

## Module Handbook

# Master of Architecture

Valid since winter semester  
2019/20

Last updated April 2021

## Preface:

The Master of Architecture study program aims to provide successful graduates with advanced 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 broad and integrated advanced 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. They are able to comprehensively apply theories, principles and methods of the field and constantly adapt their knowledge and competence to ongoing changing requirements. The knowledge, skills and competences the students acquire can be applied to work out solutions to problems in the field of architecture as a whole largely independently.

The Master's degree awarded upon completion of the program is the second professional qualifying degree at Level 2 of the *Qualifications Framework for German Higher Education Qualifications*. A good degree qualifies the student to enter advanced studies at Level 3 (doctoral programs/PhD). The completion of a Master's study program with a preceding Bachelor's study program in architecture with a total of 10 standard semesters is an essential prerequisite for being able to use, according to the relevant legal regulations of the German states, the protected professional title of "architect".

This also requires registration in the list of architects in one of the chambers of architects. Please note that students enrolled in the Master's program in Architecture who have not completed a preceding Bachelor's degree in Architecture may not be eligible to join the list of architects.

The master's program in architecture consists of a major with a total of 60 credit points and a minor (elective) with a total of 30 credit points. With the Master's thesis and the associated preparatory module (together 30 credit points), a total of 120 credit points is required.

The major can be chosen from the field of "Architecture" or "Building in Existing Contexts / Preservation of Historical Monuments".

This means that all the modules in the chosen major are compulsory modules. The minor can be made up of any modules from the major not selected or from the other electives.

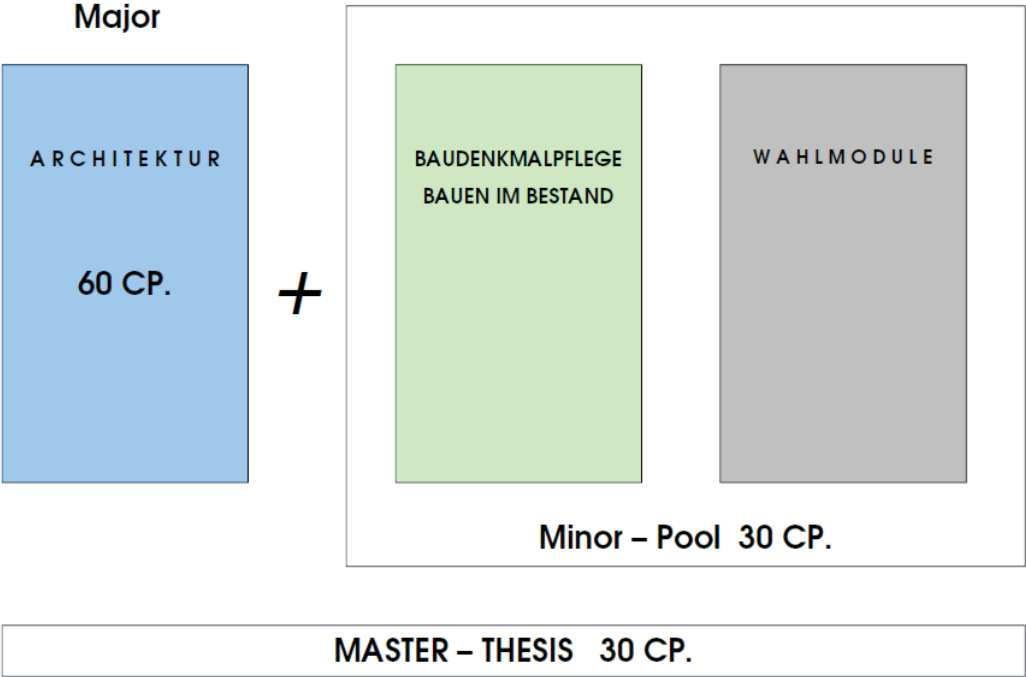
The student workload is listed in the module descriptions at the top of the *semester hours section*. The teaching capacity listed below does not necessarily correspond to this; if more weekly teaching hours are listed there, then this means a division into smaller, possibly parallel working groups.

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.

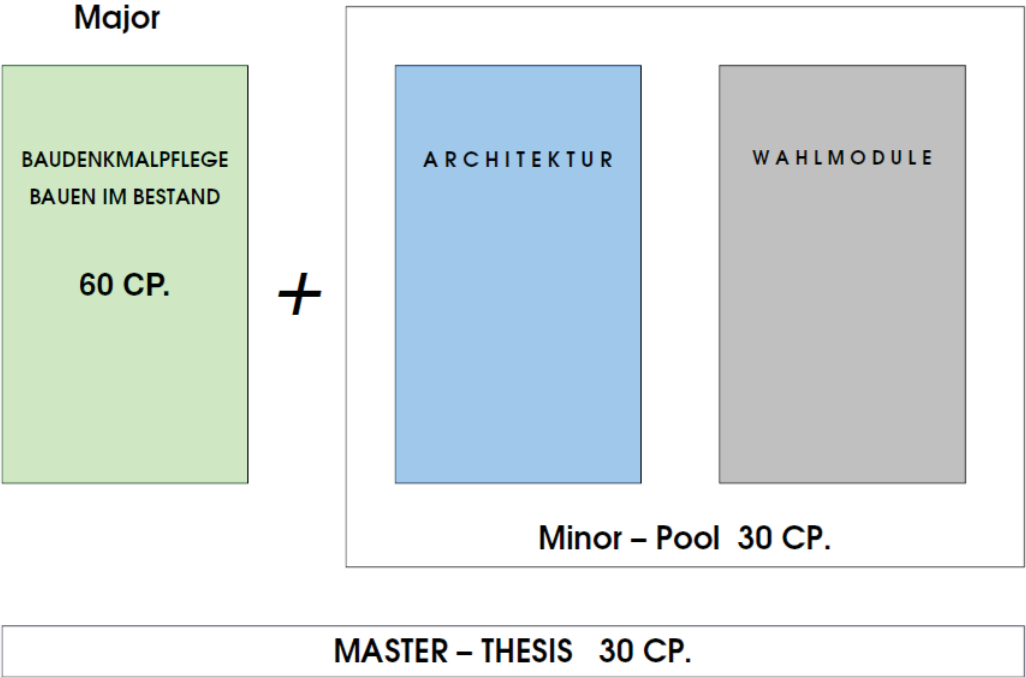
As a rule, the modules are offered either in the winter or summer semester, as indicated in the module descriptions; this also applies in particular to the elective modules. This means that students can only start their studies in the winter semester; if they enroll in the summer semester, it is generally not possible to complete their study program within the standard period of study.

Students are strongly advised to seek academic counseling, especially to ensure a combination of modules that makes sense. Study advising is also recommended with regard to later professional practice and a possible further qualification.

Overview for the "Architecture" major:



Overview for the "Building in Existing Contexts / Preservation of Historical Monuments" major:



Appendix 3: Study plan for a Master's degree in Architecture

Course code	Module name	Credit points per semester				Classroom attendance	Home study	Workload	Type of examination
		1	2	3	4				

Major in "Architecture":

MAV-01	Project: Building in an urban context	12				120	240	360	PA
MAV-02	Project: Draft/ Design / Build		12			120	240	360	PA
MAV-03	Project: Sustainable Building			12		120	240	360	PA
MAV-04	Special topics for drafting			6		60	120	180	StA
MAV-05	Special forms of representation and design	6				90	90	180	StA
MAV-06	Special topic for building operations		6			60	120	180	StA
MAV-07	Academic research	6				60	120	180	StA
Sum		24	18	18					

Major in "Building in Existing Contexts / Preservation of Historical Monuments"

MAV-11	Project 1: Building and Conservation		12			120	240	180	PA
MAV-12	Project 2: Building and Conservation			12		120	240	180	PA
MAV-13	Cultural history of building and usage	6				60	120	180	Ref
MAV-14	Building Archeology		6			120	60	180	StA
MAV-15	Design in Existing Buildings / Preservation of Historical Monuments	6				60	120	180	StA
MAV-16	Historical Building Research			6		120	60	180	StA
MAV-17	Preservation of Historical Monuments Theory		6			60	120	180	StA
MAV-18	Academic research	6				60	120	180	StA
Sum		18	24	18					

Electives

MAV-61	Climate-friendly building	6				60	120	180	StA
MAV-62	Energy-Optimized Building: Building Enclosure		6			60	120	180	StA
MAV-63	Energy-Optimized Building: Building services			6		60	120	180	StA
MAV-64	Constructive Design		6			60	120	180	StA
MAV-65	Design, Visualization	6				90	90	180	StA
MAV-66	Open Space Planning			6		60	120	180	StA
MAV-67	Construction Management		6			60	120	180	StA
MAV-68	Urban Development History	6				60	120	180	K2
MAV-69	Historical Building Forms and Constructions		6			60	120	180	K2
MAV-70	Architecture Theory			6		90	90	180	StA
MAV-71	Architecture Workshop			6		3	177	180	StA
Sum		18	24	24					

Final Thesis

MA 4-1	Module for Preparation of the Master's Thesis				6	3	177	180	StA
MA 4-2	Master's Thesis				24	6	594	600	AA
Sum									

Sum

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Explanation of the abbreviations

- AA Final thesis with colloquium
- mP Oral examination
- K2 2-hour written exam
- Ref Seminar paper
- StA Student research paper with / without colloquium
- PA Project work with colloquium

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Project: Building in an Urban Context</b>		Course code <b>MAV-01</b>	Internal	Last updated 08.04.2021	
Study semester <b>7th semester</b>	Offered in <b>WS</b>	Responsible for module <b>Prof. Ines Lüder</b>		Credit points <b>12 CP</b>		Semester week hours <b>10 SWS</b>	
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types <b>Project work with colloquium</b> -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p><b>Students</b></p> <ul style="list-style-type: none"> <li>- can describe and explain in detail the urban and rural environment as well as its development in the context of social, economic, ecological and spatial relationships,</li> <li>- can analyze and specify urban structural characteristics (genius loci) as well as details of building development - also in the regional environment,</li> <li>- are able to develop urban planning approaches at selected locations in the context of complex urbanistic topics, to apply known urban planning rules and to outline architectural solutions for them,</li> <li>- are able to develop planning and design strategies in areas with building law (statutory urban land use planning) and in the context of built-up areas and districts (e.g. in accordance with §34BauGB),</li> <li>- are able to classify and apply the legal and technical determinants and rules in complex planning processes.</li> </ul> <p>Students are able to work in teams (with one another). They are able to assess the different planning and construction parties (authorities, citizens, specialist engineers, etc.) as well as their influences as stakeholders on the planning and construction of existing buildings.</p>							
<b>Contents:</b>							
<ul style="list-style-type: none"> <li>- Structures of use and their change as well as conflicts in urban and rural settlement areas (e.g. depopulation of rural areas) against the background of current developments (e.g. demographic development)</li> <li>- Urban design methods and planning types in urban and rural contexts, e.g. types of inventory, inventory analysis as well as the application of e.g. the topics of urban framework planning with reference to the regional characteristics of the development also with regard to their appearance structures</li> <li>- Design tasks in existing urban development - also in rural areas, studies and designs for insertions ('implants') in the context of existing settlements and characteristic development structures</li> <li>- Planning law based on the BauGB, i.e. projects with or without building law and other urban planning rules in conjunction with building code requirements for urban planning and the resulting architectural building design</li> </ul>							
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)				
Prof. Ines Lüder		6 LVS	Course attendance time		Home study		
N.N.		2 LVS	Lecture	60 h	Course accompanying and exam preparation		
N.N.		4 LVS	Exercise	60 h			
		-	Other				
<b>Total classroom time</b>		<b>12 LVS</b>	<b>Total workload</b>			<b>360 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Project: Draft/ Design / Build</b>		Course code <b>MAV-02</b>	Internal	Last updated <b>08.04.2021</b>	
Study semester <b>8th semester</b>	Offered in <b>SS</b>			Credit points <b>12 CP</b>		Semester week hours <b>10 SWS</b>	
Allocation to study specialization <b>Architecture</b>		Responsible for module <b>Prof. Dr.-Ing. Till Böttger</b>		Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites <b>MAV-01</b>			
Study/examination achievements/ examination types <b>Project work with colloquium</b> -				If applicable, weighting of the study/examination achievements <b>70% project work, colloquium 30%</b>			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to develop and construct designs that are created in the area of special topics,</li> <li>- are able to optimize predominantly technical and constructive designs in the interaction of function, technical requirements, material and construction, in form and design intention down to the last detail,</li> <li>- can methodically transfer the complex relationships between functional, aesthetic and technical requirements in detail into holistic solutions,</li> <li>- are able to implement and critically assess project requirements in dialog with technical planners and special experts.</li> </ul>							
<b>Contents:</b>							
<p>Topic-related problems are worked on and supervised as design and construction tasks in order to practice alternative approaches/planning strategies as well as the necessary services to be provided in a practical manner. The content of the projects is specifically related to construction. Analysis and evaluation are part of the process.</p>							
<b>Course attendance time (in mandatory hours - LVS)</b>				<b>Workload (in hours)</b>			
Prof. Dr.-Ing. Till Böttger		8 LVS		Course attendance time		Home study	
Dipl.-Ing. Ulrike Knauer		6 LVS		Lecture	60 h	Course accompanying and exam preparation	
Assistant lecturer Dipl.-Ing. Natalie Herger		2 LVS		Exercise	60 h		
		-		Other		240 h	
<b>Total classroom time</b>		<b>16 LVS</b>		<b>Total workload</b>			<b>360 h</b>
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Project: Sustainable Building</b>		Course code <b>MAV-03</b>	Internal	Last updated 08.04.2021	
Study semester <b>9th semester</b>	Offered in <b>WS</b>	Responsible for module <b>Prof. Dr.- Ing. Alfred Breukelman</b>		Credit points <b>12 CP</b>		Semester week hours <b>10 SWS</b>	
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations			Recommended prerequisites <b>MAV-01, MAV-02</b>				
Study/examination achievements/ examination types <b>Project work with colloquium</b> -			If applicable, weighting of the study/examination achievements				
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to describe and explain the holistic strategies and planning principles of sustainable building,</li> <li>- are able to comprehensively present certification and evaluation systems in the field of sustainable building, in particular according to DGNB and BNB, and to classify them in the planning principles and holistic strategies,</li> <li>- are able to work on complex tasks in the field of sustainable construction according to conceptual, methodical and scientific principles,</li> <li>- are able to assess building concepts according to the criteria of sustainable construction on the basis of ecological, economic and socio-cultural goals and requirements,</li> <li>- are able to develop project-specific objectives and solution strategies according to the criteria of sustainability and put them into practice in a project,</li> <li>- are able to test and develop their own team, conflict, moderation and leadership skills in the context of a project. They are also able to conduct project discussions in English.</li> </ul>							
<b>Contents:</b>							
<ul style="list-style-type: none"> <li>- Guidelines and working aids, e.g. the BMVBS guide to sustainable building</li> <li>- National and international certification and assessment procedures, e.g. DGNB, BNB, LEED, BREEAM</li> <li>- Quality criteria of sustainable construction: ecological, economic, socio-cultural, technical quality, process quality, site quality</li> <li>- Environmentally compatible materials, construction and building services</li> <li>- Life cycle analysis and economic efficiency (LCCA and LCC)</li> <li>- Processing of a complex planning task with a focus on sustainability, taking into account ecological, economic, functional, social, design and technical requirements</li> <li>- Project simulation, i.e. practical relevance through orientation to the overall service profile of the HOAI (§ 15)</li> <li>- Optional: Examination to become a Registered Professional of the DGNB</li> </ul>							
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>				
Prof. Dr.- Ing. Alfred Breukelman		6 LVS	Course attendance time		Home study		
N.N.		4 LVS	Lecture	75 h	Course accompanying and exam preparation		
Assistant lecturer		2 LVS	Exercise	45 h			240 h
		-	Other				
<b>Total classroom time</b>		<b>12 LVS</b>	<b>Total workload</b>			<b>360 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							



Allocation to course of study <b>Master of Architecture</b>		Module name <b>Special Topics in Drafting</b>		Course code <b>MAV-04</b>	Internal	Last updated 08.04.2021	
Study semester <b>9th semester</b>	Offered in <b>WS</b>	Responsible for module <b>N.N.</b>		Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>	
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types <b>Student research paper without colloquium</b> -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to recognize qualities and deficits of the built environment and place them in an overall technical-aesthetic and sociocultural context,</li> <li>- are able to evaluate limits and opportunities for preserving and modifying the built environment in relation to economic and environmental impacts,</li> <li>- are able to justifiably derive holistic design decisions on this basis at the various planning levels from the concept to the detail in / on and with the (listed) existing building,</li> <li>- are able to adopt an architectural stance in dealing with evolved historical structures.</li> </ul>							
<b>Contents:</b>							
<p>Selected topics of building design in (listed) buildings will be presented in the lectures, examples will be selected and analyzed by the participants and discussed in the plenum.</p> <p>While completing design tasks, students work on and supervise topic-related problems in order to practice alternative approaches/planning strategies as well as the necessary services to be rendered.</p>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
N.N.		6 LVS		Course attendance time		Home study	
		-		Lecture	15 h	Course accompanying and exam preparation	
		-		Exercise	45 h		
		-		Other			
<b>Total classroom time</b>		<b>6 LVS</b>		<b>Total workload</b>		<b>120 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Special Forms of Representation</b>		Course code <b>MAV-05</b>	Internal	Last updated 08.04.2021
Study semester <b>7th semester</b>	Offered in <b>WS</b>	Responsible for module <b>Prof. Dr.- Ing. Till Böttger</b>		Credit points <b>6 CP</b>	Semester week hours <b>4 SWS</b>	
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations			Recommended prerequisites			
Study/examination achievements/ examination types <b>Student research paper with colloquium</b> -			If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to make structural concepts and architectural attitudes visible through special representations in their conceptual design,</li> <li>- are able to analyze selected construction methods and architectural concepts with the help of analog and digital design media,</li> <li>- are able to represent architectural concepts in diagrams and charts,</li> <li>- are able to communicate complex relationships graphically in a simple way,</li> <li>- are able to deal with current developments and forms of expression in the context of artistic and media-experimental representations and to include these in their professional actions,</li> <li>- are able to independently deepen and expand their knowledge of analog and digital display methods,</li> <li>- are able to interact in a socially competent manner within the framework of group work and to perfect their rhetorical skills in ongoing presentations.</li> </ul>						
<b>Contents:</b>						
<p>A series of exercises teaches students the relevant content for understanding and classifying representations in diagrammatic and conceptual form. During the lectures, the contents of the exercises will be prepared, combined and deepened.</p> <p>This is based on scientific research and analysis in which selected architectures/ spatial typologies/ spatial sculptures and their conception and construction methods are examined and evaluated. In the analyses, in the sense of deduction, the architectures or spaces and the construction methods are broken down into their constituent parts and the constituent parts are named and presented. The essential aspects of the conception of the architectural or spatial examples are brought together by the new visualizations.</p> <p>In overview, a number of concepts become visible in the new visualizations, which again generate a start for new architectural considerations.</p>						
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>			
Prof. Dr.- Ing. Till Böttger		4 LVS	Course attendance time		Home study	
		-	Lecture	80 h	Course accompanying and exam preparation 90 h	
		-	Exercise	10 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Special Topics for Building Operations</b>		Course code <b>MAV-06</b>	Internal	Last updated 08.04.2021	
Study semester 8th semester	Offered in SS			Credit points 6 CP		Semester week hours 4 SWS	
Allocation to study specialization Architecture		Responsible for module N.N.		Type of teaching, group size, if applicable Lecture & exercise			
Can also be credited to study program Master of Architecture				Language of instruction German			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types Student research paper without colloquium -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
Students							
<ul style="list-style-type: none"> <li>- are able to differentiate and characterize different types of construction contracts,</li> <li>- are able to derive the basic principles of special forms of contract in the construction industry from their own specially developed planning and application principles,</li> <li>- are able to manage architectural and civil engineering services to characterize the basis for contract design in a results-oriented manner,</li> <li>- are able to implement the aforementioned, architecture-related skills in the complex context of planning construction projects and, in particular, evaluate them during their execution.</li> </ul>							
<b>Contents:</b>							
<ul style="list-style-type: none"> <li>- Development of the basis with seminar exercises on: Contract drafting and enterprise deployment forms of special contractor deployment forms in construction, classification of legal-related and subject-related contract content Implementation of the planning process during construction using special contract forms in the workflow organization of the construction site Evaluation and monitoring of organizational and process plans as well as control of planner and execution services, quality assurance and monitoring, schedule management and control instruments</li> </ul>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Assistant lecturer Dipl.-Ing. Christian Zumwinkel		4 LVS		Course attendance time		Home study	
		-		Lecture	20 h	Course accompanying and exam preparation 120 h	
		-		Exercise	40 h		
		-		Other			
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>			<b>180 h</b>
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Academic Research</b>		Course code <b>MAV-07</b>	Internal	Last updated 08.04.2021	
Study semester <b>7th semester</b>	Offered in <b>WS</b>	Responsible for module <b>N.N.</b>		Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>	
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types <b>Seminar paper</b> -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to design academic work independently and systematically, to carry it out in a goal-oriented and results-oriented manner, and to document the results of their work in writing in a clearly structured manner,</li> <li>- are able to apply the methods of academic work to both smaller and more comprehensive tasks (e.g. the Master's thesis) and transfer them to areas of professional practice, for example in architectural offices, companies or public authorities,</li> <li>- are able to independently and efficiently control and further develop their individual learning and work processes.</li> </ul>							
<b>Contents:</b>							
<p>Basic principles of academic research/writing</p> <ol style="list-style-type: none"> <li>1. Characteristics of academic research/writing</li> <li>2. The stages of academic writing – from initial orientation to the submission of the finished text</li> <li>3. Typical structure of an academic paper</li> <li>4. Linguistic and formal requirements for texts</li> </ol> <p>Useful strategies and techniques for successful academic work</p> <ul style="list-style-type: none"> <li>- Writing techniques for collecting ideas, formulating and narrowing down topics</li> <li>- Working techniques for structuring materials, planning writing projects</li> <li>- Effective research and reading strategies, writing techniques for critically developing content, understanding citation rules</li> <li>- Guiding questions and strategies for the systematic revision of texts</li> </ul>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Assistant lecturer Jana Zegenhagen		4 LVS		Course attendance time		Home study	
		-		Lecture	20 h	Course accompanying and exam preparation	
		-		Exercise	40 h		
		-		Other			
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>		<b>180 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Project: Building in Existing Contexts 1</b>		Course code <b>MAV-11</b>	Internal	Last updated 08.04.2021
Study semester <b>8th semester</b>	Offered in SS			Credit points 12 CP	Semester week hours 10 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>		Responsible for module <b>Prof. Dr.-Ing. Birgit Franz</b>		Type of teaching, group size, if applicable <b>Seminar and individual/group supervision</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations			Recommended prerequisites <b>MAV-13, MAV-15</b>			
Study/examination achievements/ examination types <b>Project work with colloquium</b> -			If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to classify the heritage of the built environment and discuss issues related to historic preservation,</li> <li>- are able to interpret the relationships between people and buildings and between buildings and their surroundings,</li> <li>- are able to explain the special requirements when dealing with historical monuments,</li> <li>- are able to penetrate and work through the specific complexity of a task,</li> <li>- are able to compare information or methods and formats and apply them in a planned and targeted manner in a team based on the division of labor,</li> <li>- are able to make a differentiated analysis and assessment of complex problems that are given or need to be detected,</li> <li>- are able to independently develop appropriate action strategies to integrate divergent factors,</li> <li>- are able to transfer holistic design solutions and perspective thinking into their action strategies for planning in architecture, urban planning, civil engineering, monument preservation and restoration.</li> </ul>						
<b>Contents:</b>						
<p>Classical lecture units in the context of the specific assignment on an exemplary case study:</p> <ul style="list-style-type: none"> <li>- Special topics of structural change or practical preservation, for example, building for housing, service, education, health, industry, agriculture, sports</li> <li>- Special topics on remodeling - repurposing - reinterpretation, for example, for specific time periods</li> </ul> <p>Supervision:</p> <ul style="list-style-type: none"> <li>- of exercises for the targeted collection of information, its preparation and communication</li> <li>- of individual or group work to complete the project tasks</li> <li>- of the mid-term and final presentation</li> </ul>						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Prof. Dr.-Ing. Birgit Franz		5 LVS	Course attendance time		Home study	
Assistant lecturer Dipl.-Ing. Sonja Tinney		6 LVS	Lecture	40 h	Course accompanying and exam preparation	
		-	Exercise	20 h		
		-	Other	60 h		
<b>Total classroom time</b>		<b>11 LVS</b>	<b>Total workload</b>			<b>360 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Project: Building in Existing Contexts 2</b>		Course code <b>MAV-12</b>	Internal	Last updated 08.04.2021
Study semester <b>9th semester</b>	Offered in WS			Credit points 12 CP	Semester week hours 10 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>		Responsible for module Prof. Dr.-Ing. Birgit Franz		Type of teaching, group size, if applicable <b>Seminar and individual/group supervision</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations				Recommended prerequisites <b>MAV-11, MAV-13, MAV-15</b>		
Study/examination achievements/ examination types <b>Project work with colloquium</b> -				If applicable, weighting of the study/examination achievements <b>Project work 80%, colloquium 20%</b>		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to classify the heritage of the built environment and discuss issues related to historic preservation,</li> <li>- are able to interpret the relationships between people and buildings and between buildings and their surroundings,</li> <li>- are able to explain the special requirements when dealing with historical monuments,</li> <li>- are able to penetrate and work through the specific complexity of a task,</li> <li>- are able to compare information or methods and formats and apply them in a planned and targeted manner in a team based on the division of labor,</li> <li>- are able to make a differentiated analysis and assessment of complex problems that are given or need to be detected,</li> <li>- are able to independently develop appropriate action strategies to integrate divergent factors,</li> <li>- are able to transfer holistic design solutions and perspective thinking into their action strategies for planning in architecture, urban planning, civil engineering, monument preservation and restoration.</li> </ul>						
<b>Contents:</b>						
<p>Classical lecture units in the context of the specific assignment on an exemplary case study:</p> <ul style="list-style-type: none"> <li>- Special topics of structural change or practical preservation, for example, building for housing, service, education, health, industry, agriculture, sports</li> <li>- Special topics on remodeling - repurposing - reinterpretation, for example, for specific time periods</li> </ul> <p>Supervision:</p> <ul style="list-style-type: none"> <li>- of exercises for the targeted collection of information, its preparation and communication</li> <li>- of individual or group work to complete the project tasks</li> <li>- of the mid-term and final presentation</li> </ul>						
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)		
Prof. Dr.-Ing. Birgit Franz		3 LVS	Course attendance time		Home study	
Assistant lecturer		6 LVS	Lecture	40 h	Course accompanying and exam preparation	
Assistant lecturer		3 LVS	Exercise	20 h		
		-	Other	60 h		
<b>Total classroom time</b>		<b>12 LVS</b>	<b>Total workload</b>			<b>360 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Cultural History of Building and Usage</b>		Course code <b>MAV-13</b>	Internal	Last updated 08.04.2021
Study semester 7th semester	Offered in WS			Credit points 6 CP	Semester week hours 4 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>		Responsible for module Prof. Dr.-Ing. Birgit Franz		Type of teaching, group size, if applicable Seminar		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction German		
Requirements according to examination regulations			Recommended prerequisites			
Study/examination achievements/ examination types Seminar paper -			If applicable, weighting of the study/examination achievements Written work 60%, oral report 25%, presentation 15%			
<b>Module objectives/desired learning outcomes:</b>						
Students						
<ul style="list-style-type: none"> <li>- are able to outline the causes and effects of structural change on the preservation of cultural property,</li> <li>- are able to reproduce concepts and discourses concerning the potential for the further use and remodeling as well as the potential for the deconstruction of buildings and sites,</li> <li>- are able to name existing national and international institutions, funding and research landscapes,</li> <li>- are able to outline endogenous and ephemeral opportunities and possibilities in our society,</li> <li>- are able to classify ideas of goals and design developed in an inter-/transdisciplinary way in the context of societal diversity,</li> <li>- are able to deal with different problem situations in a methodologically sound and interdisciplinary open manner,</li> <li>- are able to develop chains of argumentation for constructional objectives and to represent these also in the context of conflicts of interest in planning in architecture, urban planning, civil engineering, preservation of historical monuments and restoration.</li> </ul>						
<b>Contents:</b>						
Seminar units on:						
<ul style="list-style-type: none"> <li>- Structural change - monument change in rural and urban areas</li> <li>- Reconstruction - Repurposing - Reinterpretation</li> <li>- Current discourses on theory and practice</li> </ul>						
Exercise units on:						
<ul style="list-style-type: none"> <li>- Selected issues and case studies in rural areas (small and medium-sized towns, villages, outskirts), in cities (big city, city of millions)</li> </ul>						
a)						
b)						
of different regions in the Federal Republic of Germany, but also in European and non-European areas.						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Prof. Dr.-Ing. Birgit Franz		4 LVS	Course attendance time		Home study	
		-	Lecture	40 h	Course accompanying and exam preparation 120 h	
		-	Exercise	15 h		
		-	Other	5 h		
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
Possible field trip(s)						
<b>Literature</b>						
is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Building Archeology</b>		Course code <b>MAV-14</b>	Internal	Last updated 08.04.2021
Study semester <b>8th semester</b>	Offered in <b>SS</b>	Responsible for module <b>N.N.</b>		Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>				Type of teaching, group size, if applicable <b>Seminar and individual/group supervision</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations			Recommended prerequisites			
Study/examination achievements/ examination types <b>Project work without colloquium</b> -			If applicable, weighting of the study/examination achievements <b>Project work 80%, colloquium 20%</b>			
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to apply their professional knowledge of historic preservation issues and theory to aspects of practical historic preservation,</li> <li>- are able to relate questions of architectural archaeology (excavation) to practical professional challenges of historical building research by means of case studies, discuss them and outline possible solutions.</li> <li>- are able to perform all steps of archaeological field documentation in small group work,</li> <li>- are able to reliably document the results of written and drawn work using professional methods,</li> <li>- are able to comprehensively consider the manifold aspects of archaeological excavation activities regarding the question of monument preservation (e.g. preliminary investigation in building renovations or necessity of archaeological measures in preparation for construction in order to establish planning security) in order to better assess special requirements in later professional practice.</li> </ul>						
<b>Contents:</b>						
<p>A teaching excavation is offered at a suitable object (e.g. church or castle) in close cooperation with the Lower Saxony State Office for the Preservation of Monuments. The objects date from the Middle Ages or the early modern period, so that the context to the preservation of historical monuments is given.</p> <p>The students will perform all steps of an archaeological field documentation (analog and digital). As non-archaeologists, students should be specifically introduced to the variety of archaeological excavation activities in order to be better able to assess the tasks / requirements that may be asked of them in their future professional field (e.g., consulting external experts).</p> <p>The course will be conducted as work in (small) groups.</p> <p>Supervision is provided on site in (small) groups or one-on-one, and a short field trip is offered on a case-by-case basis.</p> <p>Special feature of the organization:</p> <p>The course takes place as a block class at the end of the lecture-free period of the summer semester, during the last two weeks before the start of the regular lecture period of the winter semester.</p>						
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>			
Assistant lecturer Dipl.-Ing. Markus Blaich		4 LVS	Course attendance time		Home study	
	-		Lecture	20 h	Course accompanying and exam preparation 60 h	
	-		Exercise	100 h		
	-		Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
Field trip						
<b>Literature</b> is listed in Stud.IP						



Allocation to course of study <b>Master of Architecture</b>		Module name <b>Design in Existing Buildings / Preservation of Historical Monuments</b>		Course code <b>MAV-15</b>	Internal	Last updated 08.04.2021
Study semester 7th semester	Offered in WS			Credit points 6 CP	Semester week hours 4 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>		Responsible for module <b>Prof. Dr.-Ing. Birgit Franz</b>		Type of teaching, group size, if applicable <b>Seminar</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Student research paper without colloquium, seminar paper				If applicable, weighting of the study/examination achievements Student research paper (30%), seminar paper (70%)		
<b>Module objectives/desired learning outcomes:</b>						
Students						
<ul style="list-style-type: none"> <li>- are able to define the requirements for the design in dialogue with the existing building,</li> <li>- are able to outline the importance of regional planning history and practice,</li> <li>- are able to present the history of design and architectural criticism,</li> <li>- are able to discuss societal demands made on the built environment,</li> <li>- are able to make historical and cultural references in the process,</li> <li>- are able to describe and explain design procedures, design processes, and requirements on the part of historic preservation,</li> <li>- are able to formulate design responses for planning in architecture, urban design, civil engineering, monument preservation and restoration that meet both aesthetic and preservation requirements,</li> <li>- are able to find and represent their own positions for dealing with the inventory or cultural monuments.</li> </ul>						
<b>Contents:</b>						
Classic lecture units, such as those on:						
<ul style="list-style-type: none"> <li>- Design approaches, such as complementing, extending, or merging</li> <li>- Regional building and continued construction</li> </ul>						
Supplementary lecture units on current architectural discourses, such as:						
<ul style="list-style-type: none"> <li>- Design bylaws and design advisory boards</li> <li>- Planning competition</li> </ul>						
Exercises on:						
<ul style="list-style-type: none"> <li>- Draft argumentation</li> </ul>						
Impromptu on the basis of one or more site visits						
<ul style="list-style-type: none"> <li>- Creative inquiries from Hildesheim or the region</li> </ul>						
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)		
Prof. Dr.-Ing. Birgit Franz		4 LVS		Course attendance time		Home study
		-		Lecture	40 h	Course accompanying and exam preparation 120 h
		-		Exercise	15 h	
		-		Other	5 h	
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>		<b>180 h</b>
Optional extra						
Panel discussion made up of and moderated by students						
<b>Literature</b>						
is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Historical Building Research</b>		Course code <b>MAV-16</b>	Internal	Last updated 08.04.2021
Study semester 9th semester	Offered in WS			Credit points 6 CP	Semester week hours 4 SWS	
Allocation to study specialization Building in Existing Contexts / Preservation of Historical Monuments		Responsible for module N.N.		Type of teaching, group size, if applicable Seminar and individual/group supervision		
Can also be credited to study program Master of Architecture				Language of instruction German		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Student research paper with colloquium -				If applicable, weighting of the study/examination achievements Student research paper 80%, colloquium 20%		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to transfer their in-depth professional knowledge of issues and theory of historic preservation to aspects of practical historic preservation,</li> <li>- are able to connect questions of historical building research and building archaeology (surveying and finding / room schedule) on the basis of exemplary practical professional problems, discuss them and outline possible solutions,</li> <li>- are able to work in small groups to carry out all the steps of a deformation-based measurement,</li> <li>- are able to explain the findings on the object or a room schedule,</li> <li>- are able to reliably document the results of written and drawn work using professional methods,</li> <li>- are able to comprehensively consider the manifold aspects in the question of monument preservation (e.g. preliminary investigation in building renovations or necessity of archaeological measures in preparation of construction to establish planning security) in order to better assess special requirements in later professional practice.</li> </ul>						
<b>Contents:</b>						
<p>In close cooperation with the Lower Saxony State Office for the Preservation of Historical Monuments, an introduction to historical building research is offered on a suitable object (e.g. church or castle). The objects date from the Middle Ages or the early modern period, so that the context to the preservation of historical monuments is given. Students will carry out all steps of a deformation-compliant measurement, and the basic features of a report on the object or a room schedule will be explained (analog and digital). In addition, the analysis of historical illustrations/photographs/plans or the evaluation of written archival documents can be used on a case-by-case basis. The course will be conducted as work in (small) groups. Supervision is provided on site in (small) groups or one-on-one, and a short field trip is offered on a case-by-case basis. Special feature of the organization: The course takes place as a block class at the end of the lecture-free period of the winter semester, during the last two weeks before the start of the regular lecture period of the summer semester.</p>						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Assistant lecturer Dipl.-Ing. Markus Blaich		4 LVS	Course attendance time		Home study	
		-	Lecture	20 h	Course accompanying and exam preparation 60 h	
		-	Exercise	100 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra Field trip						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Preservation of Historical Monuments Theory</b>		Course code <b>MAV-17</b>	Internal	Last updated 08.04.2021	
Study semester 8th semester	Offered in SS			Credit points 6 CP		Semester week hours 4 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>		Responsible for module Prof. Dr.-Ing. Birgit Franz		Type of teaching, group size, if applicable Lecture & exercise			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction German			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types Student research paper with colloquium -				If applicable, weighting of the study/examination achievements Student research paper 75%, colloquium 25%			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to present the history of historic preservation up to the present,</li> <li>- are able to trace the evolution of historic preservation and conservation,</li> <li>- are able to correctly name and confidently use the basic concepts of monument protection and preservation,</li> <li>- are able to contrast and discuss the different approaches to dealing with cultural monuments,</li> <li>- are able to critically analyze the current condition of cultural monuments,</li> <li>- are able to take their own position in dealing with cultural monuments,</li> <li>- are able to apply their knowledge of the theory and history of historic preservation to planning in architecture, urban design, engineering, historic preservation, and restoration.</li> </ul>							
<b>Contents:</b>							
<p>Classic lecture units, such as those on:</p> <ul style="list-style-type: none"> <li>- Definition of terminology</li> <li>- Inventory</li> <li>- on the practical preservation of historical monuments</li> <li>- Inscriptions, charters and agreements</li> <li>- World heritage</li> </ul> <p>Supplementary lecture units on current architectural discourses, such as:</p> <ul style="list-style-type: none"> <li>- Monument mediation</li> <li>- Energy transition &amp; preservation of monuments</li> <li>- Remembrance culture &amp; historic</li> </ul> <p>preservation exercises on:</p> <ul style="list-style-type: none"> <li>- Monument inscriptions</li> <li>- Arguments on historical monuments</li> <li>- Panel discussion made up of and moderated by students on current discourses on monuments, followed by plenary and expert discussion</li> </ul>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Prof. Dr.-Ing. Birgit Franz		4 LVS		Course attendance time		Home study	
Assistant lecturer Dipl.-Ing. Sonja Tinney		3 LVS		Lecture	40 h	Course accompanying and exam preparation 120 h	
		-		Exercise	15 h		
		-		Other	5 h		
<b>Total classroom time</b>		<b>7 LVS</b>		<b>Total workload</b>		<b>180 h</b>	
Optional extra							
Possible field trip(s)							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Academic Research</b>		Course code <b>MAV-18</b>	Internal	Last updated 08.04.2021
Study semester 7th semester	Offered in WS	Responsible for module N.N.		Credit points 6 CP		Semester week hours 4 SWS
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercises</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations			Recommended prerequisites			
Study/examination achievements/ examination types <b>Seminar paper</b> -			If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to design academic work independently and systematically, to carry it out in a goal-oriented and results-oriented manner, and to document the results of their work in writing in a clearly structured manner,</li> <li>- are able to apply the methods of academic work to both smaller and more comprehensive tasks (e.g. the Master's thesis) and transfer them to areas of professional practice, for example in architectural offices, companies or public authorities,</li> <li>- are able to independently and efficiently control and further develop their individual learning and work processes.</li> </ul>						
<b>Contents:</b>						
<p>Basic principles of academic research/writing</p> <ol style="list-style-type: none"> <li>1. Characteristics of academic research/writing</li> <li>2. The stages of academic writing – from initial orientation to the submission of the finished text</li> <li>3. Typical structure of an academic paper</li> <li>4. Linguistic and formal requirements for texts</li> </ol> <p>Useful strategies and techniques for successful academic work</p> <ul style="list-style-type: none"> <li>- Writing techniques for collecting ideas, formulating and narrowing down topics</li> <li>- Working techniques for structuring materials, planning writing projects</li> <li>- Effective research and reading strategies, writing techniques for critically developing content, understanding citation rules</li> <li>- Guiding questions and strategies for the systematic revision of texts</li> </ul>						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Assistant lecturer Jana Zegenhagen		4 LVS	Course attendance time		Home study	
		-	Lecture	20 h	Course accompanying and exam preparation	
		-	Exercise	40 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Climate-Friendly Building</b>		Course code <b>MAV-61</b>	Internal	Last updated 08.04.2021	
Study semester 7th semester	Offered in WS	Responsible for module Prof. Dr.-Ing. Meike Deck		Credit points 6 CP		Semester week hours 4 SWS	
Allocation to study specialization Architecture				Type of teaching, group size, if applicable Lecture & exercise			
Can also be credited to study program Master of Architecture				Language of instruction German			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types Project work without colloquium, seminar paper				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to present the basics of climate-appropriate building and explain the associated passive measures for reducing heating or cooling workloads,</li> <li>- are able to apply simple simulation tools and interpret their results,</li> <li>- are able to conceive their own design in compliance with the relevant standards and guidelines and to analyze and optimize the building structure with the help of simulations,</li> <li>- are able to incorporate relevant comfort models in their construction and design implementation,</li> <li>- are able to summarize, present and discuss their work results in short reports.</li> </ul>							
<b>Contents:</b>							
<p>Lectures and exercises communicate in-depth knowledge of climate-appropriate construction. The use of hygrothermal and dynamic simulation tools is elaborated on the basis of parameter studies. Based on the analysis of an existing building, design and construction measures are developed for a space that meet the requirements of energy efficiency, freedom from damage to the structure and the comfort needs of the user in equal measure. Working with relevant standards and guidelines forms the basis of the simulation used. Progress is continuously reviewed on the basis of short presentations and brief reports.</p>							
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)				
Prof. Dr.-Ing. Meike Deck		4 LVS	Course attendance time		Home study		
		-	Lecture	40 h	Course accompanying and exam preparation 120 h		
		-	Exercise	20 h			
		-	Other				
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Energy-Optimized Building: Building Enclosure</b>		Course code <b>MAV-62</b>	Internal	Last updated 08.04.2021
Study semester 8th semester	Offered in SS			Credit points 6 CP	Semester week hours 4 SWS	
Allocation to study specialization Architecture		Responsible for module Prof. Dr.-Ing. Meike Deck		Type of teaching, group size, if applicable Lecture & exercise		
Can also be credited to study program Master of Architecture				Language of instruction German		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Project work without colloquium, seminar paper				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to develop and mathematically verify optimized detailed constructions of the building envelope in the winter and summer context (thermal bridges),</li> <li>- are able to apply energy balancing procedures in the public legal verification according to ENEV or DIN 18599 to exemplary building constructions,</li> <li>- are able to assess the relevance of structural optimization on the total energy needs or the transmission heat loss and to include it in their professional work,</li> <li>- are able to prove the summer thermal insulation with the help of a simulation according to DIN 4108-2 and to optimize the room under investigation in terms of comfort classes,</li> <li>- are able to develop an individually coordinated overall concept for the building enclosure and to represent this in terms of calculations and drawings.</li> </ul>						
<b>Contents:</b>						
<p>Lectures and exercises provide in-depth knowledge of the energy relevance of the building enclosure. In addition to linear component structures and the material-specific properties, students also specifically investigate and mathematically verify detailed connections. The interpretation of the results (PSI value, fRSI, surface temperatures, etc.) is dealt with in great detail.</p> <p>The focus is on winter and summer thermal insulation verification and the associated requirements for the building enclosure.</p> <p>Within the scope of an overall energy balance, the findings are summarized in the sense of public-law evidence.</p>						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Prof. Dr.-Ing. Meike Deck		4 LVS	Course attendance time		Home study	
		-	Lecture	40 h	Course accompanying and exam preparation 120 h	
		-	Exercise	20 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Energy-Optimized Building: Building Services</b>		Course code <b>MAV-63</b>	Internal	Last updated 08.04.2021	
Study semester 9th semester	Offered in WS			Credit points 6 CP	Semester week hours 4 SWS		
Allocation to study specialization Architecture				Responsible for module Prof. Dr.-Ing. Meike Deck	Type of teaching, group size, if applicable Lecture & exercise		
Can also be credited to study program Master of Architecture				Language of instruction German			
Requirements according to examination regulations			Recommended prerequisites MAV-62				
Study/examination achievements/ examination types Project work with colloquium, seminar paper			If applicable, weighting of the study/examination achievements				
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to develop an individually coordinated overall concept for a building with a focus on building services engineering and present it in mathematical terms,</li> <li>- are able to transfer their advanced knowledge of building services systems (heating, ventilation, water heating, lighting) to their own building design and derive specific questions regarding energy-optimized construction,</li> <li>- are able to confidently apply numerical simulation methods and analyze their results in a well-founded and comprehensive manner,</li> <li>- are able to comprehensively record and analyze an existing building or a building design,</li> <li>- are able to penetrate complex technical issues, process them methodically and develop individual solution strategies.</li> </ul>							
<b>Contents:</b>							
<p>In lectures and exercises, students gain in-depth knowledge of dynamic simulation methods and discuss their possible applications in building technology assessment. Students develop (in consultation) their own individual question based on their own building design regarding:</p> <ul style="list-style-type: none"> <li>- Heating</li> <li>- Ventilation</li> <li>- Lighting</li> <li>- Comfort</li> <li>...</li> </ul> <p>With the help of various simulation tools, the problem is solved and represented using mathematical/drawing methods. Different tools are used depending on the question.</p> <p>An essential part of the simulation is the feedback on the building under study and the related design consequence.</p>							
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)				
Prof. Dr.-Ing. Meike Deck		4 LVS	Course attendance time		Home study		
		-	Lecture	40 h	Course accompanying and exam preparation		
		-	Exercise	20 h			
		-	Other		120 h		
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Constructive Design</b>		Course code <b>MAV-64</b>	Internal	Last updated 08.04.2021
Study semester <b>8th semester</b>	Offered in <b>SS</b>			Credit points <b>6 CP</b>	Semester week hours <b>4 SWS</b>	
Allocation to study specialization <b>Architecture</b>		Responsible for module <b>Prof. Matthias Pätzold</b>		Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types <b>Student research paper with colloquium</b> -				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to analytically penetrate the complex interdependencies of material and construction, form and function, of components and buildings and to take them into account comprehensively in a construction task,</li> <li>- are able to methodically implement the technical aspects of construction with confidence, taking into account the complex relationships between technical requirements and holistic solutions,</li> <li>- are able to design sophisticated and high-quality load-bearing structures or detailed load-bearing structure solutions, taking into account design, functional, technical, physical, economic, energy-saving and ecological aspects,</li> <li>- are able to develop sustainable and innovative load-bearing structures and produce new technologies based on scientifically sound results,</li> <li>- are able to work effectively in interdisciplinary dialogue with all those involved in the planning process and assume leadership functions.</li> </ul>						
<b>Contents:</b>						
<p>Advanced knowledge, skills and abilities in the special field of construction and structural engineering for new buildings or existing buildings (repair, renovation, restoration)</p> <p>The contents are defined by the topics set in the task, e.g. "Long-span structures":</p> <ul style="list-style-type: none"> <li>- Interdependencies of material and construction, form and function, of components and buildings in a construction task</li> <li>- Methodical confidence in the processing of complex structural tasks, e.g. the development of supporting structures and detailed structural solutions with high quality requirements</li> <li>- Systematic, science-based application of in-depth knowledge to sustainable and innovative problem solutions in constructive design</li> <li>- Interdisciplinary and interprofessional cooperation and leadership skills</li> </ul>						
<b>Course attendance time (in mandatory hours - LVS)</b>				<b>Workload (in hours)</b>		
Prof. Matthias Pätzold		4 LVS		Course attendance time		Home study
		-		Lecture	30 h	Course accompanying and exam preparation 120 h
		-		Exercise	30 h	
		-		Other		
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>		<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						



Allocation to course of study <b>Master of Architecture</b>		Module name <b>Design, Visualization</b>		Course code <b>MAV-65</b>	Internal	Last updated 08.04.2021
Study semester 7th semester	Offered in WS	Responsible for module Prof. Dr.- Ing. Till Böttger		Credit points 6 CP		Semester week hours 4 SWS
Allocation to study specialization Architecture				Type of teaching, group size, if applicable Lecture & exercise		
Can also be credited to study program Master of Architecture				Language of instruction German		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Student research paper with colloquium -				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
Students						
<ul style="list-style-type: none"> <li>- are able to combine visual representation and design in a meaningful way for the illustration of concepts,</li> <li>- are able to use images to architecturally analyze and evaluate specific spatial situations,</li> <li>- are able to compose new atmospheres for specific spatial situations,</li> <li>- are able to use digital representation techniques to design and create architecture,</li> <li>- are able to specifically imagine, abstract and precisely represent space-forming constructions in their material, color and light in 3D,</li> <li>- are able to combine analog and digital image processing techniques in a meaningful way depending on the concept,</li> <li>- are able to use innovative programs and media to confidently visualize and present analog and digital architectural representations, their preparation and further processing, as well as graphics and text,</li> <li>- are able to deal with new experiences of (visual) perception in a self-reflective way,</li> <li>- are able to constructively contribute their own technical and methodological skills in interdisciplinary dialogue with media designers, photographers, and copy editors, and to define and pursue common goals.</li> </ul>						
<b>Contents:</b>						
<p>A series of exercises teach students the respective contents for presentation and visualization. During the lectures, the contents of the exercises will be prepared, combined and deepened.</p> <p>A preliminary architectural design for a specific site is developed using analog and digital representation techniques to test various design concepts. One focus is placed on the building materials and the corresponding representation with the help of CAD software in 3D drawings. These representations are showcased with light. Image processing is used to relate the visualization to a location, after which it is finally retouched and perfected.</p>						
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>			
Assistant lecturer	4 LVS	Course attendance time		Home study		
	-	Lecture	80 h	Course accompanying and exam preparation		90 h
	-	Exercise	10 h			
	-	Other				
<b>Total classroom time</b>	<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>	
Optional extra						
<b>Literature</b>						
is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Open Space Planning</b>		Course code <b>MAV-66</b>	Internal	Last updated 08.04.2021
Study semester <b>9th semester</b>	Offered in <b>WS</b>	Responsible for module <b>N.N.</b>		Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>
Allocation to study specialization <b>Architecture</b>				Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types <b>Student research paper without colloquium</b> -				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to trace the history of garden art and present the professional discourse on the concept of space,</li> <li>- are able to describe the complex relationships between architecture, landscape and city,</li> <li>- are able to perceive and analyze the social and cultural aspects of space,</li> <li>- are able to appreciate and evaluate the quality of nature and open space in the city,</li> <li>- are able to incorporate basic knowledge of nature and vegetation into their professional considerations and take this knowledge into account when developing guiding principles and design ideas,</li> <li>- are able to develop quality objectives for open space planning, taking into account current urban planning and other specialist discussions.</li> </ul>						
<b>Contents:</b>						
History of garden art; survey of different open spaces; analysis of urban spaces taking into account sociological aspects; definition and discussion of the concept of space; conceptual implementation of guiding principles and design ideas; vegetation as a means of implementing different spatial qualities; use of street furniture.						
<b>Course attendance time</b> (in mandatory hours - LVS)			<b>Workload</b> (in hours)			
Prof. Dr.-Ing. Rainer Hobigk		4 LVS	Course attendance time		Home study	
		-	Lecture	30 h	Course accompanying and exam preparation 120 h	
		-	Exercise	30 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Construction Management</b>		Course code <b>MAV-67</b>	Internal	Last updated 08.04.2021	
Study semester <b>8th semester</b>	Offered in <b>SS</b>			Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>	
Allocation to study specialization <b>Architecture</b>		Responsible for module <b>N.N.</b>		Type of teaching, group size, if applicable <b>Lecture &amp; exercise</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types <b>Student research paper without colloquium</b> -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to explain the construction process in transition,</li> <li>- are able to present project development and project management in depth as well as sustainable real estate development in outline form,</li> <li>- are able to apply the knowledge described above in the complex context of management in the construction industry, taking into account the relevant influencing factors and using suitable management tools.</li> </ul>							
<b>Contents:</b>							
<ul style="list-style-type: none"> <li>- Project development with real estate management theory, the factors determining the project, macro and micro analysis, the project development process, corporate real estate management, public private partnership, etc.</li> <li>- Project management with management in construction, project management in the planning and execution phase, as well as in operation, etc.</li> <li>- Real estate related sustainability, influencing variables, tools and methods</li> <li>- Feasibility studies, products in the real estate market, third-party usage, etc. monitoring, schedule management and control tools.</li> </ul>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Assistant lecturer Dipl.-Ing. Christian Zumwinkel		4 LVS		Course attendance time		Home study	
		-		Lecture	40 h	Course accompanying and exam preparation 120 h	
		-		Exercise	20 h		
		-		Other			
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>			<b>180 h</b>
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Urban Development History</b>		Course code <b>MAV-68</b>	Internal	Last updated 08.04.2021	
Study semester 7th semester	Offered in WS	Responsible for module Carolin Prinzhorn M.A., V-Prof		Credit points 6 CP		Semester week hours 4 SWS	
Allocation to study specialization <b>Building in Existing Contexts / Preservation of Historical Monuments</b>				Type of teaching, group size, if applicable Lecture			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction German			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types Student research paper without colloquium -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to outline the history of central European urban planning from antiquity to modern times,</li> <li>- are able to discuss urban structures in the context of their cultural-historical foundations,</li> <li>- are able to critically examine and classify the historical developments in urban planning,</li> <li>- are able to analyze original urban structures and their changes,</li> <li>- are able to incorporate their specialist knowledge of urban planning history into their professional work when planning in architecture, urban planning, civil engineering, monument preservation and restoration.</li> </ul>							
<b>Contents:</b>							
<p>The lecture provides an overview of Central European urban planning history from antiquity to modern times and establishes references to the present.</p> <p>Different historical city organisms are presented in terms of the main features of historical settlement development, for example,</p> <ul style="list-style-type: none"> <li>-</li> <li>- the characteristics of urban settlements in different geographical and temporal contexts,</li> <li>- planned and naturally developed cities,</li> <li>- the connections between house construction and urban form.</li> </ul> <p>The lecture contents can be dealt with in more detail in exercises and/or presentations on selected topics.</p>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Carolin Prinzhorn M.A., V-Prof		4 LVS		Course attendance time		Home study	
		-		Lecture	50 h	Course accompanying and exam preparation 120 h	
		-		Exercise	10 h		
		-		Other			
<b>Total classroom time</b>		<b>4 LVS</b>		<b>Total workload</b>		<b>180 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Historical Building Forms and Constructions</b>		Course code <b>MAV-69</b>	Internal	Last updated 08.04.2021
Study semester 8th semester	Offered in SS			Credit points 6 CP	Semester week hours 4 SWS	
Allocation to study specialization Building in Existing Contexts / Preservation of Historical Monuments		Responsible for module Carolin Prinzhorn M.A., V-Prof		Type of teaching, group size, if applicable Lecture		
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction German		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Student research paper without colloquium -				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to correctly name and characterize different historical building forms, building materials and building constructions from the Middle Ages to the early 20th century,</li> <li>- are able to explain the relationships between construction technology and construction form,</li> <li>- are able to localize, correctly designate and analyze historical constructions,</li> <li>- are able to classify buildings and their furnishings in their temporal and regional context,</li> <li>- are able to determine and contrast original building conditions and their changes,</li> <li>- are able to incorporate their specialist knowledge of historical building forms and structures into their professional work when planning architecture, urban planning, civil engineering, monument preservation and restoration,</li> <li>- are able to present arguments based on cultural and architectural history against the background of the history of construction and use of the respective object.</li> </ul>						
<b>Contents:</b>						
<p>The lecture provides an overview of historical building forms, building materials, and building construction from the Middle Ages to the early 20th century, with an emphasis on Central European secular architecture. Buildings from different periods of architectural history are presented, for example with regard to</p> <ul style="list-style-type: none"> <li>- the specific materials used in their design,</li> <li>- their furnishing elements typical of the period,</li> <li>- the connection between building and usage,</li> <li>- the connection between construction technology and construction form.</li> </ul> <p>The lecture contents can be dealt with in more detail in exercises and/or presentations on selected topics.</p>						
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>			
Carolin Prinzhorn M.A., V-Prof		4 LVS	Course attendance time		Home study	
		-	Lecture	50 h	Course accompanying and exam preparation 120 h	
		-	Exercise	10 h		
		-	Other			
<b>Total classroom time</b>		<b>4 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Architecture Theory</b>	Course code <b>MAV-70</b>	Internal	Last updated 08.04.2021
Study semester <b>9th semester</b>	Offered in <b>WS</b>		Credit points <b>6 CP</b>		Semester week hours <b>4 SWS</b>
Allocation to study specialization <b>Architecture</b>		Responsible for module <b>Prof. Dr.- Ing. Till Böttger</b>	Type of teaching, group size, if applicable <b>Lecture</b>		
Can also be credited to study program <b>Master of Architecture</b>			Language of instruction <b>German</b>		
Requirements according to examination regulations			Recommended prerequisites		
Study/examination achievements/ examination types <b>Student research paper with colloquium</b> -			If applicable, weighting of the study/examination achievements		

**Module objectives/desired learning outcomes:**

Students

- are able to present the history and theory of modern architecture comprehensively, in detail, and in the context of selected, complex subject relationships,
- are able to understand, analyze and evaluate selected architectural theories,
- are able to comparatively contrast architectural concepts and attitudes in diverse forms of expression, such as architectural theory texts, architectural representations, and built architecture,
- are able to classify major movements in architectural theory,
- are able to independently and systematically research, analyze and critically evaluate academic literature and other sources of information,
- are able to prepare architectural theories in a structured manner in the form of various presentations and textual elaborations and to present them in a professionally appropriate manner to the target audience,
- are able to deal openly, critically and self-reflectively with current trends in architecture and the professional discourse on them.

**Contents:**

A series of exercises provide the relevant content for understanding and classifying architectural theories. The lectures present outstanding architectural theories. During the lectures, the contents of the exercises will be prepared, combined and deepened.

Within the scope of scientific research and analysis, selected architectural theories and associated representations and architectures will be examined and placed in a current context. Analyses are used to break down the theory and the architecture into their individual aspects in the sense of a deduction and to name the constituting elements. In a second step, the space-forming elements are expressed in the sense of a synthesis in the form of new representations as well as a textual discussion. The architectural theory under consideration is then recapitulated and evaluated, or rather, interpreted.

Course attendance time (in mandatory hours - LVS)		Workload (in hours)		
Prof. Dr.- Ing. Till Böttger	4 LVS	Course attendance time		Home study
-	-	Lecture	80 h	Course accompanying and exam preparation 90 h
-	-	Exercise	10 h	
-	-	Other		
<b>Total classroom time</b>	<b>4 LVS</b>	<b>Total workload</b>		<b>180 h</b>

Optional extra

**Literature**

is listed in Stud.IP

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Architecture Workshop</b>		Course code <b>MAV-71</b>	Internal	Last updated 08.04.2021	
Study semester <b>10th semester</b>	Offered in WS <b>+ SS</b>	Responsible for module <b>Entire teaching staff</b>		Credit points <b>6 CP</b>		Semester week hours <b>6 SWS</b>	
Allocation to study specialization -				Type of teaching, group size, if applicable <b>course-dependent</b>			
Can also be credited to study program <b>Master of Architecture</b>				Language of instruction <b>German</b>			
Requirements according to examination regulations				Recommended prerequisites			
Study/examination achievements/ examination types <b>Student research paper without colloquium</b> -				If applicable, weighting of the study/examination achievements			
<b>Module objectives/desired learning outcomes:</b>							
<p>Field trips:</p> <ul style="list-style-type: none"> <li>- Students independently acquire new specialist content on the history of the country, architecture and urban development of the field-trip destination.</li> <li>- They integrate their knowledge of the cultural history of the field trip destination into the context of the respective European or non-European cultural sphere with scientific justification.</li> </ul> <p>Workshops:</p> <ul style="list-style-type: none"> <li>- Students argue with confidence and scientific reasoning in discussions with experts.</li> <li>- They design and guide communicative and action-related interaction in a group, showing respect for other points of view.</li> <li>- If necessary, they analyze conflicts that may arise in the group and select and implement appropriate strategies to resolve the conflict.</li> </ul> <p>Out of College:</p> <ul style="list-style-type: none"> <li>- Students design and review learning and success processes in a targeted manner, also under conditions that have changed</li> <li>- They critically reflect on their own ways of thinking and behaving and adapt them if necessary; change perspectives in a goal-oriented way and review them.</li> <li>- They take responsibility for their own professional and personal development.</li> </ul>							
<b>Contents:</b>							
<p>Field trips, workshops, and out-of-college modules with a variety of professional focuses: Field trips: Professional field trips offered by the study program in Germany and abroad of at least 5 or 10 days (corresponding to 3 or 6 credit points) with seminar preparation and follow-up, i.e. documentation of the professional approach and the academic outcome</p> <p>Workshops: Architectural workshops in Germany and abroad, impromptu design events of at least 5 or 10 days (corresponding to 3 or 6 credit points) on selected, current topics in the field of architecture</p> <p>Out of College: Modules that can be completed at other universities (3 or 6 credit points)</p> <p>After prior consultation with the module representative or the program coordinator, it is possible for students to combine two modules with 3 credit points each. It is not possible to reimburse costs, e.g. for field trips and workshops.</p>							
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)			
Entire teaching staff		0.1 LVS	Course attendance time		Home study		
		-	Lecture		Course accompanying and exam preparation		177 h
		-	Exercise				
		-	Other	3 h			
<b>Total classroom time</b>		<b>0.1 LVS</b>	<b>Total workload</b>			<b>180 h</b>	
Optional extra							
<b>Literature</b> is listed in Stud.IP							

Allocation to course of study <b>Master of Architecture</b>		Module name <b>Module for Preparation of the Master's Thesis</b>		Course code <b>MA 4-1</b>	Internal	Last updated 08.04.2021
Study semester 10th semester	Offered in WS + SS			Credit points 6 CP	Semester week hours 6 SWS	
Allocation to study specialization -		Responsible for module Entire teaching staff		Type of teaching, group size, if applicable Seminar		
Can also be credited to study program Master of Architecture				Language of instruction German		
Requirements according to examination regulations				Recommended prerequisites		
Study/examination achievements/ examination types Student research paper without colloquium -				If applicable, weighting of the study/examination achievements		
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to independently acquire in-depth specialist knowledge and skills on a specific issue that they wish to address as part of their Master's thesis,</li> <li>- are able to independently conduct comprehensive research on thematically relevant scientific studies and specialist literature and to analyze and critically evaluate the information obtained,</li> <li>- are able to fully grasp the state of the art in a subject area and present it in detail,</li> <li>- are able to develop application-oriented technical solutions for complex tasks based on scientific methods, collect primary data, and interpret and critically reflect on it.</li> <li>- are able to recognize alternative courses of action and make decisions on their own,</li> <li>- are able to present their expertise in a subject area and the results of their independent work in a structured manner, both orally and in writing, and to visualize them confidently using appropriate media.</li> </ul>						
<b>Contents:</b>						
<p>Students conduct comprehensive literature searches covering not only monographs, but also journals and other series, and/or</p> <p>Prepare and test experimental setups, test procedures or similar.</p>						
<b>Course attendance time</b> (in mandatory hours - LVS)				<b>Workload</b> (in hours)		
Entire teaching staff		0.1 LVS	Course attendance time		Home study	
		-	Lecture		Course accompanying and exam preparation	
		-	Exercise			
		-	Other	3 h		
<b>Total classroom time</b>		<b>0.1 LVS</b>	<b>Total workload</b>			<b>180 h</b>
Optional extra						
<b>Literature</b> is listed in Stud.IP						



Allocation to course of study <b>Master of Architecture</b>		Module name <b>Master's Thesis</b>		Course code <b>MA 4-2</b>	Internal	Last updated 08.04.2021
Study semester <b>10th semester</b>	Offered in WS <b>+ SS</b>	Responsible for module <b>Entire teaching staff</b>		Credit points <b>24 LP</b>		Semester week hours <b>n/a</b>
Allocation to study specialization -				Type of teaching, group size, if applicable		
Can also be credited to study program <b>Master of Architecture</b>		Requirements according to examination regulations <b>according to examination regulations</b>		Language of instruction <b>German</b>		
Requirements according to examination regulations <b>according to examination regulations</b>				Recommended prerequisites		
Study/examination achievements/ examination types <b>Final thesis with colloquium</b> -		If applicable, weighting of the study/examination achievements				
<b>Module objectives/desired learning outcomes:</b>						
<p>Students</p> <ul style="list-style-type: none"> <li>- are able to act scientifically and independently on the basis of in-depth specialist knowledge and well-founded analytical and methodological skills in all fields of work in the subject area,</li> <li>- are able to comprehensively penetrate technical contexts and to process complex tasks in a holistic, solution-oriented and methodical manner,</li> <li>- are able to systematically collect and critically evaluate data relevant to making judgments that consider relevant scientific, social, and ethical issues,</li> <li>- are able to solve even complex and novel problems in their field in a reflective and creative manner, drawing on scientific knowledge and methods, and to formulate innovative research questions,</li> <li>- are able to articulate ideas, problems, and solutions in their field logically and persuasively in oral and written form, and to communicate verbally and visually with both professional and lay audiences in a structured and appropriate manner.</li> </ul>						
<b>Contents:</b>						
<p>There are no restrictions on the scientific/academic topics of the Master's thesis in the Architecture program. The thesis is divided into a scientific-theoretical and an application-related part. The independent preparation of the Master's thesis must be carried out in accordance with the currently valid examination regulations.</p>						
<b>Course attendance time (in mandatory hours - LVS)</b>			<b>Workload (in hours)</b>			
First examiner	0.3 LVS	Course attendance time	Home study			
Second examiner	0.1 LVS	Lecture		Course accompanying and exam preparation		890 h
	-	Exercise				
	-	Other	10 h			
<b>Total classroom time</b>	<b>0.4 LVS</b>	<b>Total workload</b>			<b>900 h</b>	
Optional extra						
<b>Literature</b> is listed in Stud.IP						

September, 2021

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