



Bachelor's degree programme "Architecture"

Module handbook

to the degree programme examination regulations 2018

Status: 17/03/2023

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Appendix: Study plan

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Academic year 1					
Design and presentation (total credits: 21)					
Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.1	180	12	1.+2.	every WS	2 sem.
1	Courses Basics of design, Perspective drawing (6 SWS/7.5 SWS)		Contact time 72 h WS 90 h SOS	Self-study 108 h WS 90 h SOS	Planned group size 120 students
2	Learning outcomes / competences Teaching the basic ability to work creatively, think spatially and formulate your own ideas in sketches and models.				
3	Contents Basics of perspective drawing, basics of freehand drawing, basics of different methods of representation (e.g. pencil sketching, charcoal drawing, watercolour, etc.), light in architecture, colour in architecture, materials science, surface, structure, etc., painting workshop, spatial design: Spatial development: form, colour, light, basics of sculptural design, introduction to model making, colour theory, proportion theory (golden ratio, modulator etc.), introduction to 20th/21st century art/design history, excursions (Insel Hombroich, Kröller Müller Museum etc.)				
4	Teaching methods Lectures, practical exercises, individual supervision, correction of exercises and projects, Follow-up work with the help of weekly, individual study assignments				
5	Participation requirements: formal: none				
6	Type of examination Written examination (120 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof Dr Karin Lehmann				
11	Other information:				

Academic year 1

Design and presentation (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.2	180 or 90	9	1.+2.	every WS	2 sem.
1	Courses Digital media, CAD (6 SWS in WS and 3 SWS in SS)		Contact time 72 h 36 h	Self-study 108 h WS 54 h SS	Planned group size 120 students
2	Learning outcomes / competences Digital methods of design, drafting and construction in architecture studies and practice. Basic knowledge of the acquisition and processing of digital data. Basic knowledge about the acquisition and processing of digital data.				
3	Contents The subject of this module is an introduction to the creative use of digital media in the architectural design and construction process. Digital media are taught as an important component of a future-orientated design approach. In addition to the technical content, we also consider cultural, historical and social aspects and the conscious change from digital to analogue. While a foundation of digital design techniques is laid in several smaller tasks in the summer semester, 3D modelling in BIM authoring software and the derivation of planning documents and visualisations are taught in the summer semester using a digitally planned building design. The module concludes with the creation of a digitally produced portfolio for both semesters. Contents: 1st semester: Digital design and drafting - basics of digital image processing, Layout design and vector-oriented graphics processing; CAD basics (user interface, 2D drawing, 3D modelling, visualisation). 2nd semester Digital Design - in-depth study of 3D modelling, visualisation; integration of digital information from online data sources, basics of building information modelling (databases, data exchange)				
4	Teaching methods Lectures, practical exercises, individual supervision, correction of exercises and projects, follow-up work with the help of weekly, individual study assignments				
5	Participation requirements: formal: none				
6	Type of examination Term paper with oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 9/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Sven Pfeiffer				
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffersven/				

Academic year 1

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.1	180	12	1.+2.	every WS	2 sem.
1	Courses Fundamentals of Design (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Methods of experimental and conceptual design as well as corresponding Realisation skills. Basic knowledge of design and spatial theories, spatial analysis methods and structural principles of architecture.				
3	Contents The subject of the courses in this module is the process of designing as a procedure in which the intellectual examination of the specific circumstances of a given project is carried out. The physical process of making, which makes associative and intuitive potentials available, is inextricably linked to the concept of a task and a place. In both semesters, students work on a series of smaller design tasks, each of which is categorised in an overarching semester topic and serves to understand and test design methods. In addition, the methodological and theoretical foundations of the terms space, use, concept and form are taught in the lectures. Winter semester content: Designing as an intellectual and intuitive process the relationship between concept and form sectional drawing space as a space for action scale, proportion methods of analysis space-generating properties: Form, light, materiality, surface, texture, colour, context Contents Summer semester: Basic concepts of living Stairs Development History of the Living Floor plan typologies of living Use as an architectural category				
4	Teaching methods Lectures, exercises with weekly supervision of the respective work steps, commentary and assessment of individual work, excursions, workshops				
5	Participation requirements: formal: none				
6	Type of examination Portfolio examination (elements: design I [50%], design II [45%], artistic work [5%], learning process - reflection [unassessed])				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Katharina Feldhusen				
11	Other information:				

Academic year 1

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.1	180	12	1.+2.	every WS	2 sem.
1	Courses Building Construction I (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences The focus is on teaching sound basic knowledge of building construction using selected types of solid construction and filigree construction. Students gain a basic understanding of the architectural and spatial relationships between material, construction and design.				
3	Contents In the first semester, the focus is on solid construction using the example of masonry construction and in the second semester on filigree construction using the example of timber construction. Based on the elements of the house (foundation, walls, ceilings, roofs, openings, stairs, etc.), topics such as dimensional order and grid, an appropriate load-bearing concept, the importance of main and secondary support layers, the solution of simple junctions, sealing against the ground, basic superstructures and joints in walls, ceilings and flat and pitched roofs and window and façade constructions are dealt with. A central component of the content taught is two semester exercises in which these topics come together and students design and construct their "first house" in solid construction and filigree construction down to the last detail. This also teaches drawing skills for creating construction drawings using the dimensional rules for building construction as well as modelling skills.				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: formal: none				
6	Type of examination Portfolio examination (elements Draft I [50%], Draft II [50%], learning process reflection [unassessed])				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Erhard An-He Kinzelbach				
11	Other information:				

Academic year 1

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.4.1	90	6	2.+3.	each SS	2 sem.
1	Courses Structural analysis (4 SWS)		Contact time 48 h	Self-study 42 h	Planned group size 120 students
2	Learning outcomes / competences <p>The subject of structural engineering provides the basics for understanding the mode of action of structures and their material-related characteristics. This subject provides the necessary knowledge for designing, constructing, detailing and realising supporting structures. Within the framework of structural engineering, students acquire the knowledge and skills required to correctly calculate actions and loads for designs in simple cases and to analyse the resulting stresses on the supporting structure (stresses, internal forces, deformations) of the to compare the load-bearing capacity of the selected load-bearing structure and to estimate the service properties and durability. Modelling and analyses, Simplified and rough calculations according to design-compliant procedures and illustrative Design aids are intended to provide a methodical insight into the load-bearing behaviour. With the In the course of the examination of the teaching content, vividness and methodical abstraction are in a balanced relationship.</p>				
3	Contents Structural typologies, beam shapes, trusses, statically determinate and indeterminate structures, Multi-span beams, articulated beams, frame structures, long-span structures. Load assumptions and forces, equilibrium, spatial bracing, external and internal forces, strength theory, Types of stress (bending, shear force, longitudinal force), serviceability, stability				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: formal: none				
6	Type of examination Written examination (180 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dr.-Ing. Michael Maas				
11	Other information:				

Academic year 1

Building Technology (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.2	90	6	1.+2.	every WS	2 sem.
1	Courses Building materials technology (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 120 students
2	Learning outcomes / competences Understanding of the mechanical, physical and chemical behaviour of the most important building materials during production, processing and application as well as a look at their durability and Design characterisation. Further qualification objectives are knowledge of the The possible applications of important building materials, the advantages and disadvantages, but also the limits of use, about the standardised abbreviations for building materials, the basics of Materials testing and initial approaches to the independent acquisition of specialised knowledge from and in building materials technology.				
3	Contents Properties of building materials, use of building materials, susceptibility to damage, chemical behaviour of binders and building materials, the principles and procedures of building material testing and assessment, assessment of building materials with regard to areas of application, regulations, environmental and health compatibility, recycling potential.				
4	Teaching methods Small group practical course in the building materials laboratory, individual work				
5	Participation requirements: formal: none				
6	Type of examination Written examination (120 min, electronically supported, at the university or under remote supervision)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Volker Huckemann				
11	Other information:				

Academic year 1

Cultural Studies (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.1	90	6	1.+2.	every WS	2 sem.
1	Courses Building History (WS 2 SWS; SS 3 SWS)	Contact time 24 h WS 42 h SS	Self-study 66 h 48 h	Planned group size 120 students	
2	Learning outcomes / competences Historical and methodological knowledge is taught to enable future architects to recognise and evaluate historical buildings and ensembles. The most important stages of European building culture are taught in lectures and exercises.				
3	Contents Architectural theory of form, space formation from antiquity to the Bauhaus, production of Drawings on the subject of stylistics (certificate), preparation of a presentation on a building (certificate)				
4	Teaching methods Lectures, seminars, practical exercises, presentations, self-directed individual and group work. Group work, visits to buildings, guided tours of buildings, visits to urban and open spaces				
5	Participation requirements: formal: none				
6	Type of examination Written exam (60 min., written form, at the university)				
7	Requirements for the awarding of credit points Obtaining the certificate, examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dr.-Ing. Karin Lehmann				
11	Other information:				

Academic year 2

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.2	180	12	3.+4.	every WS	2 sem.
1	Courses Building Theory (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Building theory provides a basic knowledge of the main building typologies. This enables students to develop appropriate solutions for the various design tasks.				
3	Contents Imparting basic knowledge that enables students to find appropriate solutions for a wide variety of design tasks. This includes knowledge - of the main building typologies (residential buildings, school buildings, office buildings, museum buildings, etc.), their specific features and characteristic structuring options - of the development of these typologies under the influence of social changes - of the key principles of building regulations that have a significant influence on the structure of buildings (fire protection, fire safety, etc.), accessibility, etc.) - about non-typology-specific, but nevertheless significant influencing factors on the design - about current trends and developments in architecture Building on this, the ability to implement this knowledge "step by step" in architectural design is practised.				
4	Teaching methods Lectures, supervision of exercises				
5	Participation requirements: formal: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. André Habermann				
11	Other information:				

Academic year 2

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.3.1	180	6	4.	every WS	1 sem.
1	Courses		Contact time	Self-study	Planned group size
	Design 1 (4 SWS)		48 h	132 h	120 students
2	Learning outcomes / competences				
	The aim of the design module is to teach students the complex process of design. It should enable them to realise tasks spatially, taking into account functional, constructive, aesthetic and social aspects, and to create an architectural whole.				
3	Contents				
	Based on the analysis and the special features of the location, a design idea is to be developed, which is led to an architectural design in various work steps. Using sketches and working models, the individual solutions are discussed in weekly corrections, conceptual aspects are discussed and design and organisation principles are taught. Intermediate and final presentations accompany the design steps and serve to substantiate and communicate the design ideas. The first draft is thematically tailored to the needs of the first designers and is particularly intensive in terms of supervision.				
4	Teaching methods				
	Lectures/seminars/corrections				
5	Participation requirements:				
	Completion of M1.1 and M2.1				
6	Type of examination				
	Term paper (draft) with presentation				
7	Requirements for the awarding of credit points				
	Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade:				
	6/243				
10	Module coordinator and full-time lecturer two professorships in rotation				
11	Other information:				
	Advanced modules: Design 1-4				

Academic year 2

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.4	180	6	3.	every WS	1 sem.
1	Courses Basics of urban development (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Students will be able to read and analyse complex, existing urban structures and react to the deficiencies and potential of existing urban structures in a contemporary way. Students acquire basic knowledge of urban planning for working on structural designs in subsequent semesters.				
3	Contents The module includes an examination of four urban planning building blocks: forms of arrangement, utilisation, development and open spaces. Typologies and interdependencies are presented in each case. Methods of urban planning design are presented and urban planning law is introduced. As a rule, we take part in simple student competitions in coordination with cities and municipalities as part of the "urban planning impromptu designs".				
4	Teaching methods Weekly lectures, practical exercises on simple urban planning situations and tasks, weekly group supervision				
5	Participation requirements: formal: none				
6	Type of examination Portfolio examination (examination element urban design [70%], examination element 15-minute presentation Expert discussion [30%], learning process reflection [unassessed])				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Andreas Fritzen				
11	Other information: Excursions in the urban planning module				

Academic year 2

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.2	180	12	3.+4.	every WS	2 sem.
1	Courses Building Construction II (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Design and construction are mutually dependent. The idea of the architectural design is reflected in the choice of materials and the way in which the details are joined. The aim is to recognise construction and system-related design rules and to develop details, taking into account the recognised rules of construction. The learning of technical principles is applied in the correct selection, joining and combination of a comprehensible construction that is coordinated with the design concept, with the aim of realising the design approach in the execution.				
3	Contents Using the example of the façade, the "interdependence" of design and construction is taught and practised. In the third semester, under the heading "the first metre", the design and construction characteristics of various existing buildings and situations are worked out in seminars. The importance of the façade as a space-creating and visualising element is taught. The effect and joining of different materials and structures is taught, their regularity recognised and deepened in phases of independent study by working on small exercises. The fourth semester involves applying and reflecting on the content taught in the previous semester. On the basis of their own façade design, which is written using specified rules, students will analyse the design in a three-panel projection (ground plan/view/section) and deepen key details at a scale of 1:20 and 1:5. The details are intended to carry and continue the original design idea. Parallel to the façade design phase, the necessary construction knowledge is taught in alternating lectures and self-study phases.				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: Completion of M 3.1 "Building Construction 1" and M 4.2 "Building Materials Technology"				
6	Type of examination Written examination (120 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Gernot Schulz				
11	Other information:				

Academic year 2

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.4.2	90	6	4.+5.	each SS	2 sem.
1	Courses Supporting structure in building construction (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 120 students
2	Learning outcomes / competences Building on the fundamentals of structural engineering, students learn how to select structural concepts with appropriate materials and how to design and detail them. This involves estimating the component cross-sections using approximate calculations, determining the joining details and fasteners in principle, analysing the spatial stability of the structure, and designing the structural system. of the design, to include its manufacturability and assembly, to ensure its usability.				
3	Contents Contemporary construction methods (timber construction, steel construction, solid construction, lightweight construction and special structures) are analysed with reference to their design-specific properties and requirements and with reference to standards and guidelines. Structures are developed, analysed and optimised by students using suitable digital tools.				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper with presentation (20 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dr.-Ing. Michael Maas				
11	Other information:				

Academic year 2

Building Technology (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.1	90	6	4.+5.	each SS	2 sem.
1	Courses Building services engineering (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 120 students
2	Learning outcomes / competences Mastery of the basics of supply and disposal technology, insight into the topic of thermal comfort and the Energy Saving Ordinance, the special areas of air conditioning technology, Electrical supply and control technology as well as lighting and transport technology				
3	Contents Basics of supply and disposal technology, irrigation and drainage systems, heating technology, energy saving regulations, thermal comfort, integrated building planning, air conditioning technology, electrical supply, control technology, lighting and transport technology				
4	Teaching methods Lecture, seminars, supervised exercises, in M4.2 small group practical course in the building materials laboratory, individual work				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Written exam (120 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Dipl.-Wirtsch.-Ing. Jörg Probst				
11	Other information:				

Academic year 2

Building Technology (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.3	90	6	3.+4.	every WS	2 sem.
1	Courses Building Physics (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 120 students
2	Learning outcomes / competences Knowledge of building regulations and civil law requirements for sound insulation, thermal insulation and moisture protection as well as the basic principles of building physics and mechanisms of action required for design and construction. Further qualification objectives are knowledge of the various insulating materials, the calculation of energy balances within the framework of the EnEV/GEG; the basics of climate-friendly construction, the basics of lighting and daylight and the basics of room acoustics.				
3	Contents Determination of basic thermal parameters, building material technology, building physics criteria for energy-saving construction, energy balancing of buildings, summer thermal insulation, ventilation concepts, component expansion, condensation protection, surface condensation, driving rain protection, sound insulation of interior components, sound insulation of building services systems, sound insulation against external noise, room acoustics.				
4	Teaching methods Lecture, seminars, supervised exercises, in M4.2 small group practical course in the building materials laboratory, individual work				
5	Participation requirements: none				
6	Type of examination Written exam (180 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Volker Huckemann				
11	Other information:				

Academic year 2

Cultural Studies (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.2	90	6	3.+4.	every WS	2 sem.
1	Courses Architectural Theory (WS 2 SWS; SS 3 SWS)		Contact time 24 h WS 36 h SS	Self-study 66 h 54 h	Planned group size 120 students
2	Learning outcomes / competences Teaching the theoretical foundations of architecture required for the study and practice of architecture, from antiquity to the 20th century				
3	Contents Antiquity: Vitruvius Middle Ages: Villard de Honnecourt Renaissance: Alberti, Filarete, Sebastiano Serlio, Palladio Baroque: Christopher Wren, Fischer von Erlach Revolutionary architecture: Boullée, Ledoux Classicism: Schinkel, Semper 19th/20th century: Berlage, Wright, Mies van der Rohe, Kahn, Smithson, Venturi, Kurokawa, Scott Brown, Ungers, Rossi etc. Manifestos of the 20th century: (e.g. futurist manifesto, Le Corbusier, outlook on an architecture) Architecture and ideology: architecture and urban planning in totalitarian states (Italian fascism, National Socialism, etc.)				
4	Teaching methods Lectures, seminars, practical exercises, presentations, self-directed individual and group work. Group work, visits to buildings, guided tours of buildings, visits to urban and open spaces				
5	Participation requirements: none				
6	Type of examination Written exam (120 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dr.-Ing. Karin Lehmann				
11	Other information:				

Academic year 3

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.3.2	180	6	5.	every WS	1 sem.
1	Courses Design 2 (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences The aim of the design module is to teach students the complex process of design. It should enable them to realise tasks spatially, taking into account functional, constructive, aesthetic and social aspects, and to create an architectural whole.				
3	Contents Based on the analysis and the special features of the location, a design idea is to be developed, which is led to an architectural design in various work steps. Using sketches and working models, the individual solutions are discussed in weekly corrections, conceptual aspects are discussed and design and organisational principles are taught. Intermediate and final presentations accompany the design steps and serve to substantiate and communicate the design ideas. The design topic can be selected from the range of design tasks and the associated supervisors. As a rule, the tasks are designed to be completed by individuals in order to encourage personal engagement with the design process.				
4	Teaching methods Lectures/seminars/corrections				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper (draft) with presentation				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Professors of the faculty				
11	Other information: Advanced modules: Design 1-4				

Academic year 3

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.3.3	180	6	6.	every WS	1 sem.
1	Courses Design 3 (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences The aim of the design module is to teach students the complex process of design. It should enable them to realise tasks spatially, taking into account functional, constructive, aesthetic and social aspects, and to create an architectural whole.				
3	Contents Based on the analysis and the special features of the location, a design idea is to be developed, which is led to an architectural design in various work steps. Using sketches and working models, the individual solutions are discussed in weekly corrections, conceptual aspects are discussed and design and organisation principles are taught. Intermediate and final presentations accompany the design steps and serve to substantiate and communicate the design ideas. The design topic can be selected from the range of design tasks and the associated supervisors. As a rule, the tasks are designed to be completed by individuals in order to encourage personal engagement with the design process.				
4	Teaching methods Lectures/seminars/corrections				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper (draft) with presentation				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Professors of the faculty				
11	Other information: Advanced modules: Design 1-4				

Academic year 3

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.5	180	6	6.	each SS	1 sem.
1	Courses Urban planning (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Students will be able to deal with complex urban planning tasks from a conceptual, design and legal perspective.				
3	Contents The module shows the development of urban planning models and their impact on our cities today. Current urban planning design objectives are discussed. This content is applied to specific urban planning tasks in the form of designs and a draft development plan. As a rule, these tasks are carried out in coordination with cities and municipalities.				
4	Teaching methods Weekly lectures, practical exercises on specific urban planning situations and tasks, weekly group supervision				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Portfolio examination (examination element urban design [70%], examination element 15-minute presentation Expert discussion [30%], learning process reflection [unassessed])				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Andreas Fritzen				
11	Other information: Excursions in the urban planning module				

Academic year 3

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.3.1	180	12	5.+6.	every WS	2 sem.
1	Courses Building Construction III (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Students learn the complex interrelationships of energy-efficient and sustainable construction in the individual areas of architecture, from the concept/design to the constructional detail. By learning the basics of certification systems, they will be able to assess products, construction projects and services offered on the market with regard to their energy efficiency and sustainability. evaluate sustainability independently.				
3	Contents In the fifth semester, the conceptual conflicts of objectives in the area of Sustainability assessments are illustrated using the students' own exercise example and worked on in an iterative process. For the developed design, a constructional deepening is carried out with a focus on energy-efficient construction methods with special consideration of the building physics requirements for airtightness and thermal bridge reduction. The free choice of materials for the structural elaboration is then subjected to a critical assessment by means of a selection of variants after an ecological balance sheet evaluation. The knowledge required for the work and the background important for understanding are taught in the lectures. Starting with the historical development of sustainability assessments, through aspects of building physics to the databases and procedures of a life cycle assessment. In the sixth The knowledge gained in the previous semester is transferred to another semester. Utilisation typology (office) to clarify the need for individual energy and sustainability aspects. The analytical thinking and targeted further development of The ability to analyse solution approaches is practised through empirical model studies on the subject of sun protection devices. The understanding of building design is sharpened through a three-dimensional and construction-time representation of typical office building structures. This is also accompanied by a lecture in which The main focus is on the assessment criteria for comfort and the typologically diverse façade solutions.				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1 and additionally M 3.2				
6	Type of examination Portfolio examination (homework 6-8 subtasks [50 %], Examination element 15-minute technical discussion [50%]+ learning process reflection [unassessed]/résumé)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes): not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Christian Schlüter				

11	Other information: Bauko M 3.3.1 (12 CP) can be replaced by M 3.3.2 (6 CP) i.e. from 3rd semester can be taken Prerequisite: >= 12 ECTS are earned abroad
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Academic year 3					
Construction (total credits: 60)					
Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.3.2	180	6	5.	every WS	1 sem.
1	Courses Building Construction III (4 SWS) (Alternative to M3.3.1 only for Semester abroad, only in the winter semester)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences Students learn the complex interrelationships of energy-efficient and sustainable construction in the individual areas of architecture, from the concept/design to the structural detail. By learning the basics of certification systems, they will be able to assess products, construction projects and services offered on the market with regard to their energy efficiency and sustainability. evaluate sustainability independently.				
3	Contents: In the fifth semester, the conceptual conflicts of objectives in the area of Sustainability assessments are illustrated using the students' own exercise example and worked on in an iterative process. For the developed design, a constructional deepening is carried out with a focus on energy-efficient construction methods with special consideration of the building physics requirements for airtightness and thermal bridge reduction. The free choice of materials for the structural elaboration is then subjected to a critical assessment by means of a selection of variants after an ecological balance sheet evaluation. The knowledge required for the work and the background important for understanding are taught in the lectures. Starting with the historical development of sustainability assessments, through aspects of building physics to the databases and procedures of a life cycle assessment. In the sixth The knowledge gained in the previous semester is transferred to another semester. Utilisation typology (office) to illustrate the need for individual energy and energy efficiency measures. Sustainability aspects. The analytical thinking and targeted further development of The ability to analyse solution approaches is practised through empirical model studies on the subject of sun protection devices. The understanding of building design is sharpened through a three-dimensional and construction-time representation of typical office building structures. This is also accompanied by a lecture in which The main focus is on the assessment criteria for comfort and the typologically diverse façade solutions.				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1 and additionally M3.2				
6	Type of examination Portfolio examination (homework 3-4 subtasks [50 %], examination element 15-minute technical discussion [50 %] + learning process reflection [unassessed]/résumé)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes): not planned				
9	Value of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Christian Schlüter				

11	Other information:
	Bauko M 3.3.2 (6 CP) can replace M 3.3.21 (12 CP), i.e. can be taken from the 3rd semester onwards Prerequisite: >= 12 ECTS credits are earned abroad

Academic year 3					
Construction industry (total credits: 24)					
Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.1	180	6	5.	every WS	1 sem.
1	Courses Construction industry/construction costs (5 SWS)		Contact time 60 h	Self-study 120 h	Planned group size 120 students
2	Learning outcomes / competences Knowledge of the implementation skills required for the study and practice of architecture in the planning and realisation of projects. In-depth studies and specialisations are offered in elective modules				
3	Contents In addition to the design and drafting subjects, lectures and seminar exercises in the subject area of construction management I construction costs teach the necessary implementation skills in the classic areas of responsibility in the planning of construction tasks: HOAI - architects' fees: the most important points of the statutory fee regulations for architects and engineers are taught.				
4	Teaching methods Lectures, practical exercises on the PC, post-processing with the help of weekly, individual supervision of work, office internship				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Written exam (75 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Klaus Legner (Internship supervisor)				
11	Other information: Details on the examination modalities: see examination regulations				

Academic year 3

Construction industry (total credits: 24)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.2	180	6	6.	each SS	1 sem.
1	Courses Construction Management (6 SWS)		Contact time 72 h	Self-study 108 h	Planned group size 120 students
2	Learning outcomes / competences Knowledge of the implementation skills required for the study and practice of architecture in the planning and realisation of projects. In-depth studies and specialisations are offered in elective modules				
3	Contents In addition to the design and drafting subjects, lectures and seminar exercises in the field of construction management teach the necessary implementation skills in the classic fields of activity involved in the realisation of a construction project: Cost calculation methods: The series of topics shows methods for recording and evaluating costs in building construction at different levels of detail. In addition, programmes are explained in which construction costs can be tracked from the "status quo" of the cost estimate through to the handover of the property. Planning the planning, LPH 2-5: The structured approach from the organisation of an office to the execution of a project is explained using specific case studies Tendering - awarding - invoicing, LPH 6-7: Textual planning in the form of service specifications are presented in basic terms. Project supervision LPH 8: The aim of the module is to illustrate the most common errors on the construction site and to highlight the risks, obligations and rights of an architect in charge of construction, taking into account the VOB, DIN standards and the "generally recognised rules of technology". - Network planning technique: With the help of project execution and construction schedules, project-specific processes, time control mechanisms and corrective measures are conveyed and clearly illustrated using built examples. - An excursion to current, interesting construction sites in the region rounds off the two-semester compulsory module in the summer semester.				
4	Teaching methods Lectures, practical exercises on the PC, post-processing with the help of weekly, individual supervision of work, office internship				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1 and M 6.1 Construction Industry I Construction Costs				
6	Type of examination Written exam (75 min., written form, at the university)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Klaus Legner (Internship supervisor)				
11	Other information:				

Academic year 3

Construction industry (total credits: 24)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.3	180	12	6.+7.	each SS	2 sem.
1	Courses Office internship supervised		Contact time 0 h	Self-study 360 h	Planned group size 1 Student:In
2	Learning outcomes / competences Application of the knowledge and skills acquired in the previous degree programme, testing for the Recognise typical problems and tasks in practice and reflect on experience gained in practical work				
3	Contents Individual organisation of an internship, exercise / assistance with typical activities in all HOAI phases				
4	Teaching methods Office internship (320 office hours, plus preparation/follow-up)				
5	Participation requirements: PO § 13: The prerequisite for the internship is the completion of the basic studies. Before the start of the internship, the student must conclude a contract with the employer in consultation with the internship coordinator in accordance with the departmental model, which regulates the rights and obligations of both parties. On the basis of the employer's certificate of the internship completed in accordance with the contract or on the basis of the certificates referred to in paragraph 2, the internship coordinator shall issue a certificate recognising the internship.				
6	Type of examination No test - proof of implementation required (see 5.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 0				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Klaus Legner (Internship supervisor)				
11	Other information: Can also be taken abroad or replaced by modules abroad				

Academic year 4

Design (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.3.4	180	6	3.,4.,5.,6.	every WS+SS	1 sem.
1	Courses Design 4 (4 SWS)		Contact time 48 h	Self-study 132 h	Planned group size 120 students
2	Learning outcomes / competences The aim of the design module is to teach students the complex process of design. It should enable them to realise tasks spatially, taking into account functional, constructive, aesthetic and social aspects, and to create an architectural whole.				
3	Contents Design 4 (like M2.3.3., but taken at a foreign university or supervised by a foreign lecturer)				
4	Teaching methods Evaluation and commenting on individual work				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper (draft) with presentation				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Foreign lecturer				
11	Other information: Advanced modules: Design 1-4				

Academic year 4

Construction (total credits: 60)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.5	360	12	7.	every WS+SS	1 sem.
1	Courses Constructive project (8 SWS)		Contact time 96 h	Self-study 264 h	Planned group size 80 students
2	Learning outcomes / competences The constructive project is a compulsory interdisciplinary assignment for all students at the End of the degree programme. The aim of this thesis is to provide an example of the Dealing with the complexity of architectural planning as realistically as possible and under Involving the specialist engineering disciplines involved in planning and construction. Before the Against the background of predominantly subject-related knowledge, this interdisciplinary project is of central importance for the practical relevance of the degree programme. It thus prepares students for the integral planning approach that is indispensable in practice.				
3	Contents A design is to be worked out in individual work or in groups of 2 to the stage of implementation planning (work planning M 1.50) and detailed planning (M 1.25 / 20 / 10 / 5 / 1) as practically as possible. The project is co-supervised by the subjects Building Construction and Structural Design (compulsory) and the subjects Technical Building Services, Building Physics, Construction Management and Costs in Building Construction (at least 2 subjects).				
4	Teaching methods Lectures, practical exercises with the help of weekly corrections of the individual work steps, working on exercises in individual work or groups, independent work on tasks, weekly supervised design and construction exercises				
5	Participation requirements: # Completion of basic studies; additionally M2.3.1; M2.3.2, M3.3.1/3.3.2, M3.4.2, M4.1, M4.3				
6	Type of examination Term paper with presentation (30 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 12/243				
10	Module coordinator and full-time lecturers Prof Christian Schlüter, Prof Achim Pfeiffer, Prof Dr Michael Maas, Prof Volker Huckemann; Prof Jörg Probst; Prof Klaus Legner				
11	Other information: (or 6th semester, 7th semester if studying abroad)				

Academic year 4**Building Technology** (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.4	90	3	7.	every WS	1 sem.
1	Courses Building damage analysis /Energetic Building analysis (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 120 students
2	Learning outcomes / competences Basic knowledge of building law contexts and liability, methods and analytical skills in dealing with typical construction defects and damage to old and new buildings as a result of inadequate planning, inadequate monitoring of execution or natural ageing. Knowledge of the legal requirements of construction in existing buildings and energy-efficient refurbishment; familiarisation with building regulations.				
3	Contents Fundamentals of contract law, acceptance, notification of defects, building material technology, handling measuring instruments (e.g. climate, moisture); components in contact with the ground, drainage, exterior walls, windows, doors, roofs, roof terraces, balconies, ceilings, floors, interior walls. Fundamentals of mould formation and control, energy requirements for extensions and conversions, questions of economic efficiency.				
4	Teaching methods Lectures, seminars, supervised exercises				
5	Participation requirements: Completion M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper with presentation				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Volker Huckemann				
11	Other information: or 8th semester, if studying abroad in the 7th semester				

Academic year 4

Cultural Studies (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.3	90	3	8.	each SS	1 sem.
1	Courses Foreign language Specialised communication (2 SWS)		Contact time 24 h	Self-study 66 h	Planned group size 20 students
2	Learning outcomes / competences Architects I: simple communication with a focus on: Everyday life and work. Architects II: Communication on specialised topics and presentation of own architectural projects.				
3	Contents Architects I: Development of basic grammatical knowledge and a basic vocabulary. Architects II: Expansion of vocabulary with regard to the specialised field of architecture. Refreshing typical grammatical problem areas.				
4	Teaching methods Lectures, seminars, practical exercises, presentations, self-directed individual and group work. Group work, visits to buildings, guided tours of buildings, visits to urban and open spaces				
5	Participation requirements: Classification date in "Architects I" or "Architects II"				
6	Type of examination Oral examination (20 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Academic year 4**Cultural Studies** (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.4	90	3	8.	every WS+SS	1 sem.
1	Courses Presentation, moderation, Negotiation (3 SWS)		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Students are familiar with the occasions and importance of direct, personal communication in architectural studies and professional practice. They are each provided with specific methods and working techniques in order to be able to act in a goal-orientated and results-oriented manner. With a view to the diversity of (future) dialogue partners, they take into account the potential of different interests and different language levels when dealing with architecture-related content. Students can prepare and conduct presentations followed by a discussion. They have initial experience in leading discussions and moderating working groups as well as negotiating controversial interests. The module aims to improve communication skills in a specialist context.				
3	Contents Presentation: - Presenting and explaining work results and facts in free speech and according to aspects of good comprehensibility, - Design features and use of suitable visualisations, - Dealing with questions and controversial points of view, - Confident demeanour, handling bias. Moderation: - Role in leading the discussion or as a moderator - Opinion-forming and decision-making in groups - Discussion and image-orientated methods, use of moderation media - activating participants, promoting creativity and initiative Negotiation management: - Typical behavioural patterns with divergent interests - Significance of factual and relationship level in the event of deviations - Method and process of cooperative solution finding: recognising and using scope for negotiation, achieving viable solutions.				
4	Teaching methods Lectures, seminars, practical exercises, presentations, self-directed individual and group work. Group work, visits to buildings, guided tours of buildings, visits to urban and open spaces				
5	Prerequisites for participation: Completion of M1.1; M1.2; M2.1; M2.4; M3.1; M3.4.1; M4.2; M5.1				
6	Type of examination Term paper with presentation				
7	Requirements for the awarding of credit points Examination graded at least "sufficient" Continuous, active participation in the course				
8	Use of the module (in other degree programmes): not planned				
9	Value of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof Dr Andrea Mohnert				
11	Other information:				

Academic year 4

Cultural Studies (total credits: 21)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.5	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Excursions		Contact time 48 h	Self-study 42 h	Planned group size 20-40 students
2	Learning outcomes / competences Students should familiarise themselves with architecture in context.				
3	Contents Seminar-based preparation, several days travelling to places / areas with current Architectural projects, possibly also historical architecture, study of architecture through visits, guided tours, graphic or photographic reflections and documentation, study of the cultural and cultural heritage of the city. environment				
4	Teaching methods Lectures, seminars, practical exercises, presentations, self-directed individual and group work. Group work, visits to buildings, guided tours of buildings, visits to urban and open spaces				
5	Participation requirements: none				
6	Type of examination Term paper				
7	Requirements for the awarding of credit points Examination graded at least "sufficient" Active participation				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 0				
10	Module coordinator and full-time lecturers Various teachers				
11	Other information:				

Academic year 4

Thesis (total credits: 18)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M7.1	180	6	8.	every WS+SS	1 sem.
1	Courses Thesis Seminar		Contact time 48 h	Self-study 132 h	Planned group size 60 students
2	Learning outcomes / competences Theoretical reflection on the thesis topic				
3	Contents Teaching of introductory theoretical principles, guidance on how to access relevant project information, guidance on scientific work				
4	Teaching methods Seminar				
5	Participation requirements: Completion of all examinations of the basic and main study programme except for one elective module, M 5.3 and M 5.4 (see also PO § 17 para. 4), confirmation of participation for excursions and practical training (M 5.5 + M 6.3)				
6	Type of examination No examination / participation required				
7	Requirements for the awarding of credit points Completion of module M7.2				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 0				
10	Module coordinator and full-time lecturers Various lecturers				
11	Other information:				

Academic year 4

Thesis (total credits: 18)

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M7.2	360	12	8.	every WS+SS	1 sem.
1	Courses Bachelor thesis and colloquium		Contact time 0 h	Self-study 360 h	Planned group size 60 students
2	Learning outcomes / competences The Bachelor's thesis should demonstrate that the candidate is able to work independently on a challenging task within a specified period of time and present the results clearly and comprehensibly.				
3	Contents The Bachelor's thesis consists of the independent completion of a relevant task in the field of architecture, which is suitable for demonstrating the confident handling of artistic-design and/or engineering working methods and knowledge. The solution includes detailed documentation of the work and the result. In suitable cases, the Bachelor's thesis can also be a written work with theoretical content (max. 75 pages without appendices). The written presentation must be preceded by a summary of max. two pages DIN A4.				
4	Teaching methods unsupervised work				
5	Participation requirements: Completion of all examinations of the basic and main study programme except for M 5.3 and M 5.4 (see PO § 17 para. 4; M5.3 and M5.4 must be completed for the colloquium) as well as confirmation of participation in excursions and internship (M 5.5 + M 6.3)				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 36/243				
10	Module coordinator and full-time lecturers Various teachers				
11	Other information:				

Compulsory elective modules, catalogue A

Design expertise

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.3.1	90				
1	Courses Computational Design		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of special methods of architectural design with algorithmic Calculation processes and complex 3D modelling, exemplary applications of what has been learned under the specifications formulated in the task				
3	Contents The subject of this module is an introduction to the topic of computational design (designing with algorithms) on the basis of an architectural design topic. Examples of areas of application are advanced modelling in 3D modelling programs (Archicad and Rhinoceros3D), algorithmic working methods using visual programming interfaces (Grasshopper) and the combination of design methods with simulation tools and digital fabrication.				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Term paper with oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Sven Pfeiffer				
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.3.2	90				
1	Courses 3D visualisation		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of the digital visualisation of a building model with the necessary techniques for texturing and lighting. Exemplary applications of what has been learnt under the specifications formulated in the task.				
3	Contents The subject of this module is an introduction to current visualisation programs. The export of existing CAD models to a visualisation program and the use of suitable material textures and light sources for real-time photorealistic representation are practised in several workshops.				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Term paper with oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.3.3	90				
1	Courses Virtual / Augmented Reality		Contact time 36 h	Self-study 54 h	Planned group size 20 students

2	Learning outcomes / competences Basic knowledge of virtual and augmented reality methods. Exemplary applications of what has been learnt under the specifications formulated in the task.
3	Contents The subject of this module is an introduction to virtual and augmented reality methods. Based on a task, an overview of current applications is given using various headsets and a practical application is developed in an architectural project.
4	Teaching methods According to information at the beginning of the semester
5	Participation requirements: none
6	Type of examination Term paper with oral examination (15 min.)
7	Requirements for the awarding of credit points Examination graded at least "sufficient"
8	Use of the module (in other degree programmes) not planned
9	Importance of the grade for the final grade: 3/243
10	Module coordinator and full-time lecturers Lecturer
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.4.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Architectural photography and film	Contact time 36 h	Self-study 54 h	Planned group size 20 students	
2	Learning outcomes / competences Basic knowledge of methods of architectural photography and working with film techniques. Exemplary applications of what has been learnt under the requirements formulated in the assignment.				
3	Contents The subject of the elective module is an overview of the historical development of photography and film (technology, styles) as well as geometric imaging principles, image composition and the use of colour in these media. The use of film editing software is practised by creating short films.				

4	Teaching methods Seminar in the PC pool
5	Participation requirements: none
6	Type of examination Term paper with oral examination (15 min.)
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"
8	Use of the module (in other degree programmes) not planned
9	Importance of the grade for the final grade: 3/243
10	Module coordinator and full-time lecturers Lecturer
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/

Compulsory elective modules, catalogue A, design competence					
Design and presentation					
Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.4.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Digital image processing I		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of basic methods of digital image processing. Exemplary applications of what has been learnt under the specifications formulated in the task.				
3	Contents The subject of the elective module is an introduction to the basics of digital image processing based on a given topic. Basic techniques for working with layers, masks and filters are taught using predefined task steps				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				

6	Type of examination Term paper with oral examination (15 min.)
7	Requirements for the awarding of credit points Examination graded at least "sufficient"
8	Use of the module (in other degree programmes) not planned
9	Importance of the grade for the final grade: 3/243
10	Module coordinator and full-time lecturers Lecturer
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.4.3	90				
1	Courses Digital image processing II		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of special methods of digital image processing. Exemplary applications of what has been learnt under the specifications formulated in the task.				
3	Contents The subject of the elective module is the teaching of advanced techniques and workflows of digital image processing based on a given topic. Layer combinations, complex masks and filters are used to create architectural representations				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				

11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/
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Compulsory elective modules, catalogue A, design competence					
Design and presentation					
Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.4.4	90				
1	Courses Digital animation		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of special methods of digital animation, exemplary applications of the Learned under the specifications formulated in the task				
3	Contents The subject of the elective module is an introduction to digital animations based on an architectural design topic. Techniques of modelling and animation, simulation, rendering s, compositing and motion tracking are taught in workshops.				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS 3	Study term 3.-8.	Frequency of the offer every WS+SS	Duration 1 sem.
M1.4.5	90				
1	Courses Interactive visualisation		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of special methods of digital interactive visualisation, exemplary applications of what has been learned under the specifications formulated in the task.				
3	Contents The subject of the elective module is the correlation between architectural design and interactive visualisation. Students are introduced to methods for visualising spatial changes and real-time data. A small architectural media installation and its interactive presentation are developed in several workshops.				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information: https://www.hochschule-bochum.de/fba/team/kollegium/pfeiffer-sven/				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.5	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Freehand drawing		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Extension of the knowledge of freehand drawing acquired in the foundation course, with the aim of training the skills of quick architectural sketching.				
3	Contents Topic: Space and people, sketching architectural spaces, nude drawing, sketching in outdoor spaces				
4	Teaching methods Seminar, practical exercises, supervision of theoretical and practical tasks				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.6	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Plastic design		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Teaching a differentiated perception of materials and space, which is promoted through sculptural design.				
3	Contents Overview of the development of sculpture from antiquity to the 21st century. Fundamentals of sculptural design Working out a sculpture in stone in February during a compact seminar Applications of natural stone in architecture				
4	Teaching methods Seminar, practical exercises, compact seminar, supervision of theoretical and practical exercises Tasks				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dr.-Ing. Karin Lehmann				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.2.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of building theory		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. André Habermann				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.6	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Interior design		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents The subject of the seminar is the study of space. - How can you condense a space, how can you dissolve it? - How can a spatial effect be achieved? With the help of simple tasks, the students examine the physical effect of a room, the anchoring of the room in its surroundings, the influence of light and colour, structure and material, smell.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.7.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of architecture 1		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.7.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of architecture 2		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.7.3	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of architecture 3 (abroad)		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences The module is completed at a foreign university or taught at the home university by a foreign lecturer. Teaching objectives as specified by the respective lecturer.				
3	Contents The module is completed at a foreign university or taught at the home university by a foreign lecturer. Contents as specified by the respective lecturer.				
4	Teaching methods According to information at the beginning of the semester				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Guest lecturer (abroad)				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.8	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Open space planning		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Raising awareness of the issues surrounding open spaces such as squares, parks, gardens and landscapes. Recognise urban development and open space planning contexts. Perceiving spaces and their moods. Materiality, equipment, utilisation requirements for open spaces. Historical overview of the history of garden design, categorisation of historical parks in stylistic periods and understanding of the respective social contexts. Use plants as a design element.				
3	Contents Overview of historical gardens and parks, promenades Parks and squares Plants as landscape architectural design elements Materials in landscape architecture				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Burkhard Wegener				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.9.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Monument preservation		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods According to information at the beginning of the semester				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.6.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 1		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods According to information at the beginning of the semester				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.6.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 2		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods According to information at the beginning of the semester				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.6.3	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 3		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods According to information at the beginning of the semester				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue A, design competence

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M5.7	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Photoshop / Plan layout		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Learning special techniques of working with digital image processing, post-processing of renderings and plan materials, exemplary applications of what has been learnt under the specifications formulated in the task.				
3	Contents Working with layer structures, masks, colour corrections in Photoshop, image composition				
4	Teaching methods Seminar in the PC pool				
5	Participation requirements: none				
6	Type of examination Term paper				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Sven Pfeiffer / Prof. Dipl.-Ing. Burkhard Wegener				
11	Other information:				

Compulsory elective modules, Catalogue B

Implementation **expertise**

Compulsory elective modules, catalogue B, implementation skills

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.3.4	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Advanced CAD course		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Construction of non-orthogonal constructions, so-called "blobs" Working with 3D printers				
3	Contents Overview of contemporary data- and model-based concepts of digital design, planning and construction: BIM, parametric design, generative design, evolutionary optimisation, form-finding, machine learning. Overview of software used: Archicad, Rhino and programming interfaces. Familiarisation with Archicad, Rhino and Grasshopper. Creation of own generative designs and models.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Sven Pfeiffer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M1.3.5	90	3	3.-8.	every WS+SS	1 sem.
1	Courses BIM Building Information Modelling		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Oral examination (15 min.)				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Design and presentation

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M2.9.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Building survey		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturer Lecturer N.N.				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.6	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Renovation of old buildings / building in Stock		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences The students are enabled to develop new, future-orientated Develop utilisation concepts for existing buildings and implement them conceptually in existing buildings. The special features of structural design aspects are taught, particularly with regard to energy modernisation. Simple methods for a rough assessment of the economic efficiency in comparison to a new construction project are learnt.				
3	Contents The future of construction lies in existing buildings. The majority of buildings used in the future already exist today. From the point of view of resource efficiency, it is desirable to utilise as much of the existing building fabric and infrastructure connections as possible and to upgrade the building stock through conversions and energy-efficient renovations. In the course of energy upgrades, it is also important to adapt the structure of the existing buildings to current and future requirements. The explanation of these interrelationships and the in-depth communication of the knowledge required for this are taught and practised in seminar form, building on the knowledge gained in the subjects of the foundation course, by working on an example project. The practical relevance conveyed in this way is underlined by the obligatory cost comparison between modernisation solutions and equivalent new construction solutions.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Achim Pfeiffer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M3.7	90	3	3.-8.	every WS+SS	1 sem.

1	Courses Environmentally friendly construction	Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester			
3	Contents Alternating / According to information at the beginning of the semester			
4	Teaching methods Seminar			
5	Participation requirements: none			
6	Type of examination Term paper with presentation of the main contents			
7	Requirements for the awarding of credit points Examination graded at least "sufficient"			
8	Use of the module (in other degree programmes) not planned			
9	Importance of the grade for the final grade: 3/243			
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Christian Schlüter			
11	Other information:			

Compulsory elective modules, catalogue B, implementation skills

Building technology

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.5	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of the Structural design		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Increased competence in special areas of structural design. Increasing the ability to criticise the planning by the specialist engineer.				
3	Contents Individual specialisation in special areas of structural design to be coordinated.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturer Prof Dr Michael Maas				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Building technology

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.6	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of building physics / Noise protection		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of the legal requirements for noise immission control and the methods of noise immission prediction used in practice, ability to plan effective measures to reduce noise immissions				
3	Contents Laws, ordinances, regulations of immission control Basic parameters/labelling of sound immission control Assessment methods, sound sources, sound propagation and sound shielding Methods of sound immission prediction				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Volker Huckemann				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Building technology

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.7	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of building physics / Room acoustics		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Knowledge of room acoustic mechanisms, ability to plan the room acoustics of lecture and meeting rooms as well as noise reduction measures in industrial and commercial premises				
3	Contents Room acoustics regulations Basic parameters of room acoustics Assessment methods Sound sources, sound propagation in rooms, sound fields, room acoustic design				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Volker Huckemann				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Building technology

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M4.8	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Special areas of building technology		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences According to information at the beginning of the semester				
3	Contents Expertise in determining the heating and cooling loads as well as the ventilation requirements of a building or building complex and developing a comprehensive energy concept, taking into account the legal framework.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Dipl.-Wirtsch.-Ing. Jörg Probst / Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction industry

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.4.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Architectural law 1		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Legal knowledge for the study and practice of architecture				
3	Contents In the compulsory elective module Architectural Law, four block seminars provide knowledge about the architectural law. They help students to protect themselves contractually, enforce their fee claims and minimise the risk of liability in the event of damages				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction industry

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.4.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Architectural law 2		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Legal knowledge for the study and practice of architecture				
3	Contents In the compulsory elective module Architectural Law, four block seminars provide knowledge about the architectural law. They help students to protect themselves contractually, enforce their fee claims and minimise the risk of liability in the event of damages				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded with at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction industry

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.5	90	3	3.-8.	every WS+SS	1 sem.
1	Courses AVA Tendering / Awarding / Billing		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences The AVA elective module teaches the skills required to describe planning services clearly and exhaustively against the background of VOB/B+C and to clearly structure and fully compile invitations to tender				
3	Contents The students' understanding of construction economics is sharpened. The aim is to plan in a cost-conscious manner and to put out to tender in a cost-conscious manner. Methods are taught to record construction costs in detail at a very early stage and at the same time to lay the foundations for subsequent tenders. Software programmes are presented that make the working method much easier and allow individual construction methods to be compared at the design stage by generating rough specifications. Procedures are presented with which partial or complete services of a construction project can be awarded to one or more contractors (general contractor tendering). In addition to the correct choice of tendering procedure, it is also important to choose the right award procedure, which is proposed to the client against the background of the EU directives.				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Prof. Dipl.-Ing. Klaus Legner				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction industry

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.6	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Construction costs - in-depth		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences The aim is to teach students to think holistically about costs in relation to all cost groups and to discuss the advantages and disadvantages of different calculation methods. Cost planning refers not only to the determination methods, but also to control mechanisms and cost control options.				
3	Contents In order to be able to act efficiently in the field of cost planning in building construction and thus to be permanently capable of acting, sophisticated procedures for construction cost planning, monitoring and control are available on the basis of different and currently amended standards and guidelines. These are illustrated using practical examples. They fulfil the following requirements: - high transparency - Consistent reference values from cost estimation to cost approval - Evaluation of alternatives / planning and cost update - Good cost control options during the entire project duration - Consideration of utilisation costs (operating costs) Furthermore, an overview of all relevant standards and regulations as well as possible Interfaces to scheduling / cash outflow planning / fee calculation / AVA etc. provided				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Construction industry

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.7	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Project management / Project development		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.8.1	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 4		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents Alternating / According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.8.2	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 5		Contact time 36 h	Self-study 54 h	Planned group size 20 students
2	Learning outcomes / competences Alternating / According to information at the beginning of the semester				
3	Contents According to information at the beginning of the semester				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 3/243				
10	Module coordinator and full-time lecturers Lecturer				
11	Other information:				

Compulsory elective modules, catalogue B, implementation skills

Identification number	Workload/ Sem.	ECTS	Study term	Frequency of the offer	Duration
M6.8.3	90	3	3.-8.	every WS+SS	1 sem.
1	Courses Supplementary subject 6 (abroad)		Contact time 36 h	Self-study 144 h	Planned group size 20 students
2	Learning outcomes / competences Changing / As specified at the beginning of the semester or by the foreign university				
3	Contents As specified at the beginning of the semester or by the foreign university				
4	Teaching methods Seminar				
5	Participation requirements: none				
6	Type of examination Term paper with presentation of the main contents				
7	Requirements for the awarding of credit points Examination graded at least "sufficient"				
8	Use of the module (in other degree programmes) not planned				
9	Importance of the grade for the final grade: 6/243				
10	Module coordinator and full-time lecturers Guest lecturer or teacher at the foreign university				
11	Other information:				

Study plan sorted by academic year

P	O	Compulsory modules		LP	LP	LP	LP	LP	LP	LP	LP	LP					
2018		Semester:	1	2	3	4	5	6	7	8							
M 1.1	Academic year 1 Design basics	6	6	T	T/P								60				
M 1.2	Digital media, CAD	6	3	T	T/P								9				
M 2.1	Design basics	6	6	T	T/P								12				
M 3.1	Building construction 1	6	6	T	T/P								12				
M 3.4.1	Structural analysis		3		T								3				
M 4.2	Building materials technology	3	3	T	T/P								6				
M 5.1	Building history	3	3	T	T/P								6				
M 2.2	Academic year 2 Building theory				6	6	T	T/P					57				
M 2.3.1	Design 1					6		T/P					6				
M 2.4	Fundamentals of urban planning				6	T/P							6				
M 3.2	Building construction 2				6	6	T	T/P					12				
M 3.4.1	Structural analysis				3			T/P					3				
M 3.4.2	Load-bearing structures in building construction					3		T					3				
M 4.1	Building technology					3		T					3				
M 4.3	Building physics				3	3	T	T/P					6				
M 5.2	Architectural theory				3	3	T	T/P					6				
M 2.3.2	Academic year 3 Design 2						6		T/P				54				
M 2.3.3	Design 3							6		T/P			6				
M 2.5	Urban development							6		T/P			6				
M 3.3.1	Bauko 3 Nachhalt. Building and construction					6		6	T	T/P			12				
M 3.3.2	Bauko 3 (alternative only for semester abroad)																
M 3.4.2	Load-bearing structures in building construction							6		T/P			6				
M 4.1	Building technology					3			T/P				3				
M 6.1	Construction industry / construction costs					6			T/P				6				
M 6.2	Construction management							6		T/P			6				
M 6.3	Supervised office internship, 8 weeks							6		B			6				
M 2.3.4	Academic year 4 Design 4 (abroad or foreign lecturer)									6		T/P	54				
M 3.5	Constructive project												6				
M 4.4	Building damage analysis / Energ. Building analysis											12	3				

M 5.3 M 5.4	Foreign language specialised communication Moderation, presentation, negotiation management				(*)	(*)	(*)	(*)	(*)	(*)	3	P	3	3	(*)	(*)			3	T/P			3	T/P	
M 5.5 M 6.3	Excursions (incl. sem. prep.) Supervised office internship, 8 weeks				(*)	(*)	(*)	(*)	(*)	6	3	B	3	6	(*)	(*)			3	T/P			3	T/P	
M 7.1 M 7.2	Thesis - Seminar Bachelor - Thesis and colloquium										6	12	6	12					6	12			6	12	
WM	Compulsory elective modules																								
	Minimum scope of 15 LP of which at least 9 LP from Cat. A, 6 LP from Cat. B				3	(*)	T	(*)	6	T/P	(*)	3	T/P	3	T/P	15	6	T/P	(*)	9	T/P	3	T/P	21	T/P
Bachelor's programme totals		30	30	30	3030303030										240	30	30	30	30	30					

	(*)	Compulsory elective modules may be "brought forward".																	(**)	Bauko M 3.3.1 (12 CP) is replaced by M 3.3.2 (6 CP)
		i.e. to be taken from the 3rd semester onwards																		Prerequisite: >= 12 ECTS are earned abroad
		This also applies to the compulsory modules M 5.3, M 5.4, M 5.5																		M 3.5 Constr. project brought forward
																				from the 7th to the 6th semester
																			(***)	M 6.3 can also be done abroad
																				or replaced by modules abroad
																				become

Study plan sorted by modules

												Mobility window in the 7th semester (A)				(B)
P O	Bachelor's degree programme in Architecture	1	2	3	4	5	6	7	8	TOTAL	5	6	7	8	7	
Module	Compulsory modules	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP	
M 1.1	Design and presentation Design basics	12 6	9 6	T/P							21 12					
M 1.2	Digital media, CAD	6	3	T/P							9					
M 2.1	Design Design basics	6 6	6 6	T/P	12	12	6	12	6		60 12	6	12	6	6	
M 2.2	Building theory				6	6	T/P				12					
M 2.3.1	Design 1				6	6	T/P				6					
M 2.3.2	Design 2					6	T/P				6	6	T/P			
M 2.3.3	Design 3							6	T/P		6		6	T/P		
M 2.3.4 M 2.4	Design 4 (abroad or foreign lecturer) Fundamentals of urban planning			6					6	T/P	6 6		6	T/P	6 T/P	
M 2.5	Urban development							6	T/P		6		6	T/P		
M 3.1	Construction Building construction 1	6 6	9 6	T/P	9	9	9	6	12		60 12	9	12			
M 3.2	Building construction 2				6	6	T/P				12					
M 3.3.1	Bauko 3 Nachhalt. Building and construction						6	T	6	T/P	12					
M 3.3.2 M 3.4.1	Bauko 3 (alternative only for semester abroad) Structural analysis											6	T/P	(**)		
M 3.4.2	Load-bearing structures in building construction		3	T	3	T/P					6					
M 3.5	Constructive project				3	T	3	T/P			6	3	T/P			
M 4.1	Building technology Building technology	3	3	3	6	3	T	3	T/P		21 6	3	T/P		3	
M 4.2	Building materials technology	3	3	T/P							6					
M 4.3	Building physics				3	T	3	T/P			6					
M 4.4	Building damage analysis / Energ. Building analysis								3	T/P	3			3	T/P	
M 5.1	Cultural studies Building history	3 3	3 3	T/P	3	3			0	9	21 6			3	6	
M 5.2	Architectural theory				3	T	3	T/P			6					
M 5.3 M 5.4	Foreign language specialised communication Moderation, presentation, negotiation management				(*)	(*)	(*)	(*)	(*)	(*)	3 3		3	T/P	3 T/P	
M 5.5	Excursions (incl. seminar preparation)				(*)	(*)	(*)	(*)	(*)	3	B	3		3	B	
M 6.1	Construction industry/construction management Construction industry / construction costs					6	T/P	12	6		24 6	6	T/P	6	12	
M 6.2	Construction management							6	T/P		6		6	T/P		

M 6.3	Supervised office internship, 8 weeks						6	B	6	3	B				12									12B (***)						
WM	Compulsory elective modules			3		6						3			15	6					9			3					21	
	Minimum scope of 15 LP			3		6	T/P			3	T/P	3	T/P		15	6	T/P				9	T/P	3	T/P			21	T/P		
	thereof 9 LP from Cat. A, 6 LP from Cat. B														0															
M 7 M 7.1	Thesis Thesis - Seminar											18 6	B		18 6									18 6	B					
M 7.2	Bachelor - Thesis and colloquium											12	T/P		12									12	T/P					
Bachelor's degree programme totals		30	30	30	30	30	30	30	30	30	30	30	30	30	240	30	30	30	30	30	30	30	30	30	30	30	30			

Compulsory elective modules

Compulsory elective modules														Explanation	gen														
	Catalogue A of compulsory elective modules - Design expertise -	LP								CATALOGUE B of the compulsory elective modules - Implementation expertise -	LP																		
M 1.3.1	Computational Design	3	T/P		M 1.3.4	Advanced CAD course				3	T/P														"LP" =	"Leistungspunkt" / "Credit Point"			
M 1.3.2	3D visualisation	3	T/P		M 1.3.5	BIM Building Information Modelling				3	T/P														ECTS =	"European Credit Point Transfer and Accumulation System"			
M 1.3.3	Virtual / Augmented Reality	3	T/P		M 2.9.2	Building survey				3	T/P																		
M 1.4.1	Architectural photography and film	3	T/P		M 3.6	Renovation of old buildings / building in existing structures				3	T/P																		
M1.4. 2	Digital image processing I	3	T/P		M 3.7	Environmentally friendly construction				3	T/P					1 LP =										(30 hours workload)			
M1.4. 3	Digital image processing II	3	T/P		M 4.5	Special areas of structural design				3	T/P					B =										Certified, ungraded			
M1.4. 4	Digital animation	3	T/P		M 4.6	Special areas of building physics / noise protection				3	T/P																Participation		
M 1.5	Freehand drawing	3	T/P		M 4.7	Special areas of building physics / room acoustics				3	T/P					T =										Test (ungraded partial performance)			
M 1.6	Plastic design	3	T/P		M 4.8	Special areas of building technology				3	T/P					P =										Examination			
M 2.2.1	Special areas of building theory	3	T/P		M 6.4.1	Architectural law 1				3	T/P					T/P =										Examination			
M 2.3.5	Conceptual design (web maturity)	3	T/P		M 6.4.2	Architectural law 2				3	T/P																after presentation of all test certificates		
M 2.6	Interior design	3	T/P		M 6.5	AVA: Tendering / awarding / invoicing				3	T/P																The modules M 5.3 and M 5.4		
M 2.7.1	Special areas of architecture 1	3	T/P		M 6.6	Construction costs - in- depth				3	T/P																are key qualifications.		
M 2.7.2	Special areas of architecture 2	3	T/P		M 6.7	Project management / project development				3	T/P																Not all		
M 2.7.3	Special fields of architecture 3 (abroad)	6	T/P		M 6.8.1	Supplementary subject 4				3	T/P																Compulsory elective modules		
M 2.8	Open space planning	3	T/P		M 6.8.2	Supplementary subject 5				3	T/P																	offered every semester.	
M 2.9.1	Monument preservation	3	T/P		M 6.8.3	Supplementary subject 6 (abroad)				6	T/P																		
M 5.6.1	Supplementary subject 1	3	T/P																										
M 5.6.2	Supplementary subject 2	3	T/P																										
M5.6. 3	Supplementary subject 3	3	T/P																										
M 5.7	Photoshop/Plan layout	3	T/P																										