Appendix 3 Module Catalogue B.A. in Architecture (BAR)

Please note: The German version of this document is the legally binding version. The English translation provided here is for information purposes only.

Overview of the modules

Occupational Safety

AVA - Tendering, Awarding, Billing

Bachelor Thesis

Building Construction I

Building Construction II

Building Culture and Gender

Building Physics I*

Building Materials Science

Business Administration

Architectural Visualisation

Desktop Publishing*

Introduction to the History of Architecture

Design I

Design II

Introduction for First-Semester Students

First-Semester Maths Fitness

Technical English

English Presentations

Conceptual Design

Freehand Drawing

Architecture and Design*

History of Architecture

Fundamentals of Building Construction*

Introduction to the Professional Field / Fundamentals of Design I*

Fundamentals of Design II, Part 1*

Fundamentals of Design II, Part 2 CAD*

Principles of Architectural Design I

Principles of Architectural Design II

Fundamentals of Technical Building Equipment

Interior Design*

International Project

Cost Estimation

Planning Management

Presentation and Visualisation*

Project Phase*

Law

Urban Design

Ad-Hoc Design

Structural Engineering I

Structural Engineering II

Land Surveying

Second Foreign Language - Spanish I*

Second Foreign Language - Spanish II*

Second Foreign Language - Russian

^{*}Translations of these module descriptions are currently not available.

Occu	ıpational Safet	ty							Abbr.
No.	Workload	Credit Points	Study semester	Frequen	су	Sem.	Duratio n	Typ e	Q level
	150 h	5	5th sem.	Annual		Winter	1 sem.	Compulsory elective	B.A.
1	Course		Contact hours	Self-		Forms of te			Languag e
	type			study		(forms of le	earning)	group size	
	Lecture		4 SCH/60 h	90 h		Lecture		120	German
2	Learning out	comes /	competenc	es					
	the le - apply SIGEK	re able to nise and s gal regula OSH exp (O).): solve safety-r	related prob	ler ork	ns on constru	uction sites	s by applying	ch as
3	Contents								
	- Respo - Contro - Handl - Safety - Occup	onsibility a ol system ing of wo y and perso oational ho	system and I and liability of Occupationa rk equipment sonal protecti ealth and safe I health and s	f the projec I health and ive equipme ety in the E	t pad sa ent U f	articipants afety manage (PPE) when ramework ar	ement syst carrying o nd RAB reg	em (AMS) Co ut work	
4	Participation	reguire	ments						
	Formally, nor equipment ar	ne; in terr	ms of content	t, basic kno of construc	wle tio	edge of the u n procedures	se of const s is assume	truction ed.	
5	Form of asse Written exam								
6	Condition for Module exam			t points					
7	Application of Project Mana Engineering	igement ((B.Eng.); Ci				Infrastructur	е
8	Module coord Prof. DrIng	dinator		•					
9	place at Biele present at th	s run by t efeld Univ ee training fer as an	he employers rersity of App g site. Lecture elective for the reasons.	lied Science ers Oliver H	es. ans	Students are slik and Pete	e required r Wentland	to be physica I. This modul	lly e is an

AVA –	- Tendering, <i>I</i>	Awarding	g, Billing					Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	150 h	5	5th sem.	Annual	Winter	1 sem.	Compulsory	B.A.
	Course type Lecture		Contact hours 2 SCH/30 h	study	Forms of te		Planned group size	Language German
	Exercise		2 SCH / 3 0	h 45 h	Supervised work and p	•	20	German
2	Learning outcomes / competences On successful completion of the module, students have the following knowledge and skills: They are able to - independently draw up a performance specification with bill of quantities for construction work. - explain the procurement process of a public and a private contracting authority for construction services. - independently prepare a standardised measurement for construction work and check a corresponding invoice.							
3	- Requir - Prepar - Procur servic - Quant	rements f ration of s rement pr es ity deterr	or specifications occess of a pu	phases 6 to 8 a ons according with bill of qu ublic and priva invoice verific gy	to VOB/A uantities for o ate contractir	construction ng authority	for construc	ction
4	Participation None	n require	ments					
5	Form of asse Combination		ion (term pap	per and writte	n examinatio	on)		
6	Condition for Module exam			t points				
7	Application of Architecture		odule (in the	following stud	dy programm	nes):		
8	Module coor Prof. DrIng		ister					
9	Other inform The course is		y a lecturer					

Bach	elor Thesis							Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	360 h	12	6th sem.	Annual	Summer	1 sem.	Compulsory	B.A.
1	Course		Contact hours	Self-	Forms of te	aching	Planned	Language
	type			study	(forms of le	earning)	group size	
				360 h			Group or individual work	German
2	Learning out	tcomes /	' competend	es				
	By successfully completing the bachelor thesis, students are able to define, analyse an process an architectural design/project in terms of content, develop it into a holistic co and present it using text and architectural means such as plan drawings, 3D visualisati and architectural and urban development models. Through the oral presentation of the bachelor thesis, the students prove whether they been enabled by their previous studies to communicate their design work in the techni language of architecture and to argue and represent it to experts.							concept ations y have
4	Participation Successful co	-		e of the modu	le examinatio	ons and adi	mission to th	e bachelor
5	Form of asse Bachelor exa							
6	Condition for Successful su examination			t points ation of the ba	achelor thesis	s, passing t	he bachelor	
7	Application of Architecture		odule (in the	following stud	dy programm	nes):		
8		ng. Gesch DiplIng.		st, Prof. Dipl. I hr, Prof. Dipl.				
9	Other inform	nation						
	grant gradua present build Architects – reg	tes of the ing docur gistration a little 'arch	BAR study p nents ('Bauvo s an architect i itect' is not ach	thesis and pa rogramme in orlagenberech n the list of the 0 nieved through thers of study.	architecture a tigung'). (The Chambers of A	a German a e eligibility fo rchitects – a	authorisation r the Chamber s well as the ri	to of

Build	ling Construct	ion I							Abbr.
No.	Workload	Credit points	Study semester	F	requency	Sem.	Duratio n	Туре	Q level
	270 h	9	3rd + 4th sem.		Annual	Winter + summer	2 sem.	Compulsory	B.A.
1	Course		Contact Self- Forms of teaching planned hours			planned	Language		
	type					(forms of le	earning)	Group size	
	Lecture		2x2 SCH/60 h 30 h		30 h	Lecture		60	German
	Practical / Se	minar	4 SCH/60 h	4 SCH/60 h 120 h Group work, seminar 15				15	German
	After successfully participating in the module, students have the following knowledge and skills: - Recognise, distinguish and apply different construction methods and material-appropriate constructions for the planning of building projects Development of structural and load-bearing concepts for building designs for the implementation of specific design concepts and design intentions - Distinguish and assess building components and elements in terms of sound, heat, fire and moisture protection - Designing and planning components until they are ready for production, taking the design further and presenting basic solutions for realisation - Drafting and presenting constructive solutions for building design according to the standard of implementation and detail planning - Developing and applying social skills for teamwork								
3	concept; - Further dev	(timber, soropriate oncepts; velopes alecological elopment	steel, reinford constructions and façade str and design a	ced s, j uct spo tior	concrete si oining techi cures, taking ects, reflect n of drafts f	keleton consiniques, conniques, conniques de constructions	truction); ections, joi nt construc ilding task on solution	nts tion-related, and design	
4	Participation Formally, nor "Fundamenta	require ne; in teri	ments ns of conten	t, t	he subject l	knowledge co		the last detai	<u>1)</u>
5	Form of asse Project work	essment							
6	Condition for Passing the n constructive	nodule ex	amination (S	Suc	cessful subr		sentation o	of the	
7	Application of Architecture		odule (in the	fo	llowing stud	dy programm	nes):		
8	Module supe Professor Dip	rvisor	ter Sassenro	th					
9	Other inform	nation							

Buildi	ing Construct	ion II						Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	180 h	6	5th sem.	Annual	Winter	1 sem.	Compulsory	B.A.
1	Course		Contact hours	Self-	Forms of te	eaching	Planned	Language
	type			study	(forms of le	earning)	group size	
	Practical / Se	minar	4 SCH/60 h	120 h	Group work seminar		15	German
2	 Learning outcomes / competences After successfully participating in the module, students have the following knowledge and skills: Recognise, distinguish and apply different construction methods and material-appropriate constructions for the planning of complex building projects. Development of structural and load-bearing concepts for building designs for the implementation of specific design concepts and design intentions Distinguish and assess building components and elements in terms of sound, heat, fire and moisture protection Designing and planning components until they are ready for production, taking the design further and presenting basic solutions for realisation Drafting and presenting constructive solutions for building design according to the standard of implementation and detail planning Developing and applying social skills for teamwork 							- the
3	- Struct - Buildir relate and de - Façad conce - Furthe sense detail)	ial-appropural conc ng envelod, econon esign cone technolopts; er develop of impler	priate construents; pes and faça nic, ecologica cept; ogy with spec	uctions, joining de structures al and design cial considera aboration of detailed pla	g techniques , taking into a aspects, refle tion of sun pr drafts for cons nning. (Desig	connection account contected in the cotection are struction so	ns, joints, estruction- estruction- estruction task nd ventilation olutions in the to the last	k I
4	Participation Formally, nor "Fundamenta	require ne; in terr	ments ns of conten	t, the subject		ontained in	the modules	5
5	Form of asse Project work		-		-			
6	Passing the n	nodule ex	amination (S	Successful sub		esentation o	of the	
7	Application of Architecture		odule (in the	following stu	dy programn	nes):		
8	Module supe Professor Dip		ter Sassenro	th				
9	Other inform	ation						

Build	ling Culture ar	nd Gende	er					Abbr.	
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level	
	150 h	5	6th sem.	Annual	Summer	1 sem.	Compulsory elective	B.A.	
1	Course		Contact Self- hours		Forms of te	Forms of teaching Planned		Language	
	type Lecture		1 SCH / 15 h	study 22.5 h	Lecture	earning)	group size 20	German	
	Exercise		2 SCH / 30	h 45h	Group work		20	German	
	Practical / Se	minar	1 SCH / 15	h 22.5 h	Individual work		15	German	
	After successfully participating in the module, students have the following knowledge and skills: They are able to - work scientifically. - analyse, differentiate and assess specialist topics in the field of building culture. - derive and apply gender and diversity-related aspects in their own professional practice. - apply presentation and moderation techniques as well as social skills.								
3	architectu - Incorpora project co - Analysis a and socio	ure and content and extended the content. Solution and evalue and evalue and application and	onstruction. r mainstream ation of select development ation to indiv	ender-specific sing and diver sted special to of guiding ide ridual projects	sity manager pics and issu eas on the to	ment into p es, reflecti pic of "buil	oroject proces ng the currer ding culture	sses and nt social and	
4	Participation None	require	ments						
5	Form of asse Project work	essment							
6	Condition for Module exam			points					
7	Application of Architecture by arrangem	(B.A.);	·	following stud	J . U		helor thesis		
8	Module supe Prof. DiplIn		a Mons						
9	Other inform								

Appendix 3 to the SPO – Module catalogue for Architecture (B.A.)
Bielefeld University of Applied Sciences – Faculty of Minden Campus

Build	ling Materials	Science						Abbr.	
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level	
	240 h	8	1st + 2nd sem.	Annual	Winter + summer	2 sem.	Compulsory	B.A.	
1	Course		Contact Self- hours		Forms of teaching		Planned	Language	
	type			study	(forms of learning)		group size		
	Lecture		2 SCH/30 h	45 h	Lecture		120	German	
	Sem. lessons Laboratory practical course		2 SCH/30 h	45 h	Seminar +		< 35	German	
			2 SCH/30 h	30 h + 30 h	Exercise Presentation		< 12	German	
2	Learning out		+ group wo	rk					
	determine an significant ind common buil describe tech evaluate and necessary se	define objectives in the development of construction solutions in everyday working life; determine and apply short building material designations and design values; explain significant incompatibilities and formulate the possible uses; carry out and compare common building material tests and possible quick tests; describe technical problems and present technical approaches to solutions; argue as well as evaluate and draw conclusions for a binding use of building materials in each case; derive a necessary self-critical ability to regularly question selection, testing and calculation processes in the face of constantly changing building conditions.							
3	Contents								
	Introduction to the use of building materials in construction (including historical developments); extraction, production or manufacture and use of relevant building materials; typical and also harmful basic chemical reactions during production; chemical and physical behaviour of binders and building materials during construction; methods of practical calculation of compositions and characteristic values of building materials; testing and assessment by construction site or laboratory tests within the application; Aspects relating to durability and corrosion behaviour as well as environmental and health compatibility; application of associated standards and other regulations as well as literature sources Primarily for: Natural stone, aggregates, binders, concrete, artificial stones, steel and wood							4! - 1 -	
	assessment to Aspects relation compatibility sources	f composi by constru ing to dur ; applicat	tions and cha uction site or rability and co ion of associa	racteristic val laboratory tes orrosion behav ited standards	ues of buildir sts within the viour as well s and other re	ng material application as environ egulations	s of practical s; testing an n; mental and h as well as lite	ysical l d ealth erature	
4	assessment to Aspects relation compatibility sources	f composity by construing to dur grapplicat Natural s	tions and cha uction site or rability and co ion of associa stone, aggreg	racteristic val laboratory tes orrosion behav ited standards	ues of buildir sts within the viour as well s and other re	ng material application as environ egulations	s of practical s; testing an n; mental and h as well as lite	ysical l d ealth erature	
4	assessment k Aspects relat compatibility sources Primarily for:	f composity by construing to dur grapplicat Natural s	tions and cha uction site or rability and co ion of associa stone, aggreg	racteristic val laboratory tes orrosion behav ited standards	ues of buildir sts within the viour as well s and other re	ng material application as environ egulations	s of practical s; testing an n; mental and h as well as lite	ysical l d ealth erature	
4 5	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse	f composi- by constru- ing to dur ; applicat Natural s require	tions and cha action site or rability and co ion of associa stone, aggreg	racteristic val laboratory tes orrosion behav ited standards gates, binders,	ues of buildir sts within the viour as well s and other ro , concrete, an	ng material application as environ egulations rtificial stor	s of practical s; testing an n; mental and h as well as lite nes, steel and	ysical d d nealth erature d wood	
	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse Combination	f composition construing to during to during; applicat Natural significant require essment exam: Telef the eval	tions and cha action site or rability and co ion of associa stone, aggreg ments	racteristic val laboratory tes orrosion behav ited standards	ues of buildir sts within the viour as well s and other ro , concrete, an	ng material application as environ egulations rtificial stor	s of practical s; testing and n; mental and has well as lite	ysical I d nealth erature d wood	
	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse Combination submission o written exam Condition fo	f composition construction cons	tions and chauction site or rability and coion of association, aggregaments erm paper (couation of all I	racteristic val laboratory tes prrosion behavated standards gates, binders, passisting of pro- laboratory pro-	ues of buildir sts within the viour as well s and other ro , concrete, an esentation in stocols in the	ng material application as environ egulations rtificial stor the labora laboratory	s of practical s; testing and n; mental and has well as lite nes, steel and tory practical portfolio sub	ysical d dealth erature d wood I and omitted),	
5	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse Combination submission o written exam Condition fo Proven partic	f composition composition construction for composition	tions and chauction site or rability and coion of association of association, aggregaments erm paper (counting and of credit the laborato	racteristic val laboratory tes prrosion behavated standards gates, binders, passisting of praboratory pro	ues of buildings within the viour as well and other report of the viour as well and other report of the vious and other report of the vious and passing the vious of vious of the vious of the vious of the vious of the vious of vi	ng material application as environ egulations rtificial stor the labora laboratory he module	s of practical s; testing and n; mental and has well as lite nes, steel and tory practical portfolio sub	ysical I d lealth erature d wood I and omitted),	
5	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse Combination submission o written exam Condition fo Proven partic Use of the m Architecture (r the awaiting to duling to during to during; applicat Natural services and require essment exam: Teleficial the evaluation of the awaiting to during the conduction of the conduction of the awaiting the conduction of the condu	tions and chauction site or rability and coion of association of association of association, aggregaments erm paper (country and of credity the laborato of the following arther of collowing the following arther of credity the following the following arther of the follo	racteristic val laboratory tes prrosion behavated standards gates, binders, passisting of preaboratory pro t points ry practicals a g bachelor deg	ues of buildir sts within the viour as well s and other ro , concrete, an esentation in stocols in the and passing t gree progran	ng material application as environ egulations rtificial stor the labora laboratory he module	s of practical s; testing and n; mental and has well as lite nes, steel and tory practical portfolio subsequents.	ysical I d ealth erature d wood I and omitted),	
5	assessment k Aspects relat compatibility sources Primarily for: Participation None Form of asse Combination submission o written exam Condition fo Proven partic	require essment exam: Te f the eval aination r the awa cipation in module (ir (B.A.); Civ B.Eng.)	tions and chauction site or rability and coion of association of association of association, aggregaments erm paper (country and of credity the laborato of the following arther of collowing the following arther of credity the following the following arther of the orange arther of the following arther of the following arther of the following arther of the following arther of the orange arther of the following arther of the orange arthered a	racteristic val laboratory tes prrosion behavated standards gates, binders, passisting of preaboratory pro t points ry practicals a g bachelor deg	ues of buildir sts within the viour as well s and other ro , concrete, an esentation in stocols in the and passing t gree progran	ng material application as environ egulations rtificial stor the labora laboratory he module	s of practical s; testing and n; mental and has well as lite nes, steel and tory practical portfolio subsequents.	ysical I d ealth erature d wood I and omitted),	
5 6 7	assessment to Aspects relative compatibility sources. Primarily for: Participation None Form of asset Combination submission of written exame Condition for Proven participation. Architecture (Engineering (Marchitecture (Engin	require essment exam: Te f the eval aination r the awa cipation in module (in (B.A.); Civ B.Eng.)	tions and charactions and charaction site or rability and color of association of association, aggregaments The paper (color of all I ard of credit the laborato of the following will Engineering and characteristics).	racteristic val laboratory tes prrosion behavated standards gates, binders, passisting of preaboratory pro t points ry practicals a g bachelor deg	ues of buildir sts within the viour as well s and other ro , concrete, an esentation in stocols in the and passing t gree progran	ng material application as environ egulations rtificial stor the labora laboratory he module	s of practical s; testing and n; mental and has well as lite nes, steel and tory practical portfolio subsequents.	ysical I d ealth erature d wood I and omitted),	

Busin	ess Administ	ration						Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	150 h	5	6th sem.	Annual	Winter	1 sem.	Compulsory elective	B.A.
1	Course		Contact hours	Self-	Forms of te	eaching	Planned	Language
	type			study	(forms of le	earning)	group size	
	Lecture		3 SCH 45 h	60 h	Lecture		120	German / English
	Exercise		1 SCH 15 h	30 h	Exercise		120	German / English /
2	Learning out	comes /	competence	es				
3	administratio business adm	n. They k ninistratio applicati	nodule, the stunow the fundan as well as thoms and task form.	imental contr ne necessary	rol variables, terminology	methods a They can	and instrume also transfer	their
	 Introd Legal Phase Legal Merge Functi Busine 	luction to influencing of corports of corports of forms of the corports and accorports and accorports and accorports and accorports of the corports of the cor	orate developn the companies quisitions siness adminis	nking nent s	s administrat	lon		
4	Participation None	require	ments					
5	Form of asse Written exam							
6	Condition for Module exam			points				
7		(B.A.), Pr	odule (in the foject Manager ering (B.Eng.)				ucture Engin	eering
8	Module supe Prof. DrIng		Ebel					
9	Other inform	nation						

Archit	tectural Visua	alisation						Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
X	150 h	5	1st sem.	Annual	Winter	1 sem.	Compulsory	ВА
1	Course type		Contact hou	urs Self-	Teaching fo	orms	Planned	Language
				study	(learning n	nethods)	group size	
	Lecture		1 SCH / 15 h 20 h		Lecture		100	German
	Exercise		1 SCH / 15	h 25 h	Individual/g	group	15–20	German
3	N.N. CAD sub-mod Skills in mode objects as we modelling bu Contents Architectural General inforformats, line geometric coof areas, flat CAD sub-mod Functioning of as well as the of varying coauxiliary constrames. Deriv	dule: ern comp ell as visu ildings in Visualisa mation or widths ar nstructior projection dule: of modern eir constructions wation of e	uter-aided dralising them conformity we tion Technique visualisation draws; third-angles and inters CAD system action elements arting with to complete elevations, see	rafting. Underson a compute vith standards les sub-moduln techniques (ching, section a	standing the r. Acquisition e: (e: (drawing matal and plan value) (and derivation of the defiting of the defi	terials and eviews, plands from the mational mat	equipment, s contents); Ba se, such as t odelling of br ects on the c ex componer nensioning a	heet asic rue sizes uildings omputer ots with and plan
4	Participation None	n require	ments					
5	Form of asse	essment						
		ted and m		the form of a	written exam	nination as	well as indep	endently i
6	Condition for Written exan exercises			t points fully finished t	erm paper, p	proof of par	ticipation in	tha
	exercises							ine
7	Application of			following sturnagement Cor				une
	Application of	(B.A.) an	d Project Mar	•				me

Appendix 3 to the SPO – Module catalogue for Architecture (B.A.)
Bielefeld University of Applied Sciences – Faculty of Minden Campus

Intro	duction to the	e History	of Architec	ture				Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	150 h	5	1st sem.	Annual	Winter	1 sem.	Compulsory elective	B.A.
1	Course		Contact hours		Forms of te	ŭ		Language
	type			_	(forms of le	earning)	group size	-
	Lecture		2 SCH/30 h	45 h	Lecture		60	German
	Exercise		2 SCH/30 h	45 h	Individual/g	roup work	20	German
	Learning outcomes / competences Through successful participation in the module course, students have a basic knowledg of the eras of architectural history and their socio-cultural context. They are able to recognise, apply and assign architectural features of the individual era well as structures and archetypes that transcend them, and to develop connections. You will receive instructions on how to work scientifically.							
3	- From antiqu - Capturing the	uity to the he cultura al theoreti	e Industrial Re al context and ical backgrou	eras of archite evolution and I zeitgeist. nds and archi	up to the mo			
4	Participation None	n require	ments					
5	Form of asse Term paper	essment						
	Condition for	r the aw	ard of credit	•				
6	Successful su	ubmission	of the term	paper, passino	g the module	examinati	on	
7		of the mo	'	• •	-		on	
	Successful su Application of	of the mo (B.A.) ervisor	odule (in the	• •	-		on	

Desig	ın I							Abbr.		
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level		
	180 h	6	3rd sem.	Annual	Winter	1 sem.	Compulsory	B.A.		
1	Course		Contact hours	Self-	Forms of te	aching	Planned	Language		
	type		iloui s	study	group size					
	Practical / Se	minar	4 SCH/60 h	120 h	Individual/g	roup work	15	German		
2	Learning outcomes / competences After successful participation in the module course, students will be able to: - define, illustrate, organise and develop architectural/urban planning concepts. - assess architectural contexts in terms of design, construction and building law. They gain the ability and competence to intersect parameters: - urban context, programme, construction, building services, economy, sustainability, material and design. - architectural and urban design.									
3	Contents									
	 Analysis of tasks. Designing architectural projects. Understanding the relationship between function, programme, construction and design. Implementation of the programme in form and material. Training in designing through sketching, drawing and making experimental models. Presentation of the designs by the media: Text, drawing, visualisation, model-making. 									
4	Participation		ments							
				t, the subject lundamentals				"Principles		
5	Form of asse Project work	essment								
6	Condition for Successful su examination			t points ation of the se	emester draft	ting project	, passing the	e module		
7	Application of Architecture		odule (in the	following stud	dy programm	nes):				
8	Module supervisor Prof. DiplIng. Gesche Grabenhorst, Prof. DiplIng. Bettina Georg, Prof. DiplIng. Bettina Mons, Prof. DiplIng. Bernd Niebuhr, Prof. DiplIng. Peter Sassenroth, Prof. DiplIng. Georg Schönborn									
9	Other inform	nation								

Desig	n II							Abbr.		
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level		
	180 h	6	4th sem.	Annual	Summer	1 sem.	Compulsory	B.A.		
1	Course		Contact hours	Self-	Forms of te	aching	Planned	Language		
	type			study	(forms of le	earning)	group size			
	Practical / Seminar		4 SCH/60 h	120 h	Individual/g	roup work	15	German		
2	Learning out				marviada, g	Toup Work	10	German		
	After successful participation in the module course, students will be able to: - define, illustrate, organise and develop architectural/urban planning concepts - assess architectural contexts in terms of design, construction and building law. They gain the ability and competence to intersect parameters: - urban context, programme, construction, building services, economy, sustainability, material and design. - architectural and urban design.									
3	Contents									
	 Analysis of tasks. Designing architectural projects. Understanding the relationship between function, programme, construction and design. Implementation of the programme in form and material. Training in designing through sketching, drawing and making experimental models. Presentation of the designs by the media: Text, drawing, visualisation, model-making. 									
4	Participation	require	ments							
				t, the subject +II", "Fundan						
5	Form of asse	essment								
	Project work									
6	Condition for Successful su examination			t points ation of the se	emester draft	ing project	t, passing the	e module		
7	Application of the module (in the following study programmes): Architecture (B.A).									
8	Module supervisor Prof. DiplIng. Gesche Grabenhorst, Prof. DiplIng. Bettina Georg, Prof. DiplIng. Bettina Mons, Prof. DiplIng. Bernd Niebuhr, Prof. DiplIng. Peter Sassenroth, Prof. DiplIng. Georg Schönborn									
9	Other inform	nation								

Intro	duction for Fi	rst-Sem	ester Studer	nts				Abbr.			
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level			
	О	0	1st sem.	Annual	Winter	1 week	Compulsory	B.A.			
1	Course Contact Self- Forms of hours			Forms of te	eaching	Planned	Language				
	type			study	(forms of learning) group siz						
	Lecture		One week		Lecture		German				
	Sem. lessons		introduction		Exercises a	nd					
	Exercise		+ classes in		tutorials						
	Internship / S	Seminar	the		Evoursions						
			2nd week			xcursions					
2	Learning out	comes /	competenc	es	Projects			<u> </u>			
	They become familiar with the basic conditions of the degree programme and gain knowledge of the study schedule and examination procedures as well as the exchange of information on campus.										
3	Contents	Contents									
	The faculty, its facilities and the venue of study, Minden Structure of the degree programmes, timetables Introduction to the faculty library and how to use it Information on the university organisation and the student self-governing bodies Introduction to data processing Safety briefings										
4	Participation	reauire	ments								
	Acceptance le	-									
5	Form of asse	essment									
	No examinati	on									
6	Condition for	r the awa	ard of credit	points							
7	Application of	of the mo	odule (in the	following stud	dy programm	nes):					
				ee programm							
8	Module supe	rvisor									
	Prof. DrIng.		ißmann								
9	Other inform										
				ents from higl emic staff fror				egree			

First	-Semester Stu	idents M	aths Fitness	<u> </u>				Abbr.				
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level				
	О	0	1st sem.	Annual	Winter	0.5 sem.	Compulsory elective	B.A.				
1	Course		Contact hours	Self-	Forms of teaching Planned							
	type			study	(forms of learning)		group size					
	Lecture		1 SCH	on	Lecture		35	German				
	Exercises + 1	utorials	1 SCH	demand	Sem. lessor	าร	35	German				
				on demand								
2	Learning out	comes /	competenc	es								
	After success	ful compl	etion of the r	module								
	 by reviewing it in the Maths Fitness module, the students are able to enter the module Mathematics 1 with the basic knowledge imparted, the students have strengthened their study skills in terms of self, methodological and social competences and refreshed their school knowledge. 											
3	Contents											
	Mathematics:	Mathematics:										
	 Numbers, basic rules for calculating with real numbers, Fractions, percentages and powers, Binomial formulae and quantities, Solving equations, Calculation and representation of linear and quadratic functions. 											
4	Participation	-	ments									
	Acceptance le	ettei										
5	Form of asse											
	No examinati	on										
6	Condition for	r the awa	ard of credit	t points								
7	Application of This module			following stud		nes):						
8	Module supe Prof. DrIng.		ters									
	Other inform	nation										
	Introductory	lecture w		of 2 SCH on a	total of 5 da	ays in the r	norning until	the middl				
	of the semes	ter in a bl	OCK.									

Tech	nical English							Abbr.			
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level			
	150 h	5	1st sem.	Annual	Winter	1 sem.	Compulsory Compulsory elective	B.A.			
1	Course		Contact	Self-	Forms of teaching Planned			Language			
	type		hours	study	(forms of le	earning)	group size				
	1360				(IOIIIIO OI I	Jul 1 111197	g. oup 5.25				
	Sem. lessons 4 SCH/60 h		90 h	Sem. lessor Exercise	าร	25	English				
2	Learning out	tcomes /	competend	es							
	- You can languag - You are construc - You can - You can	On successful completion of the module, students have the following knowledge and skills: - You can understand and summarise construction-related English-language texts and documents - You are able to communicate in English with colleagues in meetings about construction projects - You can make telephone calls in English - You can produce simple written documents in English about construction projects - You are able to use English technical vocabulary in your profession									
3	Contents	Contents									
	- Compo - Building - Drawing - Negotia - Tenders - Constru	 Professions in the construction industry Components and building constructions (e.g. foundation, roof) Building materials Drawings and plans Negotiations with clients Tenders and contracts Construction sites and construction organisation Telephone communication 									
4	Participation	require	ments								
	None										
5	Form of asse Written exam										
6	Condition for Module exam			t points							
7	Application of the module (in the following study programmes): Project Management Construction (B.Eng.), Infrastructure Engineering (B.Eng.), Architecture (B.A.), Civil Engineering (B.Eng.),										
8	Module supe Cathrine Stor										
9		compulso		a module in B I English or Er			e compulsory	,			

Englis	sh Presentati	ons						Abbr.		
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level		
	150 h	5	6th sem.	Annual	Summer	1 sem.	Compulsory ³ Compulsory elective	B.A.		
1	Course		Contact hours	Self-	Forms of to	eaching	Planned	Language		
	type			study	(forms of learning) gr		group size			
	Sem. lessons	essons 4 SCH/60 h		90 h	Sem. lessor Exercise	าร	25	English		
2	 Learning outcomes / competences On successful completion of the module, students have the following knowledge and skills: Students are able to create and conduct a presentation in English in an international professional context They can adapt the language register used to the listeners' knowledge of English and adapt the tone to their level of awareness They are able to apply learned linguistic structures and conventions that make the presentation more accessible to the audience 									
3	Contents									
	 Presentation techniques Structuring and "signposting" Presenting facts and data Intonation and articulation Dealing with questions Correct choice of tone (formal – casual) Linguistic use of visual aids Literature research and familiarisation with independently selected construction-related presentation themes 									
4	Participation Formally: nor assumed.	-		t, knowledge (of the modul	e "Technica	al English" is			
5	Form of asse									
	Combination (Oral examin		%) and writte	en examinatio	n (30%))					
6	Condition for Module exam			points						
7	Application of Project Mana Architecture	gement C	Construction	(B.Eng.), Infra	• • •		(B.Eng.),			
8	Module supe Cathrine Sto									
9	Other information For BAR it is compulsory* to take a module in Business English from the compulsory elective catalogue: either Technical English or English Presentations									

Conc	ceptual Design	1							Abbr.		
No.	Workload	Credit points	Study semester	F	requency	Sem.	Duration	Туре	Q level		
	120 h	4	5th sem.		Annual	Winter	1 sem.	Compulsory	B.A.		
1	Course Contact hours				Self-	Forms of te	aching	Planned	Language		
	type				study	(forms of le	earning)	group size			
	Exercise	ercise 3 SCH / 45 h		75 h	Individual/g	roup work	20	German			
2	Learning out	comes /	competend	es							
	After successful completion of the module, students have the following knowledge and skills and are able to: - deepen their practical and theoretical knowledge in drafting and design - to develop individual expression techniques and to practically realise their design ideas in form and aesthetics. By increasing the quality of their designs, their competitiveness increases. They learn to apply multimedia techniques in accordance with the demands of contemporary building culture										
3	Contents										
	 Development of sophisticated design projects and concepts on free themes Competitions from the fields of art, architecture and design Conceptual design for building, open space and urban design Exhibition concepts and object development Architectural presentation with various graphic media, also films / videos / photography, digital and analogue 										
4	Participation Formally, nor "Principles of	ne; in terr	ns of content					the modules			
5	Form of asse Project work	essment									
6	Condition for Module exam			t p	oints						
7	Application of Architecture		odule (in the	fo	llowing stud	dy programm	nes):				
8	Module coord Professor Dip		ttina Georg								
9	Other inform	ation									

Freeh	nand Drawing								Abbr.	
No.	Workload	Credit points	Study semester	F	requency	Sem.	Duration	Туре	Q level	
	150 h	5	2nd sem.		Annual	Winter	1 sem.	Compulsory elective	B.A.	
1	Course		Contact hours		Self-	Forms of te	eaching	Planned	Language	
	type				study	(forms of le	earning)	group size		
	Exercise	xercise 3 SCH / 45 h		105 h	Individual w	vork	20	German		
2	Learning outcomes / competences At the end of the class, students are able to comprehend and grasp a spatial situation and then draw it freehand. Furthermore, they are enabled to express a spatial situation with a design idea in drawing. Furthermore, they will be able to quickly and confidently put freehand sketches and perspectives on paper for clients and specialist planners in their later professional life.									
3	Contents - Perspective drawing (one and two vanishing points) - Different locations when drawing (frog, eye and bird's eye view) - Shadow construction in perspective drawing on site - Creating spatial depth - Hatching techniques - Drawing indoors and outdoors - Sheet division when drawing - Thematic series (cafés, churches, furniture, architectural details etc.)									
4	Participation None	require	ments							
5	Form of asse Project work:		ion of a sketo	ch (diary with c	Irawings on a	a given top	ic		
6	Condition for Module exam			t po	oints					
7	Application of Architecture		odule (in the	fol	llowing stud	dy programm	nes):			
8	Module coord Professor Dip		ttina Georg							
9	Other inform The course is		y the lecture	r D	DiplIng. Ma	alte Wulf				

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Histo	ory of Architec	ture							Abbr.	
No.	Workload	Credit points	Study semester	Fr	requency	Sem.	Duration	Туре	Q level	
	150 h	5	4th sem.		Annual	Summer	1 sem.	Compulsory	B.A.	
1	Course type		Contact hours			Forms of te (forms of le	_	Planned group size	Language	
	Lecture		2 SCH/30 h		45 h			60	German	
	Exercise		2 SCH/30 h		45 h	Individual/g	roup work	20	German	
2	Learning out	comes /	competenc	es						
	After successful participation in the module, students will: - be able to allocate architecture and urban design to the different building eras and link them to their corresponding cultural contexts. - be able to recognise and assign the architectural-theoretical connections of the eras to art, philosophy and politics and to develop correlations. - receive instructions on how to work scientifically.									
3	Contents - History of architecture from the Industrial Revolution to the present. 19th and 20th century: Revolutionary architecture, Classicism, Art Nouveau, 1920s (Bauhaus), post-WWII reconstruction. - Thematisation of architectural development in the context of art, philosophy, politics, economy and industry.									
4	Participation Formally, nor "Principles of	ne; in terr	ns of content						;	
5	Form of asse Term paper	essment								
6	Condition for Successful su					the module	examinatio	on		
7	Application of Architecture		odule (in the	foll	owing stud	ly programm	es):			
8	Module supe	rvisor								
	Prof. DiplIn	g. Bernd	Niebuhr							
9	Other inform	nation								

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Bielereid Offiversity of Applied Sciences – Faculty of Millideri Campus	
	Bieleield University of Applied Sciences – Faculty of Millideri Campus

Princ	iples of Archi	itectural	Design I					Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	210 h	7	1st sem.	Annual	Winter	1 sem.	Compulsory	B.A.
1	Course		Contact hours	Self-	Forms of te		Planned	Language
	type			study	(forms of le	earning)	group size	
	Lecture		2 SCH / 30 I		Lecture		66	German
	Seminar		3 SCH / 45 I	n 90 h	Individual/g (supervised	•	15	German
2	Learning out	comes /	competenc	es				
3	On successfu skills: - Students leater they gain a models. They will be at define the function of the spatial orgation of the contents Contents Shapes and punces in Analysis of the typology of human completion of architectural development presentation	arn the cr n awaren able to: unctional, nisation. a architect cognitive proportion ut the col an archit he elemen ousing. f small co plans. of spatia	aft of architeress of spatial aesthetic an tural plan graeskills that ar a, plastic designcept of structural contectural contectural contectural construction ta	ctural drafting thinking, whi d constructive phic for a smeet a prerequise gn. cture, especial xt. ture in the in sks in the execution in the	ch is support e relationship all construction ite for archite lly in relation terior, space ercises. Learn	ed by work s that mak on project. ectural des to spatial typology a ing how to	king on te up a succe In doing so, ign. structures ar nd floor plan present	they
4	Participation		ments					
	None	oquii e						
5	Form of asse Project work	essment						
6	Condition for Module exam			points				
7	Application of Architecture		odule (in the	following stu	dy programm	es):		
8	Module coor	dinator						
	Professor Dip	lIng. Be	ettina Georg					
9	Other inform The module " Architectural	Principles		ıral Design II	' builds on th	e module '	'Principles of	

Princ	ciples of Archi	itectural	Design II					Abbr.			
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level			
	210 h	7	2nd sem.	Annual	Summer	1 sem.	Compulsory	B.A.			
1	Course		Contact hours	Self- study	Forms of te	_	group size	Languag e			
	Lecture Seminar		2 SCH / 30 3 SCH / 45		Lecture Individual/g (supervised	•	66 15	German German			
2	The module k Design I". Af - implet requir - develo	Learning outcomes / competences The module builds on the introductory knowledge of the module "Principles of Architectural Design I". After successful participation, students will be able to: - implement more complex (small) design tasks with higher functional and space requirements with clearly defined concept requirements. - develop more sophisticated plan graphics to communicate and present the architectural design concept.									
3	Contents - Introduction to design theory and methodology - Teaching about the relationships between spatial programme, function, construction and form, façade design, materiality and colour in an architectural context. - Warm-ups using design exercises and development of buildings Execution of design tasks for individual buildings on topics such as: residential buildings, hotels, - Cafés, student housing, small libraries, etc Introduction to contemporary architecture and critical analysis										
4	Participation	n require ne; in terr	ments ms of content	design draft t, the subject is assumed	<u> </u>	ontained in	the module				
5	Form of asse Project work	essment									
6	Condition for Module exam			points							
7	Application of Architecture		odule (in the	following stud	dy programm	nes):					
8	Module coor Professor Dip		ttina Georg								
9	Other inform	nation									

	ndamentals of Technical Building Equipment										
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level			
	180 h	6	1st/2nd sem. BPM 3rd/4th sem. BAR	Annual	Winter/ summer	2 sem.	Compulsory	B.A.			
1	Course		Contact	Self-	Forms of te	eaching	Planned	Languag			
	type		hours	study	(forms of le	earning)	group size	е			
	Lecture		3 SCHSCH/4	_	Lecture		99	German			
	Exercise		3 SCHSCH/4	45 h	Group work		20	German			
2	Learning ou	tcomes /		es							
	sub-areas in	the conte	xt of the buil	inical building ding life cycle cide on conce	;;		•				
3	Contents										
	comfort), str (e.g. heating The various s the context of construction References to	Based on the needs of the client and the building user (e.g. thermal and hygienic comfort), structural and technical means are developed to solve the various problems (e.g. heating systems, air conditioning concepts). The various sub-areas of technical building equipment are examined, their significance in the context of integral planning is elaborated and their particular relevance for construction and operating costs is demonstrated. References to the extensive body of standards, guidelines and laws supplement the teaching content.									
4	Participation	n require	ments								
	None										
5	Form of asse	essment									
	Written exam	า									
6	Condition fo	r the awa	ard of credit	t points							
	Module exam	nination pa	ass								
7	Use of the m	nodule (ir	the followin	g degree prog	grammes)						
	Architecture	(B.A.) and	d Project Mar	agement Con	struction (B.	Eng.)					
8 Module supervisor											
8		Prof. DrIng. Ulrich Schramm									
8		. Ulrich So	chramm								

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Inter	national Proje	ect							Abbr.	
No.	Workload	Credit points	Study semester	Freque	ency	Sem.	Duration	Туре	Q level	
	150 h	5	6th sem.	Annu	al	Summer	1 sem.	Compulsory elective	B.A.	
1	Course		Contact hours	Self-		Forms of te	aching	Planned	Language	
	type		liours	study	,	(forms of le	earning)	group size		
	Practical / Se	eminar	4 SCH/60 h	90) h	Individual/g	ıraya wark	15	German	
2	Learning out				J 11	marviada//g	Toup Work	10	German	
	Upon successful completion of the module, students will have the following knowledge and skills; they will be able to: - define, process, analyse, evaluate and develop architectural and urban planning concepts in international cooperation. Students have basic knowledge, competences, experience of project work in an international, socio-cultural context, possibly experience of teamwork with international partner colleges/universities. Language competence (e.g. technical English) will be reinforced.									
3	Contents									
	 Designing architectural/urban planning projects in an international context. Design training, potentially through international teamwork / workshops / excursions Imparting/reflecting knowledge through lectures/seminars, potentially together with international partner colleges/universities. 									
4	Participation Formally, nor "Principles of	ne; in terr								
5	Form of asse Project work	essment								
6	Condition for Successful pa				roje	ct, passing th	ne module	examination		
7	Application of Architecture		odule (in the	following	g stu	dy programm	nes):			
8	Module supe	ig. Gesch								
	Mons, Prof. [Schönborn	וףוing.	berna Niebul	nr, Prof. I	וקור	ing. Peter Sa	assenrotn,	Prof. DiplIr	ig. Georg	
9	Other inform	nation								

Cost	Estimation							Abbr.		
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level		
	150 h	5	4th sem.	Annual	Summer	1 sem.	Compulsory	B.A.		
1	Course type		Contact hours		Forms of te	_	Planned group size	Language		
	Lecture		2 SCH/30 h		Presentation interactive	٦,	39	German		
	Exercise		2 SCH/30 h	45 h	Individual exercises		20	German		
2	- create realist - develop plate - examine the prepare DIN	ful compl stic cost e nning spe e feasibili N-complia	etion of the restimation in ecifications baty of the projet fee calcula	nodule, stude early project p ased on a give ect scope und	ohases, n cost frame er the given	work,	conditions,			
3	Contents - Basics of cost estimation - Presentation of influencing factors - Definitions of terms (DIN 276, DIN 277, HOAI etc.) - Overview of cost planning methods and procedures - Use of planning and cost parameters ("design-to-cost") - Fee calculation for architectural and engineering services according to HOAI									
4	Participation None	ı require	ments							
5	Form of asse Written exam									
6	Condition for Module exam			t points						
7	Application of Architecture		·	following stud nagement Cor	J . U	•				
8	Module supe	rvisor								
9	Other inform	nation								

Planr	Planning Management									
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level		
	150 h	5	3rd sem. BPB 5th sem.	Annual	Winter	1 sem.	Compulsory	B.A.		
			BAR							
1	Course		Contact hours	Self-	Forms of te	eaching	Planned	Language		
	type			study	(forms of le	earning)	group size			
	Lecture		2 SCH/30 h	45 h	Lecture		80–100	German		
	Exercise		2 SCH/30 h	45 h	Individual a group work		20	German		
2	Learning out	comes /	competenc	es			I			
	and skills: They are able to: - distinguish, develop and apply organisational and scheduling structures for complex planning and building construction projects to take on the generalist role of the architect in the planning and construction team or to take over the diverse tasks of project managers in construction management and real estate strengthen their own professional competences apply and improve presentation and moderation techniques as well as social skills in teamwork.									
	Contents									
	 Basics and terms of project management for the real estate and building construction; Structural and procedural organisation of construction projects; Internal and external project organisation; Organisational tools, information and documentation; Stakeholder models and fields of activity of those involved in the planning and construction process; Basics of quality management; Scheduling; 									
4	- Application Participation			15 (0.g. 110711	7410 301103	010.71				
	None									
5	Form of asse Combination		ion (term pa _l	per and oral e	examination)					
6	Condition for Successful su				ng of the mo	dule exami	nation			
7	Application of Architecture									
8	Module supe Prof. DiplIn		a Mons							
9	Other inform	nation								

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Law								Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	150 h	5	1st/3rd/5t h	Annual	Winter	1 sem.	Compulsory	B.A.
1	Course		sem. Contact	Self-	Forms of te	aching	Planned	Language
-			hours					
	type Lecture			study	(forms of le	earning)	group size	
			4 SCH/60 h	90 h	Lecture / So	cript	150	German

2 Learning outcomes / competences

After successfully participating in the module, students have the following knowledge and skills:

By acquiring knowledge of the legal foundations of public and private building law, students will be in a position, at the end of the course, to analyse the legal issues of simple case studies from practice and bring the case studies to a defensible solution using basic solution techniques.

3 Contents

Part A:

Private/Public Building Law

General legal orientation and decision-making skills in the preparatory planning and implementation phases of construction with regard to the resulting general and project-related framework conditions and consequences.

Planning law

- Urban land use planning
- Land use plan; development plan
- Determinations of the Development Plan; safeguarding of urban land use planning; preservation of the plan
- Admissibility of projects under building planning law; BauGB, BauNVO (German building regulations law/construction law)
- Functions and content of building regulations law; BauO NRW
- Hazard prevention, aesthetic concerns
- Substantive and formal building code law
- Legal protection of citizens

Part B: Contractual law

Differentiation of contractual forms and legal relationships of the parties involved in the construction:

- Law on contracts for work and services according to the German Civil Code (BGB), differentiation from sales contracts, contracts for work and services, service contracts,
- Architectural law, main features of the architect and engineer contract with special consideration of the new regulations to the German Civil Code (BGB) as of 01.01.2018 and the HOAI
- VOB Part A, B, C
- incl. their historical development and legal nature as GTCs and basic features of public procurement law
- Differences between VOB and BGB with special consideration of participants (specialist contractor, main contractor, subcontractor, general contractor, general contractor, property developer, forms of cooperation);
- Organisation; deadlines, quality, remuneration and disputes in construction (court organisation, independent procedure for taking evidence, lawsuit, notice of dispute, joint and several obligation)

4	Participation requirements
	None
5	Form of assessment
	Written examination
6	Condition for the award of credit points
	Successful completion of the joint module examination (written examination parts A and B)
7	Application of the module (in the following study programmes):
	Architecture (B.A.) and Project Management Construction (B.Eng.) – each in the 3rd
	semester; Civil Engineering (B. Eng.) in the 5th semester; Infrastructure Engineering (B.Eng.) in the 1st semester.
8	Module supervisor
	Prof. DiplIng. Bettina Mons
9	Other information
	The courses are taught by lecturers, currently: NN

Urbai	n Design								Abbr.
No.	Workload	Credit points	Study semester	F	requency	Sem.	Duration	Туре	Q level
	240 h	8	5th sem.		Annual	Winter	1 sem.	Compulsory	B.A.
1	Course		Contact hours		Self-	Forms of te	aching	Planned	Language
	type Lecture				study	(forms of le	earning)	group size	
			2 SCH/30 h	CH/30 h 45 h		Lecture		60	German
	Practical / Se	minar	4 SCH/60 h		105 h	Individual/g	roup work	15	German
2	Learning out	tcomes /	competenc	es					
	After successful participation in the module course, students will be able to: - define, analyse, evaluate and develop urban planning concepts assess the urban planning context - to carry out urban planning designs for urban redevelopment/urban expansion - assess the permissibility of building projects - assess urban planning contexts in terms of design, sociological, ecological and legal aspects								
3	 Contents Definition of basic terms and area of expertise of urban planning. Urban planning as planning the order of living together. City models and utopias in reflection of the social and political situation of the time. Urban design, ecology and sustainability in urban development. Urban planning methodology, analyses, types of plans. Fundamentals of urban land use planning/levels of spatial planning: Land use plan, development plan, urban framework planning, admissibility criteria (Section 34, Section 35) 								
4	Participation	-							
	Formally, nor "Principles of								
5	Form of asse Project work	essment							
6	Condition for	r the awa	ard of credi	t po	oints				
	Successful supassing the r			atio	on of the ur	ban design s	semester d	rafting projec	ct,
7	Application of Architecture		odule (in the	fol	lowing stud	dy programm	nes):		
8	Module supe	rvisor							
	Prof. DiplIn		Niebuhr						
9	Other inform	nation							

Ad-H	oc Design								Abbr.
No.	Workload	Credit points	Study semester	F	requency	Sem.	Duration	Туре	Q level
	120 h	4	2nd sem.		Annual	Summer	1 sem.	Compulsory	B.A.
1	Course		Contact hours		Self-	Forms of te	aching	Planned	Language
	type				study	(forms of le	earning)	group size	
	Practical / Se	minar	3 SCH / 45	h	75 h	Individual/g	roup work	15	German
2	Learning out	tcomes /	competend	es					
	After successful participation in the module, students will be able to: - define, work on, analyse and develop architectural concepts within a time-limited framework - work intensively on a specific topic in a short time through text, drawing and modelling.								
3	 Contents - Analysis of tasks. - Designing smaller architectural projects, design tasks, design exercises, essays, etc. - Implementation of the programme in construction, design and material. - Training in designing through sketching, drawing and making experimental models. 								
4	Participation Formally, nor "Principles of	ne; in terr	ms of content						i
5	"Principles of Architectural Design I" and "Fundamentals of Design I" is assumed Form of assessment Project work 2 x 14-day draft (draft over 14 days) 2 x ad-hoc (draft over 24 hours)								
6	Condition for the award of credit points Successful submission of the 4 individual short designs (2 x 14-day draft and 2 x impromptu), passing the module examination								
7	Application of the module (in the following study programmes): Architecture (B.A.)								
8	Module supervisor Prof. DiplIng. Gesche Grabenhorst, Prof. DiplIng. Bettina Georg, Prof. DiplIng. Bettina Mons, Prof. DiplIng. Bernd Niebuhr, Prof. DiplIng. Peter Sassenroth, Prof. DiplIng. Georg Schönborn								
9	Other inform	nation							

Struct	uctural Engineering I								
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level	
X	180 h	6	1st + 2nd sem.	annual	Summer/ winter	2 sem.	Compulsory	ВА	
1	Course type		Contact hou	ursSelf- study	Teaching fo (learning m		Planned group size	Language	
	Lecture		3 SCH / 45	5 45 h	Lecture		70	German	
	Exercise		2 SCH / 30	60 h	Group wor	rk	35	German	
2	Learning out	comes/c	competence	s					
	theories and models of equilibrium and deformation. Acquisition of the ability to independently assess and design load-bearing structures as a design tool as well as the ability to engage in dialogue between the architect and the structural engineer.								
3	Constructive design principles; actions, forces and moments; load-bearing structure and load transfer; static modelling and idealisation; equilibrium in the plane; relative stiffnesses and deformations; statically determinate systems (beams and frames); support forces and internal forces; cross-section values; materials; stability; deformation work and deformations; statically indeterminate systems; structural typologies; members with bending, shear and normal force loading; trusses								
4		om the p	arallel study	offers: Buildir equations and		and Buildin	g Constructio	n,	
5	Form of asse Subject-relat		ethodical in t	the form of a	written exam	nination			
6	Condition for Passing of or			points on or online o	ral examinat	ion			
7	Application of the module (in the following study programmes): Architecture (B.A.)								
8	Module coord Prof. DrIng		Eisfeld MSc						
9	Other inform	ation							

Struct	tural Enginee	ring II						Abbr. TWL2	
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level	
X	150 h	5	4th sem.	annual	Winter	1 sem.	Compulsory	ВА	
1	Course type		Contact hou	ursSelf-	Teaching for	orms	Planned	Language	
				study	(learning m	nethods)	group size		
	Lecture		2 SCH / 30	30h	Lecture		70	German	
	Exercise		2 SCH / 30	0 60h	Group wor	·k	35	German	
2	Learning out	romes /	competence	.e					
	structure using to independent Factual know	ng the the ntly designed ledge abo	eories and mogn constructives out system and	gelements as odels from "S vely by workir nd form findin id-bearing stru	tructural Eng ng on a proje ng of individua	ineering I" ct from oth	. Enhancing t er design su	the ability bjects.	
	Project types of building construction; construction types (solid, steel and timber as well as prefabricated elements); structural material properties; horizontal actions; design and predimensioning of bracing systems; interaction of structural elements in a load-bearing structure; typologies of structural elements for spanning (beams, resolved beams and floor systems as well as arch-like systems); supporting (columns and walls) and foundation (foundation-relevant soil properties, ground-contacting structural elements, shallow and deep foundation structural elements); façade systems, pre-dimensioning and pre-dimensioning of common structural elements of common building construction; material-dependent connections for joining structural elements								
4	Participation requirements Knowledge from "Structural Engineering I" and from the parallel study offers: Building Materials and Building Construction								
5		ed and m		the form of a e form of proj		ination as	well as socia	lly	
6	Condition for Passing of or project work	ıline writt		t points on or online o	oral examinat	ion as well	as successfu	ılly finished	
7	Application of Architecture		odule (in the	following stud	dy programm	nes):			
8	Module coord	dinator							
	Prof. DrIng		Eisfeld MSc						
9	Other inform	ation							

Land	Surveying							Abbr.
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level
	150 h	5	2nd sem.	Annual	Summer	1 sem.	Compulsory elective *	B.A.
1	Course		Contact hours		Forms of te	_		Language
	type				(forms of le	earning)	Group size	
	Lecture		1 SCH / 15 I	n 25 h	Lecture		15	German
	Practical cour	rse	3 SCH / 45 I	n 65 h	Practical co	urse	5	German
2	Learning out	comes /	competenc	es				
	 carry out and evaluate a hydrostatic and a geometric levelling, derive a profile representation from a terrain survey using a GNSS system and a correction data service, describe and execute different methods and tools of position measurement and their possible applications, measure an object in a local and in a superordinate coordinate system and represent it in a map, carry out a building survey as a manual survey, tachymetrically and photogrammetrically, calculate stakeout data from coordinates and transfer them orthogonally and polar to the terrain, perform basic geodetic calculations (coordinates, areas and volumes). 							
3	Contents							
	 Mathematical and geodetic basics Geodetic instruments for height and position measurement and their handling Structure and function of machine controls Geodetic calculations, longitudinal and transverse profiles, routing elements Building survey methods 							
4	Participation None	require	ments					
5	Form of asse Combination		erm paper and	d written exar	n or term pa	per and ora	al exam	
6	Condition for	r the awa	ard of credit	points				
	Proven partic	cipation in	the practica	ls, passing the	e module exa	amination		
7	Application of		odule (in the	following stud	dy programm	nes):		
	Architecture	<u> </u>						
8	Module supe Prof. DrIng		itkemper					
0			itkerriper					
9		are taugh		g. Andreas No e module mus				

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Seco	cond Foreign Language – Russian								
No.	Workload	Credit points	Study semester	Frequency	Sem.	Duration	Туре	Q level	
	150 h	5	1st sem.	Annual	Winter	1st sem.	Compulsory elective	B.A.	
1	Course		Contact hours	Self-	Forms of	_		Language	
	type			study	(forms of le	earning)	group size		
	Lecture		2 SCH/30 h	45 h	Lecture		20	Russian/ German	
	Practical exer	cise	2 SCH/30 h	45 h	Practical ex	ercises	20	Russian/G erman	
	At the end of the semester, students will be able to form and use simple sentences, ask and answer short questions in the area of language competences. You can understand simple sentences and communicate in situations involving familiar things, e.g. introduce yourself, ask about people, places, objects, country names, origin, nationality, etc., talk about various activities, ask about them, have simple conversations, make short telephone calls. In the area of written competences, they have mastered the Cyrillic script. You are able to read simple texts and understand familiar vocabulary and topics.								
3	 Contents Cyrillic script. Pronunciation rules. Emphasis. Nouns, nominative singular								
4	Participation None		Possessions, a ments		<i>J</i> . J				
5	Form of asse Written exam								
6	Condition for Module exam			points					
7	Application of Architecture		odule (in the tivil Engineering	_			nstruction (B	.Eng.)	
8	Module supe Prof. Dr. Grit								
9	of the langua	o of the st age at lev ot possibl	tudents speak el B2-C1. This e to create dif	varies from	course to co	urse. Due t	o the lack of	teaching	