kq		o											
13-Fo-0009-vl	Engineering Informatics I							2			VL		x				
13-Fo-0010-ue	Engineering Informatics I - Exercise							2			U		x				
13-Fo-Mo04	Engineering Informatics II	St		mP/K	45/90	1	1	4	o	e	VL	6		6			
		bnb		HU+Kq		o											
13-Fo-0012-vl	Engineering Informatics II							2			VL						x
13-Fo-0011-ue	Engineering Informatics II - Exercise							2			U						x
Specialization research modules (Numerical Methods and Informatics in Civil Engineering) - range of subjects										f			0-12				
13-Fo-Mo06	Ingenieurgerechte Modellierung und Visualisierung	St		K	90	1	1	4	o	g	VL	6			6		
		bnb		SF		o											x
13-Fo-0015-vl	Ingenieurgerechte Modellierung und Visualisierung							2			VL						x
13-Fo-0016-ue	Ingenieurgerechte Modellierung und Visualisierung - Übung							2			U						x
13-Fo-Mo05	Managementverfahren im Bau- und Umweltwesen	St		K	90	1	1	4	o	g	VL	6		6			
		bnb		SF		o											x
13-Fo-0013-vl	Managementverfahren im Bau- und Umweltwesen							2			VL						x
13-Fo-0014-ue	Managementverfahren im Bau- und Umweltwesen - Übung							2			U						x
TUCaNo	Title of module	TE	SE	Type	Duration	W		SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.	
Research Subject Planning, Design and Operation of Transport Facilities										f			12-24				
Basic research modules (Planning, Design and Operation of Transport Facilities) - range of subjects										12							
13-Jo-Mo03	Air Transport I	St		K	90	1	1	4	f	e	VL	6		6			
		bnb		HU+Kq	20	o											x
13-Jo-0005-vl	Air Transport I							2			VL						x
13-Jo-0006-ue	Air Transport I - Exercise							2			U						x
13-J1-Mo01	Bahnsysteme und Bahntechnik	St		K	90	1	1	4	f	g	VL	6		6			
		bnb		HU+Kq	20	o											x
13-J1-0001-vl	Bahnsysteme und Bahntechnik							2			VL						x
13-J1-0002-ue	Bahnsysteme und Bahntechnik - Übung							2			U						x
13-J3-Mo01	Transport Planning and Traffic Engineering I	St		K	90	1	1	4	f	e	VL	6		6			
		bnb		HU+Kq	20	o											x
13-J3-0005-vl	Transport Planning and Traffic Engineering I							2			VL						x
13-J3-0006-ue	Transport Planning and Traffic Engineering I - Exercise							2			U						x
Specialization research modules (Planning, Design and Operation of Transport Facilities) - range of subjects										f			0-12				
13-Jo-Mo09	Air Transport II	St		mP/K	20/60	1	1	2	f	e	VL	3					3
																	x
13-Jo-0004-vl	Air Transport II							2			VL						x
13-J1-Mo02	Bahnbetrieb: Modellierung, Planung, Disposition I	St		mP/K	20/60	1	1	2	f	g	VL	3					3
																	x
13-J1-0003-vl	Bahnbetrieb: Modellierung, Planung, Disposition I							2			VL						x
13-J1-Mo04	Bahnbetrieb: Sichere Durchführung I	St		mP/K	20/60	1	1	2	f	g	VL	3					3
																	x
13-J1-0004-vl	Bahnbetrieb: Sichere Durchführung I							2			VU						x
13-J3-Mo04	Modellierung der Verkehrsnachfrage und Intelligente Verkehrssysteme	St		mP/K	20/60	1	1	2	f	g	VL	3					3
																	x
13-J3-0002-vl	Modellierung der Verkehrsnachfrage							1			VL						x
13-J3-0010-vl	Intelligente Verkehrssysteme							1			VL						x
13-J3-Mo02	Transport Planning and Traffic Engineering II	St		mP/K	20/60	1	1	2	f	e	VL	3					3
		bnb		HU+Pt		o											x
13-J3-0007-vl	Transport Planning and Traffic Engineering II							1			VL						x
13-J3-0011-ue	Transport Planning and Traffic Engineering II - Exercise							1			U						x
Research Subject Sanitary Engineering										f			12-24				
Basic research modules (Sanitary Engineering) - range of subjects										12							
13-K6-Mo06	Drinking Water	St		mP/K	15/60	1	1	4	o	e	VL	6	6				
		bnb		HU		o											x
13-K6-0006-vl	Drinking Water							2			VL						x
13-K6-0006-ue	Drinking Water - Exercise							2			U						x
13-K2-Mo03	Industrieabwasserreinigung	St		mP	20	1	1	4	f	g	VL	6		6			
		bnb		HU		o											x
13-K2-0005-vl	Industrieabwasserreinigung							4			VU						x
13-K2-Mo02	Kommunale Abwasserbehandlung	St		mP/K	15/90	1	1	4	f	g	VL	6	6				
		bnb		HU		o											x
13-K2-0001-vl	Kommunale Abwasserbehandlung							4			VL						x
13-K0-Mo08	Water Treatment Processes	St		mP/K	15/90	1	1	4	f	e	VL	6	6				
		bnb		HU		o											x
13-K0-0008-vl	Water Treatment Processes							2			VL						x
13-K0-0008-ue	Water Treatment Processes - Exercise							2			U						x
Specialization research modules (Sanitary Engineering) - range of subjects										f			0-12				
13-K8-Mo02	Oxidative Processes in Water Treatment	St		K	15/90	3	1	4	f	e	VL	6			6		
		St		B+Pt		2											x
13-K8-0002-vl	Oxidative Processes in Water Treatment							4			VU						x
13-K2-Mo04	Planung, Bau und Betrieb Abwassertechnischer Anlagen	St		K	60	1	1	4	f	g	VL	6		6			
		St		mP	15	1											x
13-K2-0007-vl	Planung und Bau von Abwassertechnischen Anlagen							2			VL						x
13-K2-0008-vl	Betrieb von Abwasserbehandlungsanlagen							2			VL						x
13-K2-Mo05	Wasserchemisches Grundlagenpraktikum	St		mP/K	15/90	3	1	4	f	g	VL	6		6			
		St		H/B/Pt		1											x
13-K2-0009-se	Wasserchemisches Grundlagenpraktikum							4			S						x
Research Subject Steel Construction										f			12-24				
Basic research modules (Steel Construction) - range of subjects										12							
13-I1-Mo02	Steel Construction III - Detailing and Design of Steel Structures	St		K	120	1	1	4	o	e	VL	6	6				
		bnb		HU		o											x
13-I1-0013-vl	Steel Construction III - Detailing and Design of Steel Structures							3			VL						x
13-I1-0014-ue	Steel Construction III - Detailing and Design of Steel Structures - Exercise							1			U						x
13-I1-Mo03	Steel Construction IV	St		K	120	1	1	4	o	e	VL	6	3	3			
		bnb		H		o											x
13-I1-0015-vl	Ultimate Load Design							1			VL						x
13-I1-0016-vl	Torsion / Lateral Torsional Buckling							2			VL						x
13-I1-0017-se	Ultimate Load Design - Seminar							1			S						x
Specialization research modules (Steel Construction) - range of subjects										f			0-12				
13-I2-Mo01	Betriebsfestigkeit	St		mP	30	1	1	4	f	g	VL	6					6
																	x
13-I2-0001-vl	Betriebsfestigkeit							2			VL						x
13-I2-0002-ue	Betriebsfestigkeit - Übung							2			U						x
13-I2-Mo02	Bruchmechanik	St		mP	30	1	1	4	f	g	VL	6		6			
								3									x
13-I2-0007-vl	Bruchmechanik							1			U						x
13-I2-0008-ue	Bruchmechanik - Übung							1			U						x

13-I1-Mo16	Entwurf von Knoten und Anschlüssen im Stahlbau	St		mP/K	15/90	1	1	4	f	g			6			6		
			bnb	H		o											x	
13-I1-0022-vl	Entwurf von Knoten und Anschlüssen im Stahlbau							2				VL					x	
13-I1-0023-ue	Entwurf von Knoten und Anschlüssen im Stahlbau - Exercise							2				Ü					x	
13-I1-Mo26	Structural timber engineering - mit Holz weit und hoch	St		K	90	1	1	4	f	d			6		6			
13-I1-0026-vl	Structural timber engineering - mit Holz weit und hoch											VL					x	
13-I1-0027-ue	Structural timber engineering - mit Holz weit und hoch - Exercise							2				Ü					x	
13-I1-Mo15	Plattenbeulen	St		mP/K	15/45	1	1	2	f	g			3				3	
			bnb	H		o												
13-I1-0005-vl	Plattenbeulen							2				VL					x	
13-I2-Mo03	Schweißen und Schweißsimulation	St		R	30	1	1	4	f	g			6				6	
13-I2-0010-se	Schweißen und Schweißsimulation							4				S					x	
13-I1-Mo10	Stahlbrückenbau	St		mP/K	15/45	1	1	2	f	g			3				3	
			bnb	H		o												
13-I1-0012-vl	Stahlbrückenbau							2				VL					x	
TUCaN-No	Title of module	TE	SE	Type	Duration	W		SW	St	L	C		CP	W 1.	S 2.	W 3.	S 4.	
Research Subject Structural Analysis													f			12-24		
Basic research modules (Structural Analysis) - range of subjects													12					
13-M2-Mo03	Structural Analysis III	St		K	90	1	1	4	o	e			6	6				
			bnb	HU+SF		o												
13-M2-0005-vl	Structural Analysis III							2				VL					x	
13-M2-0006-ue	Structural Analysis III - Exercise							2				Ü					x	
13-M2-Mo04	Structural Analysis IV	St		K	90	1	1	6	o	e			6		6			
			bnb	HU+SF		o												
13-M2-0007-vl	Structural Analysis IV							4				VL					x	
13-M2-0016-ue	Structural Analysis IV - Exercise							2				Ü					x	
Specialization research modules (Structural Analysis) - range of subjects													0-12					
13-D2-Mo36	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen	St		mP/K	15/45	1	1	2	f	g			3		3			
13-D2-0036-vl	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen							1				VL					x	
13-D2-0036-ue	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen - Übung							1				Ü					x	
13-D2-Mo35	Angewandte Baudynamik - Erdbebeningenieurwesen	St		mP/K	15/45	1	1	2	f	g			3	3				
13-D2-0035-vl	Angewandte Baudynamik - Erdbebeningenieurwesen							1				VL					x	
13-D2-0035-ue	Angewandte Baudynamik - Erdbebeningenieurwesen - Übung							1				Ü					x	
13-M2-Mo24	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen	St		mP/K	15/45	1	1	2	f	g			3		3			
13-M2-0024-vl	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen							1				VL					x	
13-M2-0024-ue	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen - Übung							1				Ü					x	
13-M2-Mo22	Artificial Intelligence for Building Industry	St		mP	15	1	1	4	f	e			6			6		
			St	H		1												
13-M2-0022-vl	Artificial Intelligence for Building Industry							2				VL					x	
13-M2-0022-ue	Artificial Intelligence for Building Industry - Exercise							2				Ü					x	
13-M2-Mo07	Cable and Membrane Structures	St		mP+K	15+90	1	1	4	f	e			6			6		
13-M2-0012-vl	Cable and Membrane Structures							2				VL					x	
13-M2-0013-ue	Cable and Membrane Structures - Exercise							2				Ü					x	
13-M2-Mo08	Einwirkungen auf Tragwerke und Tragwerkszuverlässigkeit	St		mP	15	1	1	4	f	g			6				6	
			bnb	H		o												
13-M2-0014-vl	Einwirkungen auf Tragwerke und Tragwerkszuverlässigkeit							2				VL					x	
13-M2-0015-ue	Einwirkungen auf Tragwerke und Tragwerkszuverlässigkeit - Exercise							2				Ü					x	
13-E1-Mo01	Finite-Element-Methoden I	St		mP	30	1	1	4	f	g			6		6			
13-E1-0003-vl	Finite-Element-Methoden I							2				VL					x	
13-E1-0004-ue	Finite-Element-Methoden I - Übung							2				Ü					x	
13-E1-Mo02	Finite-Element-Methoden II	St		mP	30	1	1	4	f	g			6			6		
13-E1-0005-vl	Finite-Element-Methoden II							2				VL					x	
13-E1-0006-ue	Finite-Element-Methoden II - Übung							2				Ü					x	
13-M2-Mo23	Grundlagen der Baudynamik	St		mP/K	15/45	1	1	2	f	g			3	3				
13-M2-0023-vl	Grundlagen der Baudynamik							1				VL					x	
13-M2-0023-ue	Grundlagen der Baudynamik - Übung							1				Ü					x	
Research Subject Structural (Health) Monitoring and Dynamics													f			12-24		
Basic research modules (Structural (Health) Monitoring and dynamics) - range of subjects													12					
13-B1-Mo37	Sensortechnik und Analyse	St		mP	15	1	1	4	o	g			6	6				
			bnb	SF		o												
13-B1-0037-vl	Sensortechnik und Analyse							1				VL					x	
13-B1-0037-ue	Sensortechnik und Analyse - Übung							3				Ü					x	
13-B1-Mo55	Structural Monitoring I	St		mP/K	15/90	1	1	4	o	e			6		6			
			bnb	SF		o												
13-B1-0055-vl	Structural Monitoring I							2				VL					x	
13-B1-0055-ue	Structural Monitoring I - Exercise							2				Ü					x	
Specialization research modules (Structural (Health) Monitoring and dynamics) - range of subjects													0-12					
13-D2-Mo36	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen	St		mP/K	15/45	1	1	2	f	g			3		3			
13-D2-0036-vl	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen							1				VL					x	
13-D2-0036-ue	Angewandte Baudynamik - Brückendynamik und Verkehrsinduzierte Schwingungen - Übung							1				Ü					x	
13-D2-Mo35	Angewandte Baudynamik - Erdbebeningenieurwesen	St		mP/K	15/45	1	1	2	f	g			3	3				
13-D2-0035-vl	Angewandte Baudynamik - Erdbebeningenieurwesen							1				VL					x	
13-D2-0035-ue	Angewandte Baudynamik - Erdbebeningenieurwesen - Übung							1				Ü					x	
13-M2-Mo24	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen	St		mP/K	15/45	1	1	2	f	g			3		3			
13-M2-0024-vl	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen							1				VL					x	
13-M2-0024-ue	Angewandte Baudynamik - Vibrationen und Aerodynamische Anregungen - Übung							1				Ü					x	
13-M2-Mo23	Grundlagen der Baudynamik	St		mP/K	15/45	1	1	2	f	g			3	3				
13-M2-0023-vl	Grundlagen der Baudynamik							1				VL					x	
13-M2-0023-ue	Grundlagen der Baudynamik - Übung							1				Ü					x	
13-02-Mo07	Project Geodetic Metrology	St		mP	15	1	1	4	f	e			6			6		
			bnb	SF		o												
13-02-0013-pj	Project Geodetic Metrology							4				PJ					x	
13-B1-Mo15	Structural Monitoring II	St		mP/K	15/90	1	1	4	f	e			6			6		
			bnb	SF		o												

13-AO-M006	Bauen im Bestand – Verfahrenstechnik und Ökonomie	St		K	60	1	1	4	f	g		6		6		
			bnb	HU		0					VL			x		
13-AO-0014-vl	Bauen im Bestand – Verfahrenstechnik und Ökonomie	TE	SE	Type	Duration	W	SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.	
TUCaN-No	Title of module															
13-J2-M026	BIM for Transportation Infrastructure	St		mP/K	20/90	1	1	4	f	e		6	6			
			bnb	K		0							x			
13-J2-0026-vl	BIM for Transportation Infrastructure							2			VL					
13-J2-0026-ue	BIM for Transportation Infrastructure - Exercise							2			Ü		x			
13-K2-M007	Biologische Abwasserreinigung	St		mP	15	1	1	4	f	g		6			6	
			bnb	HU+H		0										
13-K2-0011-se	Biologische Abwasserreinigung							4			S				x	
13-K1-M015	Chemie III für Ingenieur*innen	St		K	90	5	1	4	f	g		6	6			
			St	H		3										
			St	A		2										
13-K1-0018-vl	Chemie III - Umweltchemie und Dateninterpretation							2			VL			x		
13-K1-0020-pj	Praktikum Chemie III							2			PR			x		
13-L1-M017	Climate Change and Water Extremes	St		H		1	1	4	f	e		6			6	
13-L1-0017-vu	Climate Change and Water Extremes							4			VU				x	
13-D3-M020	Computational Methods for Building Physics and Construction Materials	St		K	90	1	1	4	f	e		6	6			
			bnb	H		0										
13-D3-0022-vl	Computational Methods for Building Physics and Construction Materials							2			VL			x		
13-D3-0023-ue	Computational Methods for Building Physics and Construction Materials - Exercise							2			Ü			x		
13-Co-M010	Deiche, Dämme, Deponien	St		mP/K	15/60	1	1	2	f	g		3			3	
			bnb	HU		0										
13-Co-0003-vl	Deiche, Dämme, Deponien							1			VL				x	
13-Co-0004-ue	Deiche, Dämme, Deponien - Übung							1			U				x	
13-J1-M010	Design of Safety Critical Systems in Railway Engineering	St		mP	20	1	1	2	f	e		3	3			
13-J1-0010-vl	Design of Safety Critical Systems in Railway Engineering							2			VL			x		
13-E2-M018	Einführung in die Spezielle Relativitätstheorie	St		m/s	15/60	1	1	2	f	g		3			3	
13-E2-0018-vl	Einführung in die Spezielle Relativitätstheorie							2			VL			x		
13-K3-M016	Energy Efficiency	St		m/s	15/60	1	1	2	f	e		3	3			
13-K3-0016-vl	Energy Efficiency							2			VL			x		
13-K3-M008	Environmental Sciences	St		K	90	1	1	4	f	e		6	6			
			bnb	HU		0										
13-K3-0004-vl	Environmental Sciences							2			VL			x		
13-K3-0005-ue	Environmental Sciences - Exercise							2			U			x		
13-B2-M025	Exkursion "Entwicklung Ländlicher Räume"	St		mP	15	1	1	2	f	g		3			3	
			bnb	B		0										
13-B2-0028-ex	Exkursion "Entwicklung Ländlicher Räume"							2			EX				x	
13-I2-M006	Experimentelle Methoden der Mechanik	St		mP/K	20/90	1	1	2	f	g		6	6			
13-I2-0014-tt	Experimentelle Methoden der Mechanik							1			TT			x		
13-I2-0015-ue	Experimentelle Methoden der Mechanik - Übung							1			U			x		
13-E1-M018	Finite Elements III: Stabilized Methods for Computational Fluid Dynamics	St		mP	15	30	1	4	f	e		6	6			
			bnb	H		70										
13-E1-0018-vu	Finite Elements III							4			VU			x		
13-D1-M006	Freihandzeichnen	St		SF		1	1	4	f	g		6	6			
			bnb	A		0										
13-D1-0003-vl	Freihandzeichnen							1			VL			x		
13-D1-0004-ue	Freihandzeichnen - Übung							3			U			x		
13-J3-M012	Future of Mobility	St		B		1	1	4	f	e		6	6			
13-J3-0012-se	scAInce Lab Seminar							4			SE			x		
13-B1-M054	Gebäudeinformationssysteme	St		mP/K	15/90	1	1	4	f	g		6	6			
			bnb	SF		0										
13-B1-0054-vl	Gebäudeinformationssysteme							2			VL			x		
13-B1-0054-ue	Gebäudeinformationssysteme- Übung							2			U			x		
13-B1-M020	Geodatenbanken II	St		mP/K	15/90	1	1	4	f	g		6			6	
			bnb	SF		0										
13-B1-0046-vl	Geodatenbanken II							2			VL			x		
13-B1-0047-ue	Geodatenbanken II - Übung							2			U			x		
13-B1-M056	Geoinformationsrecht I	St		mP	15	1	1	2	f	g		3	3			
13-B1-0056-se	Geoinformationsrecht I							2			S			x		
13-B1-M057	Geoinformationsrecht II	St		mP	15	1	1	2	f	g		3			3	
13-B1-0057-se	Geoinformationsrecht II							2			S			x		
13-B2-M009	Geoinformationssysteme II	St		mP/K	15/90	1	1	4	f	e		6	6			
			bnb	HU		0										
13-B0-0003-vl	Geoinformationssysteme II							2			VL			x		
13-B0-0004-ue	Geoinformationssysteme II - Übung							2			U			x		
13-B0-M006	Geostatistics and Spatial Data Science	St		mP/K	15/90	1	1	4	f	g		6			6	
			bnb	SF		0										
13-B0-0006-vl	Geostatistics							2			VL				x	
13-B0-0006-ue	Geostatistics in Practice - Exercise							2			U				x	
13-Co-M014	Geotechnik im Hochhausbau	St		mP/K	20/90	1	1	4	f	g		6			6	
			bnb	HU		0										
13-Co-0013-vl	Geotechnik im Hochhausbau							2			VL				x	
13-Co-0014-ue	Geotechnik im Hochhausbau - Übung							2			U				x	
13-Co-M008	Geotechnische Messverfahren	St		mP/K	15/60	1	1	2	f	g		3	3			
			bnb	HU		0										
13-Co-0021-vl	Geotechnische Messverfahren							1			VL			x		
13-Co-0022-ue	Geotechnische Messverfahren - Übung							1			U			x		
13-L2-M009	Gewässerdynamik	St		mP	30	1	1	2	f	g		3			3	
13-L2-0003-vl	Gewässerdynamik							2			VL			x		
13-D1-M022	Green Building Design Project	St		A+B		1	1	4	f	g		6			6	
			bnb	Pt		0										
13-D1-0022-pj	Green Building Design Project							1			PJ				x	
13-D1-0022-ue	Green Building Design Project Exercise							3			U				x	
13-D2-M037	Hochhauskonstruktionen – Bauweise und Tragsysteme	St		K	90	7	1	3	f	g		6	6			
			St	HU		3										
13-D2-0037-vu	Hochhauskonstruktionen – Bauweise und Tragsysteme							4			VU			x		

TUCaNo	Title of module	TE	SE	Type	Duration	W	SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.
13-Fo-Mo11	Hochleistungssimulationen im Ingenieurwesen	St		mP/K	45/90	1	1	4	f	g	X	6			6
			bnb	HU		0	X								
13-Fo-0007-vl	Hochleistungssimulationen im Ingenieurwesen						X	2		VL					x
13-Fo-0008-ue	Hochleistungssimulationen im Ingenieurwesen - Übung						X	2		U					x
13-I1-Mo17	Holzbau I	St		K	90	1	1	2	f	g	X	3			3
13-I1-0024-vu	Holzbau I						X	2		VU					x
13-I1-Mo12	Holzbau II	St		mP	15	1	1	2	f	g	X	3		3	
			St	H+R	15	1	X								
13-I1-0019-vl	Holzbau II						X	2		VL					x
13-L1-Mo05	Hydrometrie	St		mP	15	1	1	2	f	g	X	3			3
			bnb	H		0	X								
13-L1-0012-vu	Hydrometrie						X	2		VU					x
13-K6-Mo04	Ingenieurpraktikum Wassertechnologie	St		mP	15	3	1	4	f	g/e	X	6			6
			St	B+Pt		2	X								
13-K6-0004-se	Ingenieurpraktikum Wassertechnologie						X	4		S					x
13-J2-Mo10	Innovativer Verkehrswegebau	St		mP	20	1	1	1	f	g	X	3			3
13-J2-0014-vl	Innovativer Verkehrswegebau						X	1		VL					x
13-L1-Mo07	Integrated Water Management	St		mP	15	1	1	4	f	e	X	6			6
			bnb	H		0	X								
13-L1-0006-vu	Integrated Water Management						X	4		VU					x
13-D1-Mo10	Konstruktives Gestalten Projekt	St		A+B		1	1	4	f	g	X	6		6	
13-D1-0020-pj	Konstruktives Gestalten Projekt - Projekt						X	1		PJ					x
13-D1-0021-ue	Konstruktives Gestalten Projekt - Übung						X	3		U					x
13-L2-Mo16	Laborpraktikum im Wasserbaulichen Forschungslabor	St		mP	30	1	1	4	f	g	X	6			6
			bnb	B		0	X								
13-L2-0018-se	Laborpraktikum im Wasserbaulichen Forschungslabor						X	1		S					x
13-L2-0019-ue	Laborpraktikum im Wasserbaulichen Forschungslabor - Übung						X	3		U					x
13-D3-Mo24	Life Cycle Assessment (LCA) of Materials and Structures	St		K		1	1	2	f	e	X	6			6
13-D3-0024-vl	Life Cycle Assessment Materials and Structures						X	1		VL					x
13-D3-0024-ue	Life Cycle Assessment Materials and Structures - Exercise						X	1		U					x
13-E2-Mo08	Mechanics of Glaciers and Ice Sheets	St		mP	20	1	1	4	f	e	X	6			6
13-E2-0014-vl	Mechanics of Glaciers and Ice Sheets						X	3		VL					x
13-E2-0015-ue	Mechanics of Glaciers and Ice Sheets - Exercise						X	1		U					x
13-B1-Mo53	Messungen zur Tragwerksanalyse	St		mP	15	1	1	2	f	g	X	3		3	
			bnb	SF		0	X								
13-B1-0053-vl	Messungen zur Tragwerksanalyse						X	1		VL					x
13-B1-0053-ue	Messungen zur Tragwerksanalyse - Übung						X	1		U					x
13-B2-Jo02	Methodology of Empirical Analysis	St		H		1	1	4	f	e	X	6	6		
			bnb	Pt		0	X								
13-B2-Jo02-se	Methodology of Empirical Analysis						X	4		S		x			
13-L1-Mo16	Methoden der Räumlichen Analyse in der Hydrologie	St		mP	15	1	1	2	f	g	X	3			3
			bnb	H		0	X								
13-L1-0016-vu	Methoden der Räumlichen Analyse in der Hydrologie						X	2		VU					x
13-D2-Mo39	Nachhaltiges Bauen im Bestand - Instandsetzung von Massivbauten	St		mP/K	15/90	1	1	4	f	d	X	6			6
13-D2-0039-vu	Nachhaltiges Bauen im Bestand - Instandsetzung von Massivbauten						X	4		VU					x
13-K5-Mo07/6	Nachhaltige Wasserversorgungswirtschaft	St		mP/K	15/90	1	1	4	f	g	X	6			6
			St	H		1	X								
13-K5-0016-vl	Nachhaltige Wasserversorgungswirtschaft						X	2		VL					x
13-K5-0015-se	Nachhaltige Wasserversorgungswirtschaft - Seminar						X	2		S					x
13-A0-Mo20	Nachtragsmanagement	St		mP	15	1	1	4	f	g	X	6	6		
13-A0-0020-vu	Nachtragsmanagement						X	4		VU		x			
13-J1-Mo03	Nahverkehrsbahnen	St		mP	20	1	1	2	f	g	X	3			3
13-J1-0005-vl	Nahverkehrsbahnen						X	2		VL					x
13-K0-Mo04	Neues aus den Umweltingenieurwissenschaften	St		mP	15	3	1	2	f	g	X	3		3	
			St	B		1	X								
13-K0-0006-se	Neues aus den Umweltingenieurwissenschaften						X	2		S					x
13-Co-Mo41	Numerical Simulations in Geotechnical Engineering	St		mP	30	1	1	2	f	e	X	3			3
			bnb	HU		0	X								
13-H0-0007-vl	Numerical Simulations in Geotechnical Engineering						X	1		VL					x
13-H0-0008-ue	Numerical Simulations in Geotechnical Engineering - Exercise						X	1		U					x
13-H0-Mo02	Parameterschätzung II	St		K	90	1	1	4	f	g	X	6	6		
			bnb	HU		0	X								
13-H0-0007-vl	Parameterschätzung II						X	3		VL		x			
13-H0-0008-ue	Parameterschätzung II - Übung						X	1		U		x			
13-H0-Mo10	Parameterschätzung III	St		mP	20	1	1	2	f	g	X	3			3
			bnb	HU		0	X								
13-H0-0022-vl	Parameterschätzung III						X	1		VL					x
13-H0-0023-ue	Parameterschätzung III - Übung						X	1		U					x
13-02-Mo15	Projekt Gebäudeinformationssystem und Building Information Modeling	St		Kq	15	1	1	2	f	g	X	3			3
			bnb	H		0	X								
13-02-0012-pj	Projekt Gebäudeinformationssystem und Building Information Modeling						X	2		PJ					x
13-B2-Mo35	Projekt Infrastruktur	St		mP	20	1	1	2	f	g	X	6			6
			bnb	B		0	X								
13-B2-0035-se	Projekt Infrastruktur						X	2		S					x
13-B2-Mo12	Projekt Landmanagement und Geoinformation	St		mP	20	1	1	2	f	g	X	6			6
			bnb	B		0	X								
13-B2-0023-se	Projekt Landmanagement und Geoinformation						X	2		S					x
13-Go-Mo13	Remote Sensing II	St		mP/K	15/60	1	1	4	f	e	X	6			6
			bnb	B		0	X								
13-Go-0001-vl	Remote Sensing II						X	2		VL					x
13-Go-0002-ue	Remote Sensing II - Exercise						X	2		U					x
13-K2-Mo09	Reststoffe aus Abwasseranlagen - Behandlung und Ressourcenrückgewinnung	St		mP	20	1	1	4	f	g	X	6			6
			bnb	H+Pt		0	X								
13-K2-0015-se	Reststoffe aus Abwasseranlagen - Behandlung und Ressourcenrückgewinnung						X	4		S					x

TUCaN-No	Title of module	TE	SE	Type	Duration	W	SW	St	L	C	CP	W 1.	S 2.	W 3.	S 4.	
13-H0-M044	Satellite Geodesy	St		K	60	1	1	2	f	e			3			
			bnb	HU		0										
13-H0-0044-vl	Satellite Geodesy							1		VL			x			
13-H0-0044-ue	Satellite Geodesy - Exercise							1		U			x			
13-J3-M015	Small and Big Data in der Verkehrstechnik	St		B		1	1	4	f	e		6			6	
13-J3-0015-se	Small and Big Data in der Verkehrstechnik							4		SE					x	
13-Co-M015	Spezialfragen des Grundbaus	St		mP/K	15/60	1	1	2	f	g		3		3		
			bnb	HU		0										
13-Co-0029-vl	Spezialfragen des Grundbaus							1		VL			x			
13-Co-0030-ue	Spezialfragen des Grundbaus - Übung							1		U			x			
13-D2-M038	Stahlbetonbau III	St		K	90	7	1	4	f	g		6		6		
			bnb	HU		3										
13-D2-0038-vl	Stahlbetonbau III							4		VU			x			
13-K3-J021	Sustainable Waste Management and Life Cycle Assessment Application	St		K	90	1	1	4	f	e		6		6		
			bnb	Pt		0										
13-K3-0021-vl	Sustainable Waste Management and LCA Application							2		VL			x			
13-K3-0021-ue	Sustainable Waste Management and LCA Application - Exercise							2		U			x			
13-J3-M013	The Art and Science of Transportation Research in the AI Era	St		B		1	1	4	f	e		6			6	
13-J3-0013-se	The Art and Science of Transportation Research in the AI Era							4		VL					x	
13-K5-M002	Trinkwassergüte und Wasseraufbereitungstechnik	St		mP+K	15+60	1	1	4	f	g		6	6			
			bnb	H		0										
13-K5-0006-vl	Trinkwassergüte und Wasseraufbereitungstechnik I							2		VL			x			
13-K5-0007-vl	Trinkwassergüte und Wasseraufbereitungstechnik II							2		VL			x			
13-Co-M006	Umweltgeotechnik	St		mP/K	20/90	1	1	4	f	g		6			6	
			bnb	HU		0										
13-Co-0033-vl	Umweltgeotechnik							2		VL					x	
13-Co-0034-ue	Umweltgeotechnik - Übung							2		U					x	
13-J3-M016	UNITE! Sustainable Mobility Forum	St		B		1	1	4	f	e		6		6		
13-J3-0016-se	UNITE! Sustainable Mobility Forum							4		SE			x			
13-J3-M017	UNITE! Sustainable Mobility Forum - Methods	St		B		1	1	4	f	e		6			6	
13-J3-0017-se	UNITE! Sustainable Mobility Forum - Methods							4		SE					x	
13-Co-M007	Unterirdisches Bauen	St		mP/K	15/60	1	1	2	f	g		3		3		
			bnb	HU		0										
13-Co-0005-vl	Unterirdisches Bauen							1		VL			x			
13-Co-0006-ue	Unterirdisches Bauen - Übung							1		U			x			
13-A0-M011	Vergaberecht / Privates Baurecht	St		K	45	1	1	2	f	g		3		3		
13-A0-0019-vl	Vergaberecht / Privates Baurecht							2		VL			x			
13-02-M014	Wasserbauliche und Geodätische Exkursion	St		H		1	1	2	f	g		3		3		
13-02-0010-ek	Wasserbauliche und Geodätische Exkursion							2		EX			x			
13-K5-M006/6	Wassertechnik und Wassermanagement für Aride Zonen	St		mP/K	15/90	1	1	4	f	g		6			6	
			St	H		1										
13-K5-0014-vl	Wassertechnik und Wassermanagement für Aride Zonen							2		VL					x	
13-K5-0021-se	Wassertechnik und Wassermanagement für Aride Zonen - Seminar							2		S					x	
	und weitere Module (Katalog)															
IV. Interdisciplinary Elective Area (Choice of Modules According to § 30 (6) APB)																
Range of all TU Darmstadt Modules (Except Department 13 Modules)																6
MASTER THESIS (24 CP)																24
13-00-MTBI	Master-Thesis Bauingenieurwesen - Civil Engineering	St		Th		1	1			g/e					24	
			bnb	Pt		0										
						Summe	59				120	30	30	30	24	

Note: * No offer in the summer term 2025
as for 16.02.2026