

Module Handbook

# **Bachelor of Architecture**

Valid from winter semester 2019/20 Last updated April 2021

Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminden/Göttingen University of Applied Sciences and Arts

www.hawk.de/b

## Preface:

The Bachelor of Architecture study program aims to provide successful graduates with general and subject-specific knowledge, skills, and competencies that, after critical reflection, enable them to act independently and responsibly in a constantly evolving professional environment. Graduates have a broad and integrated basic and specialized knowledge in the field of architecture, especially in the areas of design and building theory, general sciences, technical sciences, and representation and design. The acquisition of interdisciplinary qualifications is an integral part of the program. They are able to understand theories, principles and methods of the field and to deepen their knowledge. The knowledge, skills and competences the students acquire can be applied largely independently to work out solutions to problems in their field of expertise.

The Bachelor's degree awarded upon completion of the program is a first professional qualifying degree at Level 1 of the *Qualifications Framework for German Higher Education Qualifications*. The degree qualifies the student to enter studies at Level 2 (Master's programs). Please note that a six-semester course of study in architecture only allows a graduate to use the protected professional title of "architect" according to the relevant legal regulations of the federal states under certain circumstances. This requires registration in the list of architects in one of the chambers of architects, which usually requires that a minimum of four years of standard studies have been completed. Bachelor graduates of the architecture program at HAWK can fulfill this requirement by successfully completing a consecutive Master's program in architecture.

The entire Bachelor of Architecture program is the same and mandatory for all students. However, elective options exist within the framework of two modules officially assigned to the 6th semester. Please note that the Individual Profile Studies module can be completed during the course of the degree program, depending on what HAWK-Plus has to offer.

The student workload is listed in the module descriptions at the top of the semester hours section. The teaching capacity listed below does not necessarily correspond to this; if more weekly teaching hours are listed there, then this means a division into smaller, possibly parallel working groups.

Preparatory and further literature references/recommendations will be given at the beginning of each course or via the Stud.IP communication platform in advance. Students must also register there for the modules.

Students are strongly advised to seek academic advising, especially with regard to possible further qualification.

		Credit	points	per sem	nester						
Course code	Module name	1	2	3	4	5	6	Classroom attendance	Home study	Workload	Type of examinatio
BA 1-1	First Project	12						180	180	360	PA
BA 1-2	Building and Cultural History	6						90	90	180	K2
BA 1-3	Building Materials Science 1	3						45	45	90	K1
BA 1-4	Structural Engineering 1	3						45	45	90	K2
BA 1-5	Building construction 1	6						90	90	180	StA
			10				r	100	100	000	
BA 2-1 BA 2-2	Project: Context City Building Survey, CAD 2D		12 6					180 90	180 90	360 180	PA StA
BA 2-2 BA 2-3			-					90 45	90 45	90	K1
	Building Materials Science 2		3							90 90	
BA 2-4	Structural Engineering 2		3					45	45		K1
BA 2-5	Building Construction 2, Building Physics 1		6					90	90	180	K2
3A 3-1	Draft Project			12			r	180	180	360	PA
3A 3-2	Urban Development 1			6				90	90	180	StA
BA 3-3	Building Services 1			3				30	60	90	K1
BA 3-4	Structural Engineering 3			3				45	45	90	StA
BA 3-5	Building Construction 3, Building Physics 2			6				90	90	180	K2
			r	r		•	1	(00	(		
BA 4-1	Design Project				12			180	180	360	PA
BA 4-2	Urban Development 2 and Regional Planning				3			45	45	90	StA
BA 4-3	Building Operations / Building Law 1				6			90	90	180	K2
BA 4-4	Building Services 2				3			45	45	90	StA
BA 4-5	Building Construction 4				6			90	90	180	K2
BA 5-1	Project: Construction in Existing Buildings					12		120	240	360	PA
BA 5-2	Design, Visualization					6		90	90	180	StA
BA 5-3	Building Operations / Building Law 2					6		90	90	180	StA
BA 5-4	Energy-Efficient Building					6		90	90	180	StA
BA 6-1	Architecture Workshop						6	3	177	180	StA
3A 6-2	Individual Profile Studies						6	3	177	180	StA
3A 6-3	Individual Profile Studies (HAWK plus)						6	60	120	180	indiv.
BA 6-4	Individual Project – Bachelor Thesis	30	30	30			12	10 2304	350 3096 54	360	AA

 Explanation of abbreviations

 AA
 Final thesis with colloquium

 indiv.
 Module work according to HAWK-Plus K1

 K1
 1-hour written exam

 K2
 2-hour written exam

 Ref
 Seminar paper

 StA
 Student research paper with / without colloquium

 PA
 Project work with colloquium

PA Project work with colloquium

Allocation to course	e of study	Module name		Course	code	Internal	Last updat	ed
Bachelor of Ar	chitecture	First Pr	oiect	BA	1-1		08.04.2	021
Study semester 1st semester	Offered in WS		-,	Credit 12 C		1	Semester 12 SWS	week hours
Allocation to study	specialization	Responsible for modul				, group size,	if applicable	2
- Can also be credite -	d to study program	Prof. Dr Ing. Till	Böttger		ure & ex age of inst nan			
Requirements acco	rding to examination reg	ulations	Recommended p	orerequisites				
Study/examination	achievements/ examinat	tion types	If applicable, wei	ghting of the s	tudy/exa	mination ach	ievements	
Project work w								
Module objecti	ves/desired learning	g outcomes:						
<ul> <li>understand s</li> <li>describe elem architectural</li> <li>transfer and o</li> <li>descriptive geo</li> <li>use a concret</li> <li>confidently contexts,</li> </ul>	al perception and le patial relationships b pentary space-forming whole, correctly execute pro- pmetry) to concrete e design project in s	systematic steps and ults of their project v	in detail, erentiated mar spatial represen formulate an a	ntation tech	nniques I concep	(e.g. ot,		
specific locatio In four exercise formation and architectural co - Additive and - Composition - Outdoors and - Ordering fund The following t - Technical dra - Body and spa - Anthropomet	n. es, students are intro representation tech oncept. The followin subtractive space fo of space-forming ele indoors, spatial ref- tional relationships opics are covered in wing, conventions o ce, movement in spa rics and scale	ements erences	of spatial perce aft" then bundl ught: ures rchitecture	eption and	design a	ind gradua	ally deepe	-
Course attenda	nce time (mandato	ry hours – LVS)	Workload (in	hours)	-			
Prof. Dr Ing.	ill Böttger	6 LVS	Course attend		1	study		1
N.N.		6 LVS 6 LVS	Lecture	60 h		e accompa xam prepa		180 h
N.N.			Exercise Other	120 h			ination	100 11
Total course at	tendance time	18 LVS	Total workloa	ad				360 h
Optional extra								
is listed in Stu	u.17							

Allocation to course of study	Module name		Course	code	Internal	Last updat	ed
Bachelor of Architecture			BA	1-2		08.04.2	021
Study semester Offered in 1st semester WS	<ul> <li>Building a</li> <li>History</li> </ul>	nd Cultural	Credit 6 CP			Semester 6 SWS	week hours
Allocation to study specialization	Responsible for mod			of teaching, group size, if applicable ture			,
Can also be credited to study program	Carolin Prinzhor	n IVI.A., V-Prot		ge of insti	ruction		
-			Germ	nan			
Requirements according to examination rep	gulations	Recommended p	rerequisites				
tudy/examination achievements/ examina Written examination (K2)	ation types	If applicable, wei	ghting of the s	tudy/exar	nination ach	ievements	
Aodule objectives/desired learnin Students are able to	g outcomes:						
<ul> <li>name periods of Central Europea manner and describe them in thei</li> <li>classify typical historical building geographical context</li> </ul>	r cultural-historical	contexts					
ontents:							
Knowledge of building history is ke	ey and fundamental	to evaluating th	e current b	uilt envi	ronment.		
The lecture offers an overview of necessary references back to antio taught, as well as the relationships	quity. Period classific	cations, stylistic	features, ar	id buildi	ng history	terminol	ogy are
Course attendance time (mandato		Workload (in					
Carolin Prinzhorn M.A., V-Prof	6 LVS	Course attend	1	Home	study e accompa	anving	
	-	Lecture Exercise	90 h		accompa am prepa		90 h
	-	Other			1		
Total course attendance time	6 LVS	Total workloa	ad	1			180 h
Dptional extra	1						-
<b>Literature</b> is listed in Stud.IP							

Allocation to course	e of study	Module name		Course	code	Internal	Last upda	ted
Bachelor of Ar	chitecture	Building	g Materials	BA	1-3		08.04.2	021
Study semester	Offered in	Science		Credit p	points		Semester	week hours
1st semester	WS			3 CP			3 SWS	
Allocation to study	specialization	Responsible for modu Prof. Dr Ing. Sal			teaching	, group size,	if applicabl	e
Can also be credite	d to study program	Hone Bit ing. 50	Sine ment Semen	-	ge of inst	ruction		
-			1	Germ	ian			
Requirements acco	rding to examination re	gulations	Recommended pro	erequisites				
Study/examination Written exami	achievements/ examin nation (K1)	ation types	If applicable, weig	hting of the si	tudy/exar	nination ach	nievements	
Aodule objectiv	ves/desired learnii	ng outcomes:						
Introduction to	building materials	science, terms and e	essential basics					
density, streng - the productio This should en	th, deformation be n and possible use able them to weigh	nd chemical properti havior, corrosion, fire of the treated buildin up the advantages a or the building projec	e resistance), ng materials and disadvantage					-
The following of General princip formation, fun Regulations an Properties of b Binding agents	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc	with in the module: terials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a	or) heir use gth, deformation areas of applicati	behavior, on	corrosio	on, fire re	sistance	al propert
General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr	erials science (classif deformation behavio lding materials and th uch as density, streng	or) heir use gth, deformation areas of applicati nd properties, ar	behavior, on eas of appl	corrosio	on, fire resist	sistance	al propert
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr	erials science (classif deformation behavio lding materials and tl uch as density, streng ture and properties, a oduction, structure a	or) heir use gth, deformation areas of applicati nd properties, ar	behavior, on eas of appl	corrosio	on, fire resist	sistance	al propert
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf Masonry const	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr	erials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a oduction, structure an n, structure and prop	or) heir use gth, deformation areas of applicati nd properties, ar	behavior, on eas of appl pplication,	corrosio	on, fire resist	sistance	al propert
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf Masonry const	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struct orced concrete: pro ruction: production	erials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a oduction, structure and n, structure and properties of properties and pro	or) heir use gth, deformation areas of applicati nd properties, ar erties, areas of a	behavior, on eas of appl pplication, ours)	corrosio	on, fire resist	sistance	al propert
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf Masonry const	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr ruction: production	erials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a oduction, structure and n, structure and properties of properties and pro	or) heir use gth, deformation areas of applicati nd properties, ar erties, areas of a Workload (in h	behavior, on eas of appl pplication, ours)	corrosic lication, fire res Home Course	on, fire resist fire resist istance study e accompt	sistance tance anying	
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf Masonry const	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr ruction: production	erials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a oduction, structure and n, structure and properties of properties and pro	or) heir use gth, deformation areas of applicati nd properties, ar erties, areas of a Workload (in h Course attenda Lecture Exercise	behavior, on eas of appl pplication, ours) ance time	corrosic lication, fire res Home Course	on, fire resist fire resist istance study	sistance tance anying	al propert 45 h
The following of General princip formation, fun Regulations an Properties of b Binding agents Concrete/reinf Masonry const	oles of building mat ction, strength and d standards for bui uilding materials, s : production, struc orced concrete: pr ruction: production	erials science (classif deformation behavio lding materials and th uch as density, streng ture and properties, a oduction, structure and n, structure and properties of properties and pro	or) heir use gth, deformation areas of applicati nd properties, ar erties, areas of a Workload (in h Course attenda Lecture	behavior, on eas of appl pplication, ours) ance time 45 h	corrosic lication, fire res Home Course	on, fire resist fire resist istance study e accompt	sistance tance anying	

Allocation to course	e of study	Module name		Course	code	Internal	Last upda	ed
Bachelor of Ar	chitecture	Structur	al	BA	1-4		08.04.2	021
Study semester 1st semester	Offered in WS	Enginee	ring 1	Credit 3 CP			Semester 3 SWS	week hours
Allocation to study	specialization	Responsible for modu	ıle				if applicable	2
- Can also be credite	d to study program	N.N.			ure & exe age of instr			
-				Gern				
Requirements acco	rding to examination re	egulations	Recommended p	orerequisites				
Study/examination Written exami	achievements/ examin nation (K2)	nation types	If applicable, we	ighting of the s	study/exam	nination ach	ievements	
Module objectiv	ves/desired learni	ng outcomes:						
<ul> <li>locate and ex</li> <li>calculate the</li> </ul>	plain the various p loads and forces o	pporting structure an hysical or mechanical n simple static system building materials.	forces acting c	on a structur	e,	-	l or mech	anical
<ul> <li>Forces and fo</li> <li>Equivalence a</li> <li>Idealization o</li> <li>Calculation of</li> <li>Calculation of</li> <li>Determinatio</li> <li>Calculation of</li> </ul>	rce systems nd balance of forc f the construction loads and forces of support and cuttion n of cross-section	to the static system on the structure ng forces on the bean values (section modul tion forces and sectio	n (bending) li for standard d	_				
			1					
	<b>nce time</b> (mandat		Workload (in Course atten		Home	ctudy		
N.N.		3 LVS	Lecture	45 h	Home Course	accompa	anving	
			Exercise			am prepa		45 h
		-	Other					
Total course at	tendance time	3 LVS	Total worklo	ad				90 h
Optional extra Literature is listed in Stur	d.IP							

Allocation to course	e of study	Module name		Course code	Internal	Last updated
Bachelor of Arc	chitecture	Building	Construction	BA 1-5	5	08.04.2021
itudy semester 1st semester	Offered in WS	1	construction	Credit points 6 CP		Semester week hours 4 SWS
llocation to study	specialization	Responsible for modu	le		ng, group size,	if applicable
		Tina Wallbaum, \	V-Prof.	Lectures &		
an also be credite	d to study program			Language of in German	nstruction	
equirements acco	rding to examination reg	ulations	Recommended prere			
udy/examination	achievements/ examina	tion types	If applicable, weighti	ng of the study/e	xamination ach	ievements
	rith colloquium	,,				
Iodule objectiv	ves/desired learnin	g outcomes:				
<ul> <li>identify and d</li> <li>recognize the</li> <li>understand th</li> <li>construction,</li> <li>use materials</li> <li>distinguish be</li> </ul>	istinguish between interaction of desig ie essential modes of and use them accor according to their s tween individual co construction proces	pecific material prop onstruction methods	insights from it an arious component perties, and take them int	s of a structur o account in t	e, especially ne planning	solid process,
- grasp basic bu building syste - apply the mos - present execu Contents:	m, st important laws, o ition and detail plan	rders, standards and is at scales relevant t sonry construction'	d other rules releva to actual practice.	nt to construc	ction,	
- grasp basic bu building syste - apply the mos - present execu Contents: Main topic 'soli - Basic principle - Basic principle - Building in the - Building in the - Solid wall stru connection	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction pundation systems waterproofing the area of foundation	d other rules releva to actual practice. considering the fol	nt to construc	ction,	ceiling – and roof
- grasp basic bu building syste - apply the mos - present execu ontents: Main topic 'soli - Basic principle - Basic principle - Building in the - Building in the - Solid wall stru connection - Solid wall stru - Natural and a - Thermal, sour	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation c rtificial stones, mor	rders, standards and is at scales relevant t isonry construction uction, typology – co ruction waterproofing the area of foundation of openings tars and plasters on in solid construction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin	nt to construc	ction,	ceiling – and roof
grasp basic bu building syste apply the mos- present execu- ontents: Main topic 'soli Basic principle Basic principle Building in the Building in the Solid wall stru connection Solid wall stru Natural and a Thermal, sour Ceiling structu	m, st important laws, o ition and detail plan id construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation c rtificial stones, mor ad and fire protectic	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction bundation systems waterproofing the area of foundation of openings tars and plasters on in solid construction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin	nt to construction	ction,	ceiling – and roof
grasp basic bu building syste apply the mos present execu ontents: Aain topic 'soli Basic principle Basic principle Building in the Building in the Solid wall stru connection Solid wall stru Natural and a Thermal, sour Ceiling structu	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation o rtificial stones, mor ad and fire protectio ires in solid constru	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction bundation systems waterproofing the area of foundation of openings tars and plasters on in solid construction ction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin on	Int to construct lowing points sign th, exterior w urs) ce time Hor	all as well as	
grasp basic bu building syste apply the mos present execu ontents: Aain topic 'soli Basic principle Basic principle Building in the Building in the Solid wall stru connection Solid wall stru Natural and a Thermal, sour Ceiling structu	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation o rtificial stones, mor ad and fire protectio ires in solid constru	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction oundation systems waterproofing the area of foundation of openings tars and plasters on in solid construction ction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin on Workload (in hou Course attendan Lecture §	Int to construct lowing points sign th, exterior w urs) <u>ce time Hon</u> <u>10 h Cou</u>	ne study rse accompt	anying
grasp basic bu building syste apply the mos- present execu- ontents: Main topic 'soli Basic principle Basic principle Basic principle Basic principle Building in the Solid wall stru connection Solid wall stru Natural and a Thermal, sour Ceiling structu	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation o rtificial stones, mor ad and fire protectio ires in solid constru	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction bundation systems waterproofing the area of foundation of openings tars and plasters on in solid construction ction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin on Workload (in hor Course attendan Lecture E Exercise 1	Int to construct lowing points sign th, exterior w urs) <u>ce time Hon</u> <u>10 h Cou</u>	all as well as	anying
- grasp basic bu building syste - apply the mos - present execu ontents: Main topic 'soli - Basic principle - Basic principle - Building in the - Building in the - Building in the - Solid wall stru connection - Solid wall stru - Natural and a - Thermal, sour - Ceiling structu	m, st important laws, o ition and detail plan d construction - ma es of building constr es of masonry const e ground: Soil and fo e ground: Structural ctures: Detailing in ctures: Formation o rtificial stones, mor ad and fire protectio ires in solid constru	rders, standards and is at scales relevant t isonry construction' uction, typology – co ruction bundation systems waterproofing the area of foundation of openings tars and plasters on in solid construction ction	d other rules releva to actual practice. considering the fol onstruction and de on, basement, plin on Workload (in hou Course attendan Lecture §	Int to construct lowing points sign th, exterior w urs) <u>ce time Hon</u> <u>10 h Cou</u>	ne study rse accompt	anying

Bachelor of Ar	e of study	Module name		Course code	Internal	Last updated
	chitecture	Project: Con	text Citv	BA 2-1		08.04.2021
Study semester 2nd semester	Offered in SS		icent enty	Credit points 12 CP		Semester week hours 12 SWS
Allocation to study	specialization	Responsible for module Prof. Ines Lüder		Type of teaching Lecture & ex		if applicable
Can also be credite	d to study program			Language of inst German	ruction	
Requirements acco	rding to examination re		Recommended prer BA 1-1	equisites		
	achievements/ examination	ation types I	f applicable, weight	ing of the study/exa	mination ach	ievements
Project work v -	vith colloquium					
Module objecti	ves/desired learnin	ng outcomes:				
					-Xammano	on of a
<ul> <li>derive and pr</li> <li>present their c</li> <li>technical aspective drawings as weighted and furth</li> </ul>	lesign concept to an cts, e.g. in the form ell as models in all s ner develop their ov	-	termined frame tructured and c basic drawings ce, h individually ar	ontextualized ma , site plans, floor nd as a team, thr	anner acco plans, sec ough activ	ording to content and tions, views, detail

Course attendance time (mandatory hours –	· LV3)	Workload (i	n nours)	1	
Prof. Ines Lüder	8 LVS	Course atte	ndance time	Home study	
Prof. Dr Ing. Till Böttger	4 LVS	Lecture	90 h	Course accompanying	
Dipl Ing. Martina Reichelt	4 LVS	Exercise	90 h	and exam preparation	180 h
Dipl Ing. Gerald Hannemann	4 LVS	Other			
Total course attendance time	22LVS	Total work	oad		360 h
Optional extra					
Assistant lecturer Dipl Ing. Dirk Neumann	4 LVS				
Literature					
is listed in Stud.IP					

Allocation to course	of study	Module name		Course code	Internal	Last update	d
Bachelor of Arc	hitecture			BA 2-2		08.04.20	21
Study semester 2nd semester	Offered in SS	- Building Su	irvey, CAD 2D	Credit points 6 CP		Semester w 4 SWS	eek hours
Allocation to study	specialization	Responsible for modul		Type of teachi		if applicable	
-		Carolin Prinzhorn	M.A., V-Prof	Lecture & e			
Can also be credited	i to study program			Language of in German	Struction		
Requirements accor	ding to examination regu	llations	Recommended prere	quisites			
Study/examination Project work w	achievements/ examinati i <b>th colloquium</b>	ion types	If applicable, weightir	ng of the study/e>	amination ach	nievements	
Module objec	tives/desired learni	ing outcomes:					
possible applie - abstract from and visualize t architecture, - convert a cons - accurately cor - prepare, struc and approval - gain knowledg	cations, buildings that have hem using analog an struction with analog nmunicate and com ture, and digitally an planning, ge of analog and digi ructions with refere	ing and display tech already been realize nd digital recording g recording techniqu pile data in a group nd physically comple ital CAD applications nce to the chosen m	ed or mentally constant representation ues true to deform setting as part of C ete a CAD plan set	truct building techniques c ation in a mar AD 2D exercis 2D for a prelin	s that are y ommonly u ual drawing ses, ninary desig	et to be rea used in g, gn, draft de	ilized sign,
lectures, the co Building survey First of all, anal executed. In a s measurement t that has already	ntents of the exercis og drawings are use econd step, these sj ools. Students work	d to record the prop patial situations are in groups to learn h series of precise, dim uction survey.	, combined and de portions of complex recorded using var ow to make analog	epened. < spatial situat ious measure g and digital te	ions that h ment meth echnical dra	ave already ods and owings for a	
blueprint into v		alog or image-based an set is created tha wings.		-		-	om
Course attenda	<b>nce time</b> (mandator	y hours – LVS)	Workload (in hou				
	rn M.A., V-Prof	6 LVS	Course attendand		ie study		
Dipl Ing. Thom	nas Kauertz	4 LVS			se accomp		00 -
		-		0 h and	exam prepa	aration	90 h
Total courses a t	andones the -	-	Other <b>Tetel</b> workload				4001
Total course att Optional extra	endance time	10 LVS	Total workload				180 h
Literature is listed in Stud	J.IP						

	e of study	Module name		Course co	de Internal	Last updated				
Bachelor of Arc			a Matariala	BA 2		08.04.2021				
Study semester	Offered in		g Materials	Credit poi	_	Semester week hours				
2nd semester	SS	Science		3 CP		3 SWS				
Allocation to study	specialization	Responsible for mode Prof Dr - Ing Sa	bine Iffert-Schier	Type of te 3V	aching, group size,	if applicable				
Can also be credited	d to study program			Language	Language of instruction					
- Requirements acco	rding to examination re	gulations	Recommended pre		equisites					
Study/ovamination	achievements/ examina	ation types	If applicable, weigh	ting of the stud	v/evamination act	ievements				
Written examin		ation types	ii applicable, weigh		yy chammation der					
Upon successfu	-	is module, students		-						
density, stren	gth, deformation b	nd chemical properti ehavior, corrosion, f of the treated buildi	fire resistance),	truction and	materials in a	chitecture (e.g.				
This should ena	able them to weigh	up the advantages a	and disadvantages	of the indiv	idual building ı	naterials and make				
	-	or the building proje	-		C C					
Contents:										
Wood and woo Ferrous and no Manufacture, s	d-based materials: n-ferrous metals: E tructure and prope	vith in the module: Structure and prope Extraction and produ erties, fasteners, fire ties, areas of applica	iction, structure ar resistance	nd propertie	s, corrosion, fir	e resistance glass:				
material develo		ties, areas of applica	tion, fire resistanc	e Current bl	lliding					
	P									
	nce time (mandato	pry hours – LVS)	Workload (in h	ours)						
Course attenda	<b>nce time</b> (mandato abine Iffert-Schier	ory hours – LVS) 4 LVS	Workload (in he Course attenda	-	lome study					
Course attenda			Course attenda	nce time F	łome study Course accomp	anying				
Course attenda			Course attenda	nce time H 45 h C						
Course attenda Prof. Dr Ing. S	abine Iffert-Schier	4 LVS - - - -	Course attenda Lecture Exercise Other	nce time H 45 h C a	Course accomp	aration 45 h				
Course attenda Prof. Dr Ing. S Total course att	abine Iffert-Schier		Course attenda Lecture Exercise	nce time H 45 h C a	Course accomp					
<b>Course attenda</b> Prof. Dr Ing. S	abine Iffert-Schier	4 LVS - - - -	Course attenda Lecture Exercise Other	nce time H 45 h C a	Course accomp	aration 45 h				
Course attenda Prof. Dr Ing. S Fotal course att	abine Iffert-Schier	4 LVS - - - -	Course attenda Lecture Exercise Other	nce time H 45 h C a	Course accomp	aration 45 h				
Course attenda Prof. Dr Ing. S Total course att	abine Iffert-Schier	4 LVS - - - -	Course attenda Lecture Exercise Other	nce time H 45 h C a	Course accomp	aration 45 h				

Allocation to course	e of study	Module name		Course	code	Internal	Last updat	ted
Bachelor of Arc	hitecture	Structura	al	BA	2-4		08.04.2	021
Study semester 2nd semester	Offered in SS	Engineer	ring 2	Credit 3 CP	ooints		Semester 2 SWS	week hours
Allocation to study	specialization	Responsible for modul				, group size,	if applicable	5
- Can also be credited	d to study program	Dipl Ing. Gerald	Hannemann		ire & ex ge of inst			
-				Germ	-	laction		
Requirements acco	rding to examination reg	ulations	Recommended Structural er					
Study/examination Written examination	achievements/ examinat nation (K1)	tion types	If applicable, we	ighting of the s	tudy/exar	mination ach	nievements	
Module objectiv	ves/desired learning	g outcomes:						
quasi-static lo - explain the m load-bearing s - produce cons form and cont	ads in a differentiat ode of action of vari safety and serviceab tructive designs in a textual reference,	ious load-bearing sys	stems, realistic ntext with a fo	cus on the s	e their s tructure	tresses ar e, taking ir	nd assess t nto accour	nt detail,
<ul> <li>Load-bearing</li> <li>Single-span ar</li> <li>Frame structu</li> <li>Half-timbered</li> </ul>	effect of basic load- nd multi-span beams ires I building compressive stress		l force, shear f	orce and be	nding lo	ads		
<b>C</b>								
Dipl Ing. G. Ha	nce time (mandator	3 LVS	Workload (ir Course atten		Home	study		
5 min mg. 0. 110		-	Lecture	40 h		e accompa	anying	
		-	Exercise	5 h		kam prepa		45 h
		-	Other	<u> </u>				
Total course at	endance time	3 LVS	Total worklo	ad				90 h
Optional extra								
Literature is listed in Stud	d.IP							

Backelor of Architecture         Building Construction 2/ Juilding Physics 1         BA 2-5         08.04.2021           Attendent to study questionation 	Allocation to course		Module name		Course		Internal	Last updat	
2nd semester         SS         Construction 2/ Building Physics 1         6 CP         4 SWS           Allocation to study updatization         Regionation module Prof. Matthias Patzold         Type of teaching, group size, if applicable Lecture 8, exercise           Can also be credited to study arguing         Recommended precessibles         Lecture 8, exercise           Can also be credited to study arguing         Recommended precessibles         Lecture 8, exercise           Study-beamination achievements/ countingtion types         # Explorable, weighting of the study/coamination achievements           Written examination (K2)         # Explorable, weighting of the study/coamination achievements           • classify the various load-bearing and non-load-bearing elements of the building structure, explain the way in which they function in each case and embed them in no varial structural context,           • closporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,           • independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis,           • independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis,           • independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis,           • independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis, <td< td=""><td></td><th></th><th>Buil</th><td>ding</td><td></td><td></td><td></td><td></td><td>-</td></td<>			Buil	ding					-
Allocation to study (specialization is study program is in a special state is study program is in a special structural context, is incorporate special structural, functional and design interrelationships and dependencies in execution and detail planning and use them accordingly in the planning process.            - independently apply and implement design interrelationships and dependencies in execution and detail planning and use them accordingly in the planning process.             - independently apply and implement design interrelationships and dependencies in execution, and interrelationships in all scales relevant to execution,         - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis.         - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis.         - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis.         - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis.         - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis.         - Stude designs, types of construction drawings in all scales relevant			Constru	ction 2/		points			week nours
Prof. Matthias Pătzold     Lecture & exercise     German      Prof. Matthias Pătzold     Lecture & exercise     German      Prof. Matthias Pătzold     Lecture & exercise     German      Prof. Matthias Pătzold     German      Prof. Matthias Pătzold     Lecture & exercise     German      Prof. Matthias Pătzold     Gurse attendance time (mandatory hours – LVS)     Workload (in hours)      Prof. Matthias Pătzold     Gurse attendance time     12 LVS     Stererise     10 Augeration     10 Augeratio			Building	Physics 1					
Can also be credited to study program       Can pupper of instruction         Tequirements according to examination regulations       Recommended prerequisites         Study/examination achievements/ examination regulations       BA 1-5         Written examination (K2)       If applicable, weighting of the study/examination achievements         -       -         Study/examination achievements/ examination types       If applicable, weighting of the study/examination achievements         -       - <tr< td=""><td>Allocation to study</td><th>specialization</th><th></th><td></td><td></td><td></td><td></td><td>if applicable</td><td></td></tr<>	Allocation to study	specialization						if applicable	
German Reguments according to examination regulations BA 1-5 Study/coamination achievements/ coamination types Written examination (K2)      Hapficable, weighting of the study/coamination achievements      Written examination (K2)      Hapficable, weighting of the study/coamination achievements      Study to an investigation (K2)      Hapficable, weighting of the study/coamination achievements      Study to an investigation (K2)      Hapficable, weighting of the study/coamination achievements      Students are able to      Classify the variaus load bearing and non-load-bearing elements of the building structure, explain the way in which they function in each case and embed them in an overall structural context,      incorporate specialis standandrads and legal framework conditions (e.g., building authority approval) into their professional activities,      recognize the structural, functional and design interrelationships and dependencies in execution and detail planning and use them accordingly in the planning process      independently prepare construction drawings in all scales relevant to execution,      recognize interrelationships in building physics (summer/winter thermal insulation, moisture protection, sound insulation, etc.) and take them into account in the planning process.	- Can also he credited	to study program	Prof. Matthias Pä	tzold					
BA 1-5           Study/camination achievements/ camination types         If applicable, weighting of the study/camination achievements           Written examination (K2)         If applicable, weighting of the study/camination achievements           Students are able to         -           - classify the various load-bearing and non-load-bearing elements of the building structure, explain the way in which they function in each case and embed them in an overall structural context,           - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,           - recognize the structural, functional and design interrelationships and dependencies in execution and detail planning and use them accordingly in the planning process           - independently apply and implement design rules and coordinate them with other specialists on an interdisciplinary basis,           - independently apply and implement design rules and coordinate thermal insulation, moisture protection, sound insulation, etc.) and take them into account in the planning process.           Contents:           Focus on roof structures:           - Sloped roofs, flat roofs, green roofs           - Accessorite, chimneys, fireplaces, ventilation shafts           - Stairways Basic designs, types of construction           - Basic principles of heat and moisture transport           - Application of the basic principles to the requirements of minimum heat and climate-related moisture protection on the basis of building code requirements	-						uction		
Written examination (K2)         -         Module objectives/desired learning outcomes:         Students are able to         - classify the various load-bearing and non-load-bearing elements of the building structure, explain the way in which they function in each case and embed them in an overall structural context,         - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,         - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,         - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,         - independently apply and implement design rules and coordinate them with other specialists on an interdiscipinary basis,         - independently prepare construction drawings in all scales relevant to execution,         - recognize interrelationships in building physics (summer/winter thermal insulation, moisture protection, sound insulation, etc.) and take them into account in the planning process.         Vortents:         - Sloped roofs, flat roofs: Designs and materials         - Walkable and drivable roofs green roofs         - Accessories, chinmeys, fireplaces, ventilation shafts         - Stairways Basic designs, types of construction         - Basic principles of heat and moisture transport         - Application of the basic principles to the requirements of minimum heat and climate-related	Requirements acco	rding to examination regu	ulations		orerequisites				
			ion types	If applicable, we	ighting of the s	tudy/exar	nination ach	ievements	
Students are able to            - classify the various load-bearing and non-load-bearing elements of the building structure, explain the way in which         they function in each case and embed them in an overall structural context,             - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into         their professional activities,             - recognize the structural, functional and design interrelationships and dependencies in execution and detail         jlaning and use them accordingly in the planning process.             - independently apply and implement design rules and coordinate them with other specialists on an         incredisciplinary basis,         - independently prepare construction drawings in all scales relevant to execution,         - recognize interrelationships in building physics (summer/winter thermal insulation, moisture protection, sound         insulation, etc.) and take them into account in the planning process.             Store of structures:             Sloped roofs, flat roofs: Designs and materials         Sultable and drivable roofs, green roofs         Accessories, chimmeys, fireplaces, ventilation shafts         Stairways Basic designs, types of construction         Basic principles of theat and moisture transport         Application of the basic projelaces, ventilation shafts         Application of the basic projelaces, there requirements of minimum heat and climate-related moisture protection on         the basis of building code requirements             Course attendance time (mandatory hours – LVS)             Morkload (in hours)             Prof. Ing	-								
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- classify the various load-bearing and non-load-bearing elements of the building structure, explain the way in which they function in each case and embed them in an overall structural context.     - incorporate specialist standards and legal framework conditions (e.g. building authority approval) into their professional activities,     - recognize the structural, functional and design interrelationships and dependencies in execution and detail planning and use them accordingly in the planning process     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - independently prepare construction drawings in all scales relevant to execution,     - scognize interrelationships in building physics (summer/winter thermal insulation, moisture protection, sound insulation, etc.) and take them into account in the planning process.  Contents:  Sloped roofs, flat roofs: Designs and materials     - Walkable and drivable roofs, green roofs     - Accessories, chimneys, fireplaces, ventilation shafts     - Stainways Basic designs, types of construction     - Basic principles of heat and moisture transport     - Application of the basic principles to the requirements of minimum heat and climate-related moisture protection on the basis of building code requirements  Course attendance time (mandatory hours – LVS)     Vorkload (in hours)     - Frof. Authias Pätzold     - Other     - Other	Churche and a la	-1- +-							
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	•	•		-	•	structur	e, explain	the way i	n which
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Allocation to course	e of study	Module name		Course	code	Internal	Last upda	ed
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Study semester <b>3rd semester</b>	Offered in WS		oject		Credit points 12 CP		Semester week hours 12 SWS	
llocation to study	specialization	Responsible for modu		Type of teaching, group size, if applicable Lecture & exercise			5	
- Can also be credited	d to study program	Tina Wallbaum,	V-Prot.		ge of instr			
-			1	Germ				
equirements acco	rding to examination re	egulations	Recommended p BA 1-1, BA 2-					
tudy/examination	achievements/ examin	ation types	If applicable, wei		udy/exan	nination ach	ievements	
Project work w	ith colloquium							
-								
odule objectiv	ves/desired learning	ng outcomes:						
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- critically revie	w their own proce	ip, design information esses in learning and a own development as	achieving succes	is,	-		into prac	tice,
<ul> <li>coordinate joil</li> <li>critically revies</li> <li>assume response</li> <li>ontents:</li> <li>Design of multiple</li> <li>With different</li> <li>Urban planning</li> <li>Analysis of strational different mate</li> <li>Development</li> </ul>	w their own proce nsibility for their of ti-story buildings v iated residential for g insertions – e.g. g development pla uctural systems of erials, including the of concepts for sir	vith mixed uses, such own development as with mixed uses, such orms, including parkir with so-called volum n – but also urban de multi-storey skeleto ose combined – acco nple Technical Buildin	achieving succes well as for the de as offices, comp ng facilities for si etric sketches – velopment fram n construction a mpanied by lect ng Equipment (T	mercial, pub tationary vel on the basis nework plan) as well as the ures in the fi BE) – in the	n struct lic uses hicles s of exis eir use i ield of s above-	or similar ting build n the desi structural mentione	r, and – in ling law (e gn proces engineeri d building	tegrated e.g. ss in
<ul> <li>coordinate joil</li> <li>critically revies</li> <li>assume response</li> <li>ontents:</li> <li>Design of mules</li> <li>With different</li> <li>Urban planning</li> <li>Analysis of stress</li> <li>Development</li> <li>systems – on</li> <li>Development</li> <li>Reinforcement</li> </ul>	ti-story buildings v iated residential for g insertions – e.g. g development pla uctural systems of erials, including the of concepts for sir the basis of basic k of a fire protectio it and application of	vith mixed uses, such own development as with mixed uses, such orms, including parkir with so-called volum n – but also urban de multi-storey skeleto ose combined – acco	achieving succes well as for the de as offices, come of facilities for si etric sketches – velopment fram n construction a mpanied by lect ng Equipment (T y lecture as well ntegrated lectur presentation and	mercial, pub tationary vel on the basis nework plan) as well as the ures in the f BE) – in the as small, pra es on prever d CAD in the	lic uses hicles s of exis above- actice-c ntive fir archite	or similar ting build n the desi structural mentione oriented es e protecti ctural des	r, and – in ling law (e engineeri d building xercises ion sign proce	tegrated e.g. ing g ss and
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Literature

Allocation to course Bachelor of Arc		Module name		Course co	ode <b>3-2</b>	Internal	Last upda 08.04.2	
Study semester <b>3rd semester</b>	Offered in WS	Urban Dev	elopment 1	Credit po	-		Semester week 4 SWS	
Allocation to study	-	Responsible for modu	ile	Type of t		group size,		е
- Can also be credited	d to study program	Prof. Ines Lüder			Lecture & exercise Language of instruction			
-	x to stady problam			Germa				
Requirements acco	rding to examination re	egulations	Recommended pre BA 2-1	requisites				
Study/examination	achievements/ examin	ation types	If applicable, weigh	ting of the stu	udy/exam	nination ach	ievements	
Student resear	ch paper with colle	oquium						
 Module objectiv	ves/desired learning	ng outcomes:						
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-		al and social relationsh	-	-	-			
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<ul> <li>to confidently cooperation b planning in bu</li> <li>Contents:</li> <li>Study of diver BauNVO (Gerri - Learning urba analysis, and a - Processing of context of exi</li> <li>Development open spaces</li> <li>Examination c in conjunctior</li> </ul>	ased on the division isiness games. sity of use, the mix man Building Use ( n design methods application of urba design tasks in urb sting building struct of urban design co of planning law on n with building cod	on of labor and comm x of uses and their cor Ordinance) and types of planning on framework planning oan planning for existi ctures oncepts for building st the basis of the Germ le requirements for ur	nflicts in the urba g in urban and rur g topics ing buildings, stuc tructures, urban s han Building Code rban planning des	n environm al contexts lies of inser pace, space (BauGB) ar ign	nent ag , e.g. ty rtion all e-formi	ainst the rpes of in- ternatives	backgrou ventory, a s in the ents, gree	as-built n and
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<ul> <li>to confidently cooperation b planning in bu</li> <li>Contents:         <ul> <li>Study of diver BauNVO (Gerri</li> <li>Learning urba analysis, and a</li> <li>Processing of context of exi</li> <li>Development open spaces</li> <li>Examination of in conjunction</li> </ul> </li> <li>Course attenda</li> </ul>	sity of use, the mix man Building Use ( n design methods application of urba design tasks in urb sting building struct of urban design co of planning law on n with building cod	on of labor and comm x of uses and their cor Ordinance) and types of planning oan planning for existi ctures oncepts for building st the basis of the Germ le requirements for ur	nflicts in the urba g in urban and rur g topics ing buildings, stuc tructures, urban s han Building Code rban planning des <b>Workload</b> (in h Course attenda Lecture Exercise	interdiscip	nent aga , e.g. ty rtion all e-formi nd othe <u>Home</u> Course	ainst the pes of in- ternatives rg eleme r urban p	backgrou ventory, a s in the ents, green planning r	as-built n and
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# Literature

	e of study	Module name			e code	Internal	Last updat	
Bachelor of Arc		Tech	nical		A 3-3		08.04.2	-
Study semester 3rd semester	Offered in WS	Building E	quipment 1	Credit 3 CF	points		Semester 2 SWS	week hours
Allocation to study	-	Responsible for modu				group size,		9
-		Prof. DrIng. Me	eike Deck	Lect				
an also be credited -	d to study program			Gerr	age of instr <b>nan</b>	uction		
equirements acco	rding to examination re	gulations	Recommended pr	erequisites				
	h : / : -		BA 1-5, BA 2-5		atudu /ayan	aination ach	iouomonto	
Written examination	achievements/ examin nation (K1)	ation types	If applicable, weig	nting of the	study/exan	nination ach	levements	
· Iodule objectiv	ves/desired learnii	ng outcomes:						
Students are at	ole to							
-		ng services systems a	nd describe how	they worl	κ,			
	ion, supply and dis							
		lculate the total ener	gy demand of th	e building	and esti	mate the	dimensio	ns of the
individual con								
	•	ection with the plan,		vont store	larde	طملممانيا	oir com	liance
plan energy re	equirements indep	endently and in com	pliance with rele	vant stand	iards, an	а спеск tr	ieir comp	liance.
ontents:								
	the bacic principle	s of operative and reso	urce-saving tech	nical build		ament:		
	the basic principle	s of energy- and reso	ource-saving tech	nical build	ling equi	oment:		
ectures teach			-		ling equi	oment:		
ectures teach Heating system	ms and hot water s	s of energy- and reso supply, solar thermal	-		ling equi	oment:		
ectures teach Heating syster Building servio	ms and hot water s ces systems		-		ling equi	oment:		
ectures teach Heating syster Building servio Installation gu	ms and hot water s ces systems ide in buildings	supply, solar thermal	, geothermal ene		ling equi	oment:		
ectures teach Heating syster Building servic Installation gu Sanitary engin	ms and hot water s ces systems ide in buildings seering, rainwater	supply, solar thermal, utilization and waste	, geothermal ene		ling equi	oment:		
ectures teach Heating syster Building servic Installation gu Sanitary engin	ms and hot water s ces systems ide in buildings	supply, solar thermal, utilization and waste	, geothermal ene		ling equi	oment:		
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Lectures teach Heating system Building service Installation gu Sanitary engin Mechanical ar The lecture per characteristic p Course attenda Prof. DrIng. N	ms and hot water s ces systems lide in buildings leering, rainwater nd natural ventilati iod includes practi arameters that ha <b>nce time</b> (mandate leike Deck	supply, solar thermal, utilization and waste on concepts ce elements in which ve been introduced. T	, geothermal energy water disposal water disposal in the students indents practice Students practice <b>Workload</b> (in I Course attend Lecture Exercise	ergy dependente the use of nours) ance time 20 h 10 h	tly calculation of relevant of relevant of the second seco	ate or pra at standar study	ds.	
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Lectures teach - Heating syster - Building servic - Installation gu - Sanitary engir - Mechanical ar The lecture per characteristic p	ms and hot water s ces systems lide in buildings leering, rainwater nd natural ventilati iod includes practi arameters that ha <b>nce time</b> (mandate leike Deck	supply, solar thermal, utilization and waste on concepts ce elements in which ve been introduced. : pry hours – LVS) 3 LVS - - - -	, geothermal ener water disposal h the students ind Students practice <b>Workload</b> (in I Course attend Lecture Exercise Other	ergy dependente the use of nours) ance time 20 h 10 h	tly calculation of relevant of relevant of the second seco	ate or pra at standar study	ds.	60 h

Allocation to study sp - Can also be credited t - Requirements accord Study/examination ac Student research -	Differed in WS ecialization Re o study program Ing to examination regulation nievements/ examination to paper without collog s/desired learning our	ypes Juium	ring 3	Credit 3 CP Type o Lectu Languz Gern prerequisites 2-4	of teaching, ure & exe age of instr nan	, group size, if ercise ruction		
3rd semester Allocation to study sp - Can also be credited t - Requirements accord Study/examination ac Student research - Module objective Students are able - apply their com	WS ecialization Re botherefore	esponsible for modul J.N. ons ypes Juium	Recommended BA 1-4, BA 2	3 CP Type o Lectr Langua Gern prerequisites 2-4	of teaching, ure & exe age of instr nan	, group size, if <b>ercise</b> ruction	2 SWS applicable	eek hours
- Can also be credited t - Requirements accord Study/examination ac Student research - Module objective Students are able - apply their com	ng to examination regulation nievements/ examination to paper without colloop s/desired learning our	v.N.	Recommended BA 1-4, BA 2	Lecto Langua Gern prerequisites 2-4	ure & exe age of instr nan	ercise ruction		
- Requirements accord Study/examination ac Student research - Module objective Students are able - apply their com	ng to examination regulation nievements/ examination t paper without colloq	ons ypes juium	BA 1-4, BA 2	Langua Gern prerequisites 2-4	age of instr nan	ruction		
Study/examination ac Student research - Module objective Students are able - apply their com	nievements/ examination t paper without colloq s/desired learning ou	ypes Juium	BA 1-4, BA 2	2-4	tudy/exan	-in-tion - ship		
Student research - <b>Nodule objective</b> Students are able - apply their com	paper without colloq s/desired learning ou	luium			:tudy/eyan	ain ation a shin		
- Module objective Students are able - apply their com	s/desired learning ou				study/chun	nination achie	evements	
Students are able	-	tcomes:						
- apply their com	to							
<ul> <li>calculate simple</li> <li>understand the</li> </ul>	nd distinguish it from structural forms affe development and fun ess existing structures	cting the surface actionality of hist	e with the aid o	of a compute	er,		owledge	to
<ul> <li>Applied finite e</li> <li>Basic principles</li> <li>Bar constructio</li> <li>The constructio</li> </ul>	ne construction to the ement method for str of simple sheet struct is (skeleton buildings, n detail i historical load-bearir	uctural analysis ures (wall panels , etc.)						
	<b>e time</b> (mandatory ho	ours – LVS)	Workload (in	n hours)				
Course attendan		3 LVS	Course atter		Home	study		
N.N.			Lecture	30 h		, e accompan	nving	
					-	-		
			Exercise	15 h	and ex	am prepara		45 h
		- - 3 LVS	Exercise Other Total worklo	15 h	and ex	-		45 h <b>90 h</b>

Study semesterOffered in3rd semesterWS		Lecture & ex Language of inst German rerequisites	ercise	08.04.2021 Semester week hours 6 SWS				
Study semester       Offered in       Const         3rd semester       WS       /Buildi         Allocation to study specialization       Responsible for mo         -       Prof. Matthias         Can also be credited to study program       Prof. Matthias         -       Requirements according to examination regulations         Study/examination achievements/ examination types         Written examination (K2)       -         -       -         Module objectives/desired learning outcomes:         Students are able to       - transfer their technical knowledge of building const         field of skeleton construction,	ruction 3 ng Physics dule Pätzold Recommended pro BA 1-5, BA 2-5	6 CP Type of teaching Lecture & ex Language of inst German rerequisites	ercise	6 SWS				
Situ serifester     WS       Allocation to study specialization	ng Physics dule Pätzold Recommended pr BA 1-5, BA 2-5	Type of teaching Lecture & ex Language of inst German rerequisites	ercise					
Allocation to study specialization - Can also be credited to study program - Requirements according to examination regulations Study/examination achievements/ examination types Written examination (K2) - Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,	dule Pätzold Recommended pr BA 1-5, BA 2-5	Lecture & ex Language of inst German rerequisites	ercise	if applicable				
Can also be credited to study program - Requirements according to examination regulations Study/examination achievements/ examination types Written examination (K2) - Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,	Recommended pro BA 1-5, BA 2-5	Language of inst German rerequisites		Type of teaching, group size, if applicable				
- Requirements according to examination regulations Study/examination achievements/ examination types Written examination (K2) - Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,	BA 1-5, BA 2-5	German rerequisites	luction					
Study/examination achievements/ examination types Written examination (K2) - Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,	BA 1-5, BA 2-5	5						
Written examination (K2) - Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,	If applicable, weig							
- Module objectives/desired learning outcomes: Students are able to - transfer their technical knowledge of building const field of skeleton construction,		gnting of the study/exa	mination ach	ievements				
Students are able to - transfer their technical knowledge of building const field of skeleton construction,								
Students are able to - transfer their technical knowledge of building const field of skeleton construction,								
<ul> <li>founded manner and combine them in an overall so</li> <li>mathematically prove the suitability of the selected</li> <li>recognize relationships between form and design a</li> <li>integrate technical and formal aspects in complex s</li> <li>take into account economic and standard specificat drawing up a building physics planning concept for</li> </ul>	l elements and ma nd develop sensibl tructural engineer tions from the area	le designs on this k ring contexts using	a reliable					
Contents:								
Description of contents:								
Building design: Finishing components, exterior closures with window protection systems, screeds and floor coverings, floo interior finishing; ceiling claddings, functional ceilings details, timber construction; environmentally friendly Implementation planning with project reference and project/ contextual knowledge of building design/bu	r constructions, cla	adding exterior wa g interior walls, int	ll as well a erior dooi	as interior wall, rs; staircase				
Building physics:	y construction; asp inclusion of buildi		atic link wi					

Building physics:

- Basic principles of energy-saving thermal insulation – EnEV

- Basic principles of sound insulation, room acoustics and sound emission control

- Basic principles of fire protection

- Creation of a building physics planning concept for a building with preparation of a homework assignment

Course attendance time (mandatory	hours – LVS)	Workload (i	n hours)		
Prof. Matthias Pätzold	4 LVS	Course atte	ndance time	Home study	
Prof. DrIng. Meike Deck	2 LVS	Lecture	60 h	Course accompanying	
	-	Exercise	30 h	and exam preparation	90 h
	-	Other			
Total course attendance time	6 LVS	Total workload			180 h
Optional extra	-	•			
Literature					
is listed in Stud.IP					

Allocation to cours	o of study	Module name		Course code	Internal	Last updated	
Bachelor of Ar	*	Module name		BA 4-1	Internal	08.04.2021	
Study semester 4th semester	Offered in SS	Design Pro	ject	Credit points 12 CP		Semester week hours	
Allocation to study		Responsible for modu	le	Type of teaching	, group size,		
-		Tina Wallbaum, \	/-Prof.	Lecture & ex			
Can also be credite	ed to study program			Language of inst	ruction		
- Requirements acco	ording to examination re	egulations	Recommended p	German			
Requirements dece		Characterio	BA 1-1, BA 2-				
Study/examination	achievements/ examin	nation types		ghting of the study/exa	mination ach	nievements	
	rch paper with coll						
-							
Module objecti	ves/desired learni	ng outcomes:					
would object	ves/ desired learnin	ng outcomes.					
Students are a	ble to						
		tural concepts in the f	form of working	drawings (M 1.50)	and deta	iled plans (M 1·20 to	
1:1),							
	lesign and ioining r	principles and put ther	m into practice				
		gn to complex task co	-				
		ces of TBE, structural		ilding physics and f	fire protec	tion in	
the context of			chgnicering, bu	nung physics and i	ne protec		
		t exterior walls and	facades in an int	tegrated manner			
		structures for multi-sto		tegrated manner,			
		atic systems (wall-type		nanel nlates bracir	ng cores)		
		ite an integral constru		parlei plates, brach	ig cores),		
		pective of different dis	-	constructivo projo	ct in tochr	vical discussions and	
		adapted and confiden	-	constructive projec			
		AC and electrical system		abting and materia	ls handlin	a systems	
-		pment with reference					
		EEWärmeG and KWK.		live project in its e	Recution		
	S ITOITI EITEV, EEG, E						
Contents:							
- Elaboration o	of a planning conce	pt from the project BA	A 3-1 with the m	nain focus on office	buildings	/mixed uses/skeleton	
construction	under consideratic	on of urban planning, o	design, function	al, technical, buildi	ng physics	s, economic,	
energetic and	d ecological require	ements up to a solutio	n ready for exec	cution (orientation	to service	e phase 5 HOAI)	
- Development	and integration of	f structural design, fire	e protection, teo	chnical building equ	uipment, k	ouilding physics,	
each with its	own defined tasks						
Execution and	detailed planning of	of a defined partial see	ction, different	for each student as	a predon	ninantly drawn	
representation	of the building wi	th details necessary fo	or execution				
in the work pl	anning (M 1:50) an	d detail planning (M 1	L:20 to M 1:1), ii	ndependent proces	ssing of th	is partial section (e.g.	
facade, stairca	se, underground p	arking, roof,) for each	student as an ir	ndividual assignme	nt accordi	ing to examination	
regulations, no	group work						
		cess and proof of the	planning progre	ss in			
	rvised sessions		_				
		m other disciplines inv	volved in the pla	inning process, as v	vell as the	1	
				<i>,</i>			

- student's own contributions to these, which must be demonstrated and documented separately
- Presentation as a colloquium of the integrated content with reference to the architectural concept

Course attendance time (mandatory hour	rs – LVS)	Workload (in hours)				
Tina Wallbaum, V-Prof.	6 LVS	Course atte	ndance time	Home study		
Prof. Matthias Pätzold	6 LVS	Lecture	60 h	Course accompanying		
Assistant lecturer Dipl Ing. Hartmut Windels	6 LVS	Exercise	120 h	and exam preparation	180 h	
	-	Other				
Total course attendance time	18 LVS	Total workl	oad		360 h	

Literature is listed in Stud.IP

Allocation to course of study	Module name		Course	code	Internal	Last updated
Bachelor of Architecture			BA	4-2		08.04.2021
Study semester Offered in	Urban Develo	opment 2	Credit p			Semester week hours
4th semester SS	and Regional	Planning	3 CP			
Allocation to study specialization	Responsible for module					if applicable
	Prof. Ines Lüder			re & exe		
Can also be credited to study program			Germ	ge of instri <b>an</b>	uction	
Requirements according to examination rea	gulations Red	commended pre				
	B	A 3-1, BA 3-2				
Study/examination achievements/ examination	ation types If a	applicable, weigh	nting of the st	udy/exam	ination ach	ievements
Student research paper with collo	oquium					
-						
Module objectives/desired learnin	ng outcomes:					
Churchenster and alberta						
Students are able to	acological and chatial dim	oncions of h	uilt structu	roc in u	han and	rural
<ul> <li>recognize the social, economic, e environments in detail and as the</li> </ul>			unt structu	res in ur	ban and	rurai
- identify and analyze architectura			dings in th	e region	al contex	t
- systematically and justifiably dev			-	-		
districts,	1º 19-00-00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
- professionally and appropriately	incorporate the legal and	d technical d	eterminant	ts – e.g.	§34 BauG	6B – in complex
planning processes,						
- understand and assess the roles	of different parties involv	ved in planni	ng and con	structio	n (author	ities, citizens,
specialist engineers, etc.) as well						
- shape r the joint goal-oriented a	nd communicative intera	ction and she	ow appreci	ation wi	thin the f	framework of
group work in project teams,						
- apply the legal and technical det	erminants and rules in co		ing proces	ses in a i	oractice-o	oriented
		omplex plann	ing proces			Jilenteu
manner.		omplex plann	ing proces			Shenced
manner.		omplex plann				
contents:						
manner. Contents: - Study of the diversity of uses, the	e mixture of uses, their co	onflicts (e.g.	demograph	nic deve	opment)	in urban and rural
<ul> <li>manner.</li> <li>Contents:</li> <li>Study of the diversity of uses, the settlement areas (e.g. depopulat</li> </ul>	e mixture of uses, their co ion of rural areas) agains	onflicts (e.g.	demograph bund of cur	nic deve	opment) velopmer	in urban and rural hts
<ul> <li>manner.</li> <li>Contents:</li> <li>Study of the diversity of uses, the settlement areas (e.g. depopulat</li> <li>Learning urban design methods a</li> </ul>	e mixture of uses, their α tion of rural areas) agains and types of planning in ι	onflicts (e.g. It the backgro urban and ru	demograph bund of cur ral context	nic deve rent dev s, e.g. ty	opment) velopmer pes of inv	in urban and rural nts ventory, as-built
<ul> <li>Contents:</li> <li>Study of the diversity of uses, the settlement areas (e.g. depopulat</li> <li>Learning urban design methods a analysis, and application of urban</li> </ul>	e mixture of uses, their α tion of rural areas) agains and types of planning in ι	onflicts (e.g. It the backgro urban and ru	demograph bund of cur ral context	nic deve rent dev s, e.g. ty	opment) velopmer pes of inv	in urban and rural nts ventory, as-built
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Allocation to course	e of study	Module name		Course code	Internal	Last updated	
Bachelor of Ar	chitecture	Building Op	perations /	BA 4-3		08.04.2021	
Study semester 4th semester	Offered in SS		Building Law 1			Semester week hours 4 SWS	
Allocation to study	specialization	Responsible for module Prof. Dr. Ing. Mario Hanusrichter		Type of teaching, group size, if applicable Lecture & exercise			
Can also be credite	d to study program			Language of instruction German			
Requirements acco	rding to examination re	gulations	Recommended prere	equisites			
	achievements/ examination (K2) Seminar		If applicable, weighti Written examin	0 //			
			1				

#### Module objectives/desired learning outcomes:

Introduction to the construction and real estate market: The course is designed to provide an overview of the special features of the construction and real estate market. Students acquire basic knowledge of the dimension of the market, its economic significance and the forms of project management. The market participants are presented in their various functions; how these functions interact for the construction and real estate market is made clear.

Private construction law: Students are taught the basic principles of construction contract law that are necessary for them to understand project execution.

Public construction law: Students gain knowledge of public building law (urban land use planning, building code law) as well as the assessment of the approval of building projects. In addition, students are taught the basic principles for applying for building permits with the required building documents.

#### Contents:

Introduction to the construction and real estate market: Basic principles and terminology; the roles of the parties involved; models of project execution; forms of contractor assignment; service profiles of typical engineering and architectural activities; cost elements of construction; freelance activities in general; project structuring and rough scheduling

Private construction law (construction contract law): Architectural law according to BGB (German Civil Code); significance of HOAI; conclusion of a construction contract; construction contract as VOB or BGB contract; general terms and conditions; warranty according to VOB Part B and BGB; liability, reservations, obstruction, termination; overview of VOB Part C with regard to the systematics of general technical contract conditions

Public construction law: Execution of the building permit procedure; building neighbor law; urban land use planning according to BauGB, BauNVO and PlanVZ; land use and urban land use plans; distance areas; fire protection regulations; traffic safety; building projects that do not require a permit and those that do; application and building documentation regulations

Course attendance time (mandatory hou	ırs – LVS)	Workload (i	in hours)		
Prof. Dr. Ing. Mario Hanusrichter	4 LVS	Course atte	ndance time	Home study	
Assistant lecturer Dipl Ing. Christian Zumwinkel	2 LVS	Lecture	60 h	Course accompanying and exam preparation	90 h
	-	Exercise	30 h		
	-	Other			
Total course attendance time	6 LVS	Total work	oad		180 h
Total course attendance time Optional extra	6 LVS	Total work	oad		1

Bachelor of Ard	e of study	Module name		Course	code	Internal	Last updated
Chudu como d'	chitecture	Techr	nical	BA	4-4		08.04.2021
Study semester 4th semester	Offered in SS		uipment 2	Credit p 3 CP	ooints		Semester week hours 2 SWS
Allocation to study	specialization	Responsible for modu		Type of Lectu	_	group size,	if applicable
Can also be credite	d to study program	Prof. DrIng. Mei	IKE DECK		ge of instr	uction	
-	rding to oversignation rea		Recommended pr	Germ	an		
requirements acco	rding to examination reg	gulations	BA 1-5, BA 2-5	•	A 3-3		
	achievements/ examina ch paper without co		If applicable, weig	hting of the st	tudy/exan	nination ach	ievements
Aodule objectiv	ves/desired learnin	g outcomes:					
Students							
concept, - are able to dir installation, si - use the releva - are able to su	ne connection betw mension and draw f upply and disposal l ant standards and g mmarize their resu		nents of the tech nal report and co	nical buildi ommunicat	ng equi	pment an to third p	d the associated arties,
explained holis materials hand An essential co parameter stud Compliance wit	tically in the buildir ling technology. The mponent is also the dy for decision-mak th legal requiremen Act (EEWärmeG) an	omponents of heatin og context and supple e focus is on how to e e in-depth use of calc ing. Its within the framew d the Renewable Ener ce elements in which re been introduced. A	emented by the sexecute the plan ulation tools for vork of the Energy ergies Act (EEG) the students inc	aspects of l ining of the energy bal gy Saving O dependentl	ighting individ lancing a rdinanco y calcula	and election ual composition and the provide (ENEV), ate or pra	rical engineering and onents. reparation of a the Renewable ctically apply the
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characteristic p standards.	nce time (mandato	ry hours – LVS)	Workload (in h	nours)			
characteristic p standards. Course attenda	<b>nce time</b> (mandato 1eike Deck		<b>Workload</b> (in h Course attenda		Home	studv	
characteristic p standards. Course attenda Prof. DrIng. N	leike Deck	ry hours – LVS) 3 LVS 3 LVS			Home Course	study e accompa	anying
characteristic p standards. Course attenda Prof. DrIng. N	leike Deck	3 LVS	Course attenda	ance time	Course		
characteristic p standards.	leike Deck Danner	3 LVS	Course attenda Lecture	ance time 30 h 15 h	Course	accompa	

Allocation to course of study Bachelor of Architecture		Module name	Course		Internal	Last upda			
		Building	Construction		4-5		08.04.2		
itudy semester 4th semester Illocation to study -	Offered in SS specialization		<b>4</b> esponsible for module Prof. Dr Ing. Alfred Breukelman		Credit points Semeste 6 CP 6 SWS Type of teaching, group size, if applicate Lecture with exercise			week hours e	
Can also be credite -	d to study program					uction			
Requirements acco	rding to examination reg	gulations	German           Recommended prerequisites						
			BA 1-5, BA 2-5,						
Study/examination Written exami	achievements/ examina nation (K2)	ation types	If applicable, weight	ng of the st	udy/exan	nination ach	lievements		
Aodule objectiv	ves/desired learnin	g outcomes:							
Students are al	ole to								
<ul> <li>construction -</li> <li>sketch and ex</li> <li>differentiate</li> <li>analyze differ view,</li> <li>present and c heating and v</li> </ul>	- building enclosure plain construction s between and descri ent constructions o ategorize climate c entilation as well as y implement project	systems of timber co ibe the joining, const of the facade constru ontrol tasks of the b	onstruction, truction and assem ction as well as eva uilding enclosure, i	bly princi aluate sys n particul	ples of tem sol	facade co lutions fro protection	nstructio om a holis n, glare pr	n, stic point (	
design, based	on a case study.								
design, based Contents: Description of (									
Contents: Description of - Building enclo - Load-bearing - Wood constru - Building enclo - Curtain-wall f - Glass structur - Curtain walls, - Sun protectio - Special solutio	contents: osures: functional, c systems in skeletor action systems: Tim osures in timber cor acing with air space res, overhead glazin stick-system facad n systems and faca ons: Facades for en ons: Multi-layer fac	e, material procurem g es, element facades de porches	ial procurement: F iction, timber fram ent: Metal, glass, v	einforceo e constru	d concre iction, s	olid timbo			
Contents: Description of - Building enclo - Load-bearing - Wood constru - Building enclo - Curtain-wall f - Glass structur - Curtain walls, - Sun protectio - Special solutio - Special solutio - Examples of p	contents: osures: functional, c systems in skeletor action systems: Tim osures in timber cor acing with air space res, overhead glazin stick-system facad n systems and faca ons: Facades for en ons: Multi-layer fac	n construction Mater ber skeleton constru- nstruction e, material procurem g es, element facades de porches ergy generation ades, climate facade	ial procurement: F iction, timber fram ent: Metal, glass, v	einforced e constru vood, fibe	d concre iction, s	olid timbo			
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Bachelor of Architecture         Project: Construction in Existing Buildings         BA 5-1         08.04.2021           Stay sensetive St supersetive St supersetive - Can also be credited to study specialization         Responsible for module Prof. DrIng. Birgit Fraz         The of transhing, group size, if applicable - Can also be credited to study program         The of transhing, group size, if applicable - Can also be credited to study program         The of transhing, group size, if applicable - Can also be credited to study program         Recommended procepation - Can also be credited to study program         The of transhing, group size, if applicable - Can also be credited to study program         The of transhing, group size, if applicable - Can also be credited to study program         The of transhing, group size, if applicable - Can also be credited to study program         Recommended procepation - Can also be credited to study program         The of transhing, group size, if applicable           Students are according to examination achievements - Students are able to         Extended procepation - Can also be study compare appropriate options - Conception and restoration, - apply different methodical of preliminary investigation to a practical case study, compare appropriate options - for action and select a comprehensive approach to a sould on on a well-founded basis, - apply their methodical and analytical skills to new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration, - treat on dibuiling appropriately in terms of design, construction on a well-founded basis, - coordinate professional activities in teams based on the division of labor, design information flows and bring about joint solutions for concrete tasks, - coordinate professional								
Study semeter         Offered in         Project: Construction in Existing Buildings         Credit paints         Semeter week hours           12 cP         12 2 WS         12 WS         12 2 WS         12 WS         12 WS         12 WS         12 WS         12 WS         12 WS<	Allocation to course of study	Module name		Course	code	Internal	Last update	ed
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-         Prof. DrIng. Birgit Franz         Lecture & exercise           Can also be credited to study program         Recommended prerequistes         Language of nstruction           Requirements according to examination regulations         Recommended prerequistes         BA 1-1, BA 2-1, BA 3-1, BA 3-1, BA 4-1           Studyne prevention achievements/ examination types         If applicable, weighting of the study/examination achievements/           Student research paper with colloquium         Student research paper 80%, colloquium 20%           -         Version examples of existing buildings and specify criteria for their evaluation.           - derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction management and financing.           - apply their methodical and analytical skills to new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration,           - treat an old building appropriately in terms of design, construction, and preservation of historical monuments, and prepare it for further use with affordable means,           - coordinate professional activities in teams based on the division of labor, design information flows and ming about joint solutions for concrete tasks,           - compile their results in a team and present them in a colloquium.           Contents:           The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigation, to acquaint them with suitable constr		Existing Buildings Responsible for module		Credit p				veek hours
Can also be credited to study program       Image of instruction         Requirements according to examination regulations       Recommended prerquisites         Study/examination achievements/ examination types       If alpitable, weighting of the study/examination achievements         Student research paper with colloquium       If alpitable, weighting of the study/examination achievements         -       Student research paper 80%, colloquium 20%         -       -         You are achievements of existing buildings and specify criteria for their evaluation,         -       -         -       -         You for from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction management and financing,         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -	Allocation to study specialization							
German           Requirements according to examination regulations         Recommended prevensities:           Study/examination achievements/ examination types         BA 1-1, BA 2-1, BA 3-1, BA 4-1           Study/examination achievements/ examination types         If applicable, weighting of the study/examination achievements           Student research paper with colloquium         Student research paper 80%, colloquium 20%           -         -           Oddue objectives/desired learning outcomes:         Students are able to           - examine examples of existing buildings and specify criteria for their evaluation,         -           - derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction management and financing,         -           - apply different methods of preliminary investigation to a practical case study, compare appropriate options for action and select a comprehensive approach to a solution on a well-founded basis,         -           - rest an old building appropriately in terms of design, construction, and preservation of historical monuments, and prepare it for further use with afforable means,         -           - coordinate professional activities in teams based on the division of labor, design information flows and bring about joint solutions that are compatible with the structure (in terms of construction, design, financing and building oparetins) and able to implement these in the best possible way during planning and on the construction sinte. The coexistence of "old" and "new" is addressed, as	-	Prof. DrIng. Bi	rgit Franz					
Requirements according to examination regulations       Recommended preceduates: BA 1-1, BA 2-1, BA 3-1, BA 4-1         Study/examination achievements/ usamination types       If applicable, weighing of the study/examination achievements         Student research paper with colloquium       If applicable, weighing of the study/examination achievements         -       Students are able to       -         - examine examples of existing buildings and specify criteria for their evaluation,       -         - derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction management and financing,       -         - apply different methods of preliminary investigation to a practical case study, compare appropriate options for action and select a comprehensive approach to a solution on a well-founded basis,       -         - apply different methods of preliminary investigation to a practical case study, compare appropriate options for forther use with affordable means,       -         - coordinate professional activities in teams of design, construction, and preservation of historical monuments, and preservation for further use with affordable means,       -         - complet their results in a team and present them in a colloquium.       -         Contents:       -       -         The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigations, to acquaint them with suitable construction survey, investigation and evaluation methods and make them able to draw conc								
Student research paper with colloquium 20%         -         Student research paper 80%, colloquium 20%     Students are able to          - examine examples of existing buildings and specify criteria for their evaluation,         - derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction management and financing,         - apply different methods of preliminary investigation to a practical case study, compare appropriate options for action and select a comprehensive approach to a solution on a well-founded basis,          - apply their methodical and analytical skills to new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration,         - treat an old building appropriately in terms of design, construction, and preservation of historical monuments, and prepare it for further use with affordable means,         - coordinate professional activities in teams based on the division of labor, design information flows and bring about joint solutions for concrete tasks,         - compile their results in a team and present them in a colloquium.         Contents:         The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigations, to acquaint them with suitable construction survey, investigation and evaluation methods and make them able to draw conclusions that are compatible with the structure (in terms of construction, design, financing and building operations) and able to implement these in the bestoposible way during planning and on the constr	Requirements according to examination reg	ulations		-	A 4-1			
And the objectives/desired learning outcomes:           Student sare able to           • examine examples of existing buildings and specify criteria for their evaluation,           • derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction management and financing,           • apply different methods of preliminary investigation to a practical case study, compare appropriate options for action and select a comprehensive approach to a solution on a well-founded basis,           • apply different methods and analytical skills to new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration,           • trat an old building appropriately in terms of design, construction, and preservation of historical monuments, and prepare it for further use with affordable means,           • coordinate professional activities in teams based on the division of labor, design information flows and bring about joint solutions for concrete tasks,           • compile their results in a team and present them in a colloquium.           Contents:           The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigations, to acquain them with suitable construction survey, investigation and evaluation methods and make them able to draw conclusions that are compatible with the structure (in terms of construction, design, financing and building operations) and able to implement these in the best possibilities for sustainable energy efficiency retrofitting.           The task to be worked on serves to provide students with a canon of p	Study/examination achievements/ examination	If applicable, weigh	ting of the st	tudy/exar	mination ach	ievements		
Students are able to         - examine examples of existing buildings and specify criteria for their evaluation,         - derive from the results of preliminary investigations conclusions that are compatible with the structure in terms of construction, design, construction to a paractical case study, compare appropriate options for action and select a comprehensive approach to a solution on a well-founded basis,         - apply different methods of preliminary investigations new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration,         - apply their methodical and analytical skills to new planning tasks in architecture, urban planning, civil engineering, monument preservation and restoration, and preservation of historical monuments, and prepare it for further use with affordable means,         - coordinate professional activities in teams based on the division of labor, design information flows and bring about joint solutions for concrete tasks,         - compile their results in a team and present them in a colloquium.         Contents:         The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigations, to acquaint them with suitable construction survey, investigation and evaluation methods and make them able to draw conclusions that are compatible with the structure (in terms of construction, design, financing and building operations] and able to implement these in the best possibilities for sustainable energy efficiency retrofiting.         The persistent myth that "historical monuments and old buildings are always more expensive than new buildings" is to be countered by exemplary work on concrete projects and discussed	Student research paper with collor	կuium	Student resear	rch paper a	80%, co	lloquium	20%	
The task to be worked on serves to provide students with a methodical introduction to the importance of preliminary investigations, to acquaint them with suitable construction survey, investigation and evaluation methods and make them able to draw conclusions that are compatible with the structure (in terms of construction, design, financing and building operations) and able to implement these in the best possible way during planning and on the construction site. The coexistence of "old" and "new" is addressed, as is the canon of possibilities for sustainable energy efficiency retrofitting.         The persistent myth that "historical monuments and old buildings are always more expensive than new buildings" is to be countered by exemplary work on concrete projects and discussed with the help of suitable instruments.         Course attendance time (mandatory hours – LVS)       Workload (in hours)         Prof. DrIng. Birgit Franz       6 LVS       Course attendance time         N.N.       4 LVS       Lecture       25 h	<ul> <li>examine examples of existing builly derive from the results of preliminaters of construction, design, co</li> <li>apply different methods of prelimination for action and select a comprehe</li> <li>apply their methodical and analyzengineering, monument preservation of the prepare it for further use with affinite coordinate professional activities about joint solutions for concrete</li> </ul>	nary investigations nstruction managed ninary investigation nsive approach to a tical skills to new pl ation and restoratio ly in terms of design fordable means, in teams based on a tasks,	conclusions that a ment and financing to a practical case a solution on a wel lanning tasks in arc on, n, construction, an the division of lab	rre compar g, e study, co I-founded chitecture, d preserva	mpare a basis, urban ation of	appropria planning, historical	te options civil monumer	nts, and
investigations, to acquaint them with suitable construction survey, investigation and evaluation methods and make them able to draw conclusions that are compatible with the structure (in terms of construction, design, financing and building operations) and able to implement these in the best possible way during planning and on the construction site. The coexistence of "old" and "new" is addressed, as is the canon of possibilities for sustainable energy efficiency retrofitting.         The persistent myth that "historical monuments and old buildings are always more expensive than new buildings" is to be countered by exemplary work on concrete projects and discussed with the help of suitable instruments.         Course attendance time (mandatory hours – LVS)       Workload (in hours)         Prof. DrIng. Birgit Franz       6 LVS       Course attendance time         N.N.       4 LVS       Lecture       25 h       Course accompanying	Contents:							
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N N 41VS Exercise 25 h and example paration 180 h	Prof. DrIng. Birgit Franz	6 LVS	Course attenda	nce time	Course	e accompa		
	N.N.	4 LVS	Exercise	25 h	and ex	kam prepa	ration	180 h

360 h

Assistant lecturer 4 LVS Other 70 h Total course attendance time 18 LVS **Total workload** 

Optional extra

# Literature

Allocation to course	of study	Module name		Course	code	Internal	Last updat	ed
Bachelor of Are			sualization			internal	08.04.20	
Study semester 5th semester	Offered in WS		Suanzation		Credit points Ser			week hours
Allocation to study	-	Responsible for module         Type of teaching, group size, if app						
-	to study program	Prof. DrIng. Til	l Böttger		re & ex			
Can also be credite	a to study program			Language of instruction German				
Requirements acco	rding to examination	regulations	Recommended pre BA 1-1, BA 2-1					
	achievements/ exami ch paper with col		If applicable, weigh	nting of the st	tudy/exar	nination ach	ievements	
<b>Vodule objectiv</b> Students are al	ves/desired learn	ing outcomes:						
- visualize spac	e-creating constr og and digital ima	niques for the presen uctions in the comple age processing technic	x context of mater ques in a meaning	rial, color a ful way,	and ligh <sup>.</sup>	t and to re	-	hem in 3D,
		strate various types o	f presentations in	different p	oresenta	ation form	hats for	
<ul> <li>design, coord specific target</li> <li>Contents:</li> <li>A series of exert</li> </ul>	t groups.	dents the respective o	contents for prese	ntation an				lectures,
<ul> <li>design, coord specific target</li> <li>Contents:</li> <li>A series of exert</li> </ul>	t groups.		contents for prese	ntation an				lectures,
<ul> <li>design, coord specific target</li> <li>Contents:</li> <li>A series of exenting the contents of</li> <li>CAD software it</li> <li>design or bluep</li> </ul>	cises teaches stu the exercises wil s used to transfer print into 3D draw	dents the respective o	contents for prese ned and deepened ed drawings or dig tations are materia	ntation an J. ;ital 2D dra	d visual wings f	ization. D rom a pre	uring the l	rchitectural
<ul> <li>design, coord specific target</li> <li><b>Contents:</b> <ul> <li>A series of exert the contents of</li> <li>CAD software i design or bluep developed and</li> <li>The course is a templates for p press and tradet</li> </ul> </li> </ul>	cises teaches stu the exercises wil s used to transfer print into 3D draw presented for va ccompanied by ex professional prese	dents the respective of l be prepared, combin analog or image-base rings. These represent rious types of present encises to give studer entation folders, expen- ents for participation	contents for prese ned and deepened ed drawings or dig tations are materia tations. nts practice in the rt reports, exposés	ntation an d. gital 2D dra alized and use of ima s, digital le	d visual wings f showca iges and cture p	ization. D rom a pre sed with l I text to co resentatio	uring the l liminary a light. Final reate layo ons, public	rchitectural ly, a layout is ut ations in
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Literature is listed in Stud.IP

Allocation to course of study Bachelor of Architecture		Module name		Course	<b>A 5-3</b>	Internal	Last updat 08.04.2		
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5th semester llocation to study	WS specialization	Responsible for modu			6 CP 6 SV Type of teaching, group size, if appl			6 SWS	
-			Prof.DrIng.Mario Hanusrichter Lecture & exercise						
an also be credite	d to study program			Langua Gerr	age of insti nan	ruction			
equirements acco	rding to examination re	gulations	Recommended pr	erequisites					
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Allocation to course of study Module name		Course		code Internal		Last updated	
Bachelor of Architecture		Efficient		5-4		08.04.2	
Study semester Offered in	•••	Energy-Efficient Building		points		Semester	week hours
5th semester WS						4 SWS	
Allocation to study specialization -	Responsible for modu Prof. DrIng. Alfr		eukelman Type of teaching, group size, Lecture with exercise			іт арріїсарі	e
Can also be credited to study program			Langua Germ	ge of insti 1an	ruction		
Requirements according to examination	regulations	Recommended pro			A / E		
Study/examination achievements/ exam	nation types	If applicable, weig	· · · ·			ievements	
Student research paper without			0				
Module objectives/desired learn	ing outcomes:						
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<ul> <li>apply the methods and tools w according to energy efficiency</li> <li>develop and put project-specif energy efficiency within the fra</li> </ul>	criteria ic objectives and solut			accordiı	ng to the d	criteria of	
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Allocation to course	e of study	Module name		Course code	Internal	Last updated		
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Study semester 5th semester	Offered in WS + SS			Credit points 6 CP		Semester wee	week hours	
Allocation to study	specialization	Responsible for modul Entire teaching st		Type of teach Various	ing, group size	if applicable		
Can also be credite	d to study program			Language of i German	Language of instruction			
Requirements acco	rding to examination re	gulations	Recommended prere	equisites				
	achievements/ examination		If applicable, weighti	ng of the study/e	xamination acl	nievements		
Student resear	ch paper without c	colloquium						
- Module obiectiv	ves/desired learnir	ng outcomes:						
development - They integrat respective Eu Workshops: - Students argu - They design a view. - If necessary, t resolve the co Out of College: - Students desi changed - They critically goal-oriented	of the field-trip de e their knowledge ropean or non-Euro ne with confidence nd guide communi they analyze conflic onflict. gn and review lear reflect on their ow way and review th	of the cultural history opean cultural sphere and scientific reasonin icative and action-rela cts that may arise in th ning and success proc wn ways of thinking an	of the excursion of with scientific just ing in discussions w ated interaction in the group and select resses in a targeted ad behaving and ad	lestination int tification. vith experts. a group, show t and implem d manner, also dapt them if n	o the conte ving respect ent appropr o under con	xt of the for other poi iate strategie ditions that ha	es to ave	
Field trips Professional fie to 3 or 6 credit the academic of Workshops Architectural w 6 credit points Out of College Modules that of After prior con	eld trips offered by points) with semin putcome vorkshops in Germa on selected, curre an be completed a sultation with the r	f-college modules with v the study program ir nar preparation and for any and abroad, impro- ent topics in the field of and other universities (3) module representatives dit points each. It is no	n Germany and ab ollow-up, i.e. docu omptu design ever of architecture or 6 credit points e or the program o	proad of at lea imentation of hts of at least ) coordinator, it	ast 5 or 10 o the profess 5 or 10 days is possible f	ional approad (correspondi for students to	ch and ing to 3 or o	
	nce time (mandato		Workload (in ho					
Entire teaching	staff	0.1 LVS	Course attendan Lecture		ne study Irse accomp	anving		
		-	Exercise	and	exam prepa		.77 h	
Total course at	tendance time	- 0.1 LVS	Other 3 Total workload	ßh		1	.80 h	
Optional extra			<u> </u>					
Literature is listed in Stu	d.IP							

Bachelor of Architecture         IPS Architecture         BA 6-2         08.04.2021           Study seneater (b) seneater (c) seneater (c	Allocation to course	e of study	Module name		Course	code	Internal	Last update	ed
Bit Bernster   SS         Reconside for model         Production to study program           Contacts:         Entire teaching staff         Contacts:         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research paper withhout colloquium         If applicable, weighting of the study/comination achievements         If applicable, weighting of the study/comination achievements           Student research for poor new subject-specific content.         If applicable, weighting of the study/comination achievements         If applicable, achievements           Student research for your own Bachelor's thesis.	Bachelor of A	rchitecture			B	Credit points		08.04.20	021
Alteration is study acculatation         Responsible for module         Type of teaching, group size, if applicable           Can also be called to study program         Image of fractation         Image of fractation           Requirements according to examination regulations         Recommended prerequises         Image of fractation           Study/recamination achievements/examination types         If applicable, weighting of the study/examination achievements         Image of fractation           Students are able to         -         -         -         -           Outloads by program         -         -         -         -           Independently explore new subject-specific content.         -         -         -         -           In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice.         -         -         -           It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.         -         -         -           Course attendance time (mandatory hours - LVS)         Workload (in hours)         -         -         -           Entire teaching staff         0.1 LVS         Course attendance time (mandatory hours - LVS)         Workload (in hours)         -         -           Entire teaching staff         0.1 LVS         Course attendance			Arch	itecture					
Can also be credited to study program       Einite field ing stall       Lappage of instruction         German       German         Study learnination achievements/ examination regulations       Hecommended prerequiates         Study learnination achievements/ examination types       If applicable, weighting of the study/examination achievements         Study learnination achievements/ examination types       If applicable, weighting of the study/examination achievements         Students are able to       -         - molivate themselves,       -         - independently explore new subject-specific content.         Is also possible, in consultation with the support of a lecturer, have the opportunity to delve into a topic of their own choice.         It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.         Course attendance time (mandatory hours – LVS)       Workload (in hours)         Entire teaching staff       0.1 LVS       Course attendance time   Home study         -       Exercise       and exam preparation       177 h         Total course attendance time       0.1 LVS       Total workload       180 h         Optional extra       0.1 LVS       Total workload       180 h	Allocation to study		Responsible for modul	е	Type of				
Contents:  Contents:  Contents:  Contents:  Conservatementation with the support of a lecturer, have the opportunity to delve into a topic of their own choice.  It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.  Contents:  Content:  Contents:  Contents: Contents: Contents: Contents: Contents: Co			Entire teaching s	staff					
Study/coamination achievements/ examination types       If applicable, weighting of the study/examination achievements         Study the search paper without colloquium       -         -       -         Module objectives/desired learning outcomes:       -         Study the study desired learning outcomes:       -         Study the themselves,       -         -       -         -       -         Independently explore new subject-specific content.         -       -         In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice.         It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.         Course attendance time (mandatory hours – LVS)       Workload (in hours)         Entire teaching staff       0.1 LVS       Course attendance time         -       0.1 LVS       Course attendance time       177 h         -       0.1 LVS       Total course attendance time       180 h         Optional extra       180 h       0.1 LVS       Total course attendance time       180 h	-						uction		
Student research paper without colloquium         -         Module objectives/desired learning outcomes:         Students are able to         - motivate themselves;         - independently explore new subject-specific content.             In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice.         It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.             Course attendance time (mandatory hours – LVS)       Workload (in hours)         Entire teaching staff       0.1 LVS       Course attendance time       177 h         Course attendance time       0.1 LVS       Total workload       180 h         Optional extra       180 h       Optional extra       180 h	Requirements acco	rding to examination regu	llations	Recommended pi	rerequisites				
Module objectives/desired learning outcomes: Students are able to     motivate themselves,     independently explore new subject-specific content.  Contents: In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice. It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.  Course attendance time (mandatory hours – LVS) Vorkload (in hours) Entire teaching staff 0.1 LVS Course attendance time 0.1 LVS Total course attendance time 0.1 LVS Total workload	Study/examination	achievements/ examinati	ion types	If applicable, weig	ghting of the s	tudy/exam	ination ach	ievements	
Students are able to         • motivate themselves,         • independently explore new subject-specific content.         Contents:         In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice.         It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.         Course attendance time (mandatory hours – LVS)       Workload (in hours)         Entire teaching staff       0.1 LVS         Course attendance time       0.1 LVS         Course attendance time       177 h         Total course attendance time       0.1 LVS         Total course attendance time       0.1 LVS         Total course attendance time       0.1 LVS         Optionelexts       180 h	Student resea	rch paper without c	colloquium						
motivate themselves,     independently explore new subject-specific content.  Contents: In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice. It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.  Course attendance time (mandatory hours – LVS) Vorkload (in hours) Entire teaching staff 0.1 LVS Course attendance time (mandatory hours – LVS) Literature Uterature	Module objectiv	ves/desired learning	outcomes:						
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- independently explore new subject-specific content.      Contents: In this module, students, with the support of a lecturer, have the opportunity to delve into a topic of their own choice. It is also possible, in consultation with the first examiner, to do more in-depth research for your own Bachelor's thesis.      Course attendance time (mandatory hours – LVS)     Workload (in hours)      Entire teaching staff     0.1 LVS     Course attendance time     0.1 LVS     Total workload     Total workload     Norkload	motivato tho	meduce							
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thesis.          Course attendance time (mandatory hours - LVS)       Workload (in hours)         Entire teaching staff       0.1 LVS       Course attendance time         -       Lecture       Home study         -       Lecture       Course accompanying         and exam preparation       177 h         Total course attendance time       0.1 LVS       Total workload         0.1 LVS       Total workload       180 h         Optional extra       Jaho       180 h			support of a lectu		pponunity				
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Entire teaching staff       0.1 LVS       Course attendance time       Home study         -       Lecture       Course accompanying and exam preparation       177 h         -       Other       3 h       180 h         Optional extra       Image: Course accompanying and exam preparation       180 h	thesis.								
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-     Exercise     and exam preparation     177 h       -     Other     3 h     180 h       Optional extra     0.1 LVS     Total workload     180 h	Entire teachin	g staff	0.1 LVS	Course attend	lance time	Homes	study		
Interview     Interview       -     Other     3 h       Total course attendance time     0.1 LVS     Total workload       Optional extra     180 h			-						477.
Total course attendance time       0.1 LVS       Total workload       180 h         Optional extra       Image: Constraint of the second sec			-			and exa	am prepa	ration	1// h
Optional extra Literature	Total actives -+	tondonco tirro	-						100 -
Literature		lendance time	U.1 LVS	TOTAL MOLKIOS	iu				Ιδυ Π
	optional extra								
is listed in Stud.IP	Literature								
	is listed in Stu	d.IP							

Allocation to course	ation to course of study Module name			Course	code	Internal	Last updated	
Bachelor of Are	chitecture	IF	ps	BA	6-3		08.04.2021	
Study semester 6th semester	Offered in SS		K plus	Credit	points		Semester week n/a	hours
Allocation to study		Responsible for modu	-		f teaching,	, group size,	if applicable	
-		HAWK plus		Cours	se-depe	ndent		
Can also be credite	d to study program				ge of instr	ruction		
- Requirements acco	rding to examination regu	lations	Recommended p	Germ	nan			
Requirements acco			Recommended p	rerequisites				
Study/examination	achievements/ examinat	ion types	If applicable, wei	ghting of the s	tudy/exan	nination ach	ievements	
Course-depend	lent							
-								
Module objectiv	ves/desired learning	; outcomes:						
<ul> <li>Thinking and</li> <li>Leadership sk</li> <li>Communicati</li> <li>Social and soc</li> <li>Media skills</li> </ul>	on and individual ski cietal skills ary specialized know	reneur Ils	PS)					
			1					
	nce time (mandator		Workload (in					
HAWK plus		6 LVS	Course attend	dance time	Home			
		-	Lecture			e accompa		20 h
		-	Exercise		andex	am prepa		1011
Total course at	tandanca time	-	Other Total workloa	60 h				00 L
Optional extra		6		au			18	80 h
optional extra								
Literature								
is listed in Stu	d.IP							

Allocation to course	e of study	Module name		Course	code	Internal	Last updated		
Bachelor of Arc	chitecture	Bachelo	or's Thesis	BA	6-4		08.04.2022	1	
Study semester 6th semester	Offered in WS + SS	Dacher	5 1116515	Credit p			Semester week hours		
Allocation to study		Responsible for modul Entire teaching st			Type of teaching, group size, if applicable				
Can also be credited	d to study program			Langua Germ	ge of insti I <b>an</b>	ruction			
	rding to examination reg		Recommended pr	erequisites					
	amination regulatio								
Study/examination Final thesis wit	achievements/ examinat h colloquium	ion types	If applicable, weig	hting of the s	tudy/exar	nination ach	ievements		
- Module objectiv	ves/desired learning	outcomes:							
Students - are able to cla the specialist systematically - are able to ind solutions to co for action, - critically refle - are able to pr - are able to pr audience outs	issify a clearly define knowledge acquired investigate it with t dependently develop omplex questions, e ct on their professio esent scientific findi esent complex issue	ed problem from arc I in the course of stu the aid of subject-spo p their own research ven in a new or unfa nal actions with rega ngs and results in a c s in architecture in a an audience with the	dy in state-of-th ecific (research) questions, forn miliar professio ard to their own comprehensive, confident and u	ne-art resea methods, n hypothes nal context social and structured understanc	es and c c, and cr ethical and cri lable wa	l professio derive suit itically ev responsib tically que ay, both to	onal practice able, creativ aluate option ility, estioning man	and ve ns	
Contents:	preparation of a Bac	helor's thesis in acco	ordance with the	e evaminat	ion regi	ulations as	nart of the	final	
examination of - Independent - Doing compre - Development - Work on topic - Work on topic	the course of study organization and dev hensive literature re of drafts from a sub cs related to building cs related to building	velopment of the wo esearch on the respe ject area in the field g construction	ork flow ective topic with of architecture	classificati	_				
Course attenda	<b>nce time</b> (mandator	ry hours – LVS)	Workload (in h	nours)					
First examiner		0.3 LVS	Course attend	ance time	Home	-			
Second examin	er	0.1 LVS	Lecture			e accompa			
		-	Exercise		and ex	am prepa	iration 3	350 h	
		-	Other	10 h					
Total course at	endance time	0.4 LVS	Total workloa	d			3	360 h	
Optional extra									
is listed in Stu	d.IP								

September, 2021

This Module Handbook has been translated from German to English by Johnson Translations, Hildesheim.

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