

Modul Handbook

Bachelor Program

Architecture

8 Semesters

Module description for SPO B AR 2016 / from April 2016-10-05

1. Preface

This Module handbook consists of the study and examination plan of the Bachelor program in Architecture at the University of Applied Sciences and Arts Coburg (SPO B AR) according to the version from 1.10.2016. and describes the content of the aforementioned modules.

The modules are arranged in chronological order following the course of study. A graphical overview is shown in the study plan (see Annex).

2. Duration of studies and professional profile

The studies last 8 semesters and are concluded with the academic degree "Bachelor of Arts" (B.A.). The degree is a professional qualification and represents a prerequisite for the practice of the profession of an architect according to the regulations of the Federal Republic of Germany and the Member States of the European Community. Hereon, it should be noted that with the 8-semester degree the UNESCO / UIA Charter formulated standards for a global recognition are not met. Federal Chamber of Architects (Bundesarchitektenkammer - BAK), i.e. State Chambers, such as the Bavarian Chamber of Architects (Bayerischen Architektenkammer - BYAK) provide further information about the professional profile of an architect.

3. Study at the Department of Design and at Coburg University of Applied Sciences and Arts

The peculiar Coburg setting where the Department of Design joins under one roof the study programs of Architecture, General Civil Engineering, Interior Design and Interior Architecture as well as Integrated Product Design, enables interdisciplinary teaching and learning while at the same time not giving up the autonomous profiling. Rather, the "look out of the box" which is required in the profession of an architect, is already being promoted in the course of studies and mastered through interdisciplinary work on joint, practice-oriented projects. Therefore, possible networking with other courses of studies is explicitly mentioned in the module descriptions. The Coburg University of Applied Sciences and Arts also promotes in significant extent social and cultural competencies in the sense of a "Studium Generale".

4. Study structure

The specialized contents are summarized in 5 modules:

Module 1

Design considering different focal points and choice possibilities

Module 2

Structure considering aspects of materials, technology and design

Module 3

Building technology and building physics

Module 4

Theory basis, disciplinary and interdisciplinary topics with complementary elective modules

Module 5

Regulations and practice

5. Achievement credits ECTS

Successfully performed courses are awarded with so called achievement credits according to the European Credit Transfer System (ECTS). The modules have either 5 or 10 credits (CP). Following the integration of Elaborate modules (5 CP) and Principal modules (10) CP projects of corresponding intensity and in-depth competence can be awarded within the scope of 15 CP.

30 CP are awarded per semester and 240 CP are achieved after four years of study.

6. Possibility of choice

In order to learn in accordance with own focus area, a selection of compulsory modules is available within the courses offered by the Architecture study program and the Department of Design in Module 4 "Theory basis". In the 6th and 7th semesters, various topics could be selected in modules 1.5 and 1.6 "Architectural Design Project Elective Course", with the possibility of supplementing them with an individual elaboration "Project Add On Elective Course".

7. Practice module

The practice module is integrated in the 5th semester and comprises a total of 20 weeks. The students will be professionally instructed by partners in the planning offices and / or building authorities in all phases of the planning. Furthermore, additional courses will be offered at the Coburg University of Applied Sciences and Arts, which are completed with a practice report. Thus, the study program Architecture meets the requirements for practical training at Universities of Applied Sciences.

8. Mobility in the 6. Semester

In order to promote international exchange and to facilitate the mutual recognition of study achievements, the modules of the 6th semester are predominantly configured as elective modules.

9. Providing general and professional qualifications, skills and knowledge

The studies provide a broad and elaborate knowledge of the basic application-related content as well as the scientific fundamentals of the study program. They enable the experience of the first practical involvement as well as evaluation and critical questioning of the consequences concerning one's own professional activities.

The ability to analyse an existing situation / problem and to communicate the derived planning knowledge in picture, word, plan and model at both a professional and a generally comprehensible level is mediated.

The competences are taught in order to formulate specific profession related questions and to present own architectural position in an argumentative and situation-appropriate manner to the general public and to the experts, as well as to classify professional critique and to deal with objections in a result-oriented manner

Working in a team and developing suitable strategies for self-organization according to the task is practiced in almost all modules.

The students learn the possibilities to evaluate and interpret the peculiarities and constraints of spatial constellation with regard to the best possible architectural solution taking into account the ecological, economic, legal and technical-constructive requirements.

10. Accreditation

The Study and Examination Regulations SPO B AR 2016 were successfully accredited by the accreditation agency Acquin on the date 1.04.2016.



1. Semester

Module 1.1

Design Studio I
Entwurf und Gestaltung I

1	Serial number	M 1.1
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	1. Semester, annually in the winter semester, compulsory module
	Assignment in the Curriculum	Basic Module I
2	Lecturers in the module	Prof. Anja Ohliger, Prof. Helmut Bielenki, other subject-related lecturers
3	Teaching styles	Design project work (4 SWS) with integration Design theory (2 SWS) and presentation techniques (2 SWS); with thematic lectures, exercises and excursions
4	Qualification objectives, competences	Spatial understanding, realizing simple spatial, functional and structural correlations, realizing interdependency between measure and context, understanding design as a process of critical self-reflective thinking and action. Mastering and applying basic knowledge concerning perception and communication processes, professional skills and basic design principles, as well as working on them by means of a model. Demonstrating the knowledge of basic analog presentation techniques, professional skills, and ability of space representation in an appropriate scale.
5	Content	Simple design exercises concerning location, volume, space and program, learning to design in cooperation, coordination and discussion. Accompanying basic exercises in sculptural and spatial design, application of basic form principles as assessment methods of a design quality. Exercises in geometry representation and architectural perspective, restricted and freehand, learning simple modelling techniques.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 1.2 Design Studio II
9	Possible combination with module	M 2.1 Construction and Building Materials I
10	Networking within the department	Study programs Interior Design and Interior Architecture, Integrated product design
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/Exercise time = 120 h; Self-study = 180h
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Design 50%, Elaboration 25%, Presentation 25%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every winter semester

Module 2.1

Construction and Building Materials I
Konstruktion und Material I

1	Serial number	M 2.1
	Credits (ECTS)	10
	Semester hours per week (SWS)	7
	Semester, frequency, type	1. semester, annually in the winter semester, compulsory module
	Assignment in the Curriculum	Basic Module I
2	Lecturers in the module	Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Helmut Bielenki other subject-related lecturers
3	Teaching styles	Student work building construction (4 SWS) with integration Supporting structure (2 SWS) and Building materials (1 SWS); with thematic lectures, exercises and excursions
4	Qualification objectives, competences	Steps to recognize the direct relation between design, construction, structure, material, detail and architectural characteristics. Acquirement of basic principles concerning building construction, supporting structure and material science. Development of a basic understanding regarding the interplay and dependencies between aforementioned and successful implementation factors of the overall architectural concept. Introduction to supporting structures of different materials, realizing the relations between load, forces and the force distribution within load-bearing building elements. Knowledge of the essential building materials in regard to production, composition, appearance, application possibilities and use, disposal, ecological aspects.
5	Content	Standard building construction tasks: steep roof, wall, ceiling, staircase, foundation, windows, doors, flat roof, modular coordination. Basic principles of a supporting structure: corpus and linear supporting structures, beams, tensile and compression members; cables, arch, framework, frames, theory of elasticity, equilibrium conditions of the supporting structures. Material fundamentals: natural stone, binders, clay, mortar, plaster, artificial stone: brick, sand-lime brick, aerated concrete, concrete, steel, nonferrous metals.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 2.2 Construction and Building Materials II
9	Possible combination with module	M 1.1 Design Studio I
10	Networking within the department	Study programs General Civil Engineering, Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 7 SWS x 60 min x 15 Weeks Lectures/Exercise time = 105 h; Self-study = 195h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Building construction 60%, Supporting structure 30%, Materials 10%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every winter semester

Module 3.1

Energy and Building Technology
Gebäudetechnik

1	Serial number Credits (ECTS) Semester hours per week (SWS) Semester, frequency, type Assignment in the Curriculum	M 3.1 5 4 (2 + 2) 1 and 2. semester, annually, compulsory module Basic Module I
2	Lecturers in the module	Prof. Dr. Manfred Casties; other subject-related lecturers
3	Teaching styles	Lectures/seminars, exercises and excursions
4	Qualification objectives, competences	The students are to acquire relevant architectural knowledge of operation regarding technical building installations (electrical, lighting, sanitary, heating) and to be able to select, evaluate and roughly plan the appropriate systems
5	Content	<ul style="list-style-type: none"> • Installations overview • Basic installation principles • Electrical building installations • Lighting technology, daylighting technology • Sanitary technology (water, sewage, plumbing, planning for disabled persons, drinking water, etc.) • Basic heat transfer • Human physiology, comfort, etc. • Heating technology (including determination of the heating load, fuel, power stations, heating systems, heat transfer systems, etc.)
6	References	Current lecture notes (containing references), textbooks, standards, regulations in current edition
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 2.5 Building Technology and Structural Design
9	Possible combination with module	-
10	Networking within the department	-
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/Exercise time = 60 h; Self-study = 190 h.
12	Examination type and form	Student work Note assessment 1 (single)
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	In written form; annually

Module 3.2

Building Physics
Bauphysik

1	Serial number Credits (ECTS) Semester hours per week (SWS) Semester, frequency, type Assignment in the Curriculum	M 3.2 5 4 (2 + 2) 1 and 2. semester, annually, compulsory module Basic Module
2	Lecturers in the module	Prof. Friedemann Zeitler, LBA Dr. rer. nat. Reinhard Wunderlich; other subject-related lecturers
3	Teaching styles	Lectures, exercises and excursions
4	Qualification objectives, competences	Students should acquire the basic knowledge of building physics in order to be able select, evaluate, optimize and roughly calculate composition of building components and construction details
5	Content	<ul style="list-style-type: none"> • Comfort/climate • Temperature/heat • Heat loss prevention using opaque and transparent building components (U-value calculation) • Summer heat protection • Air humidity • Prevention of damage due to moisture (Glazier diagram) • Basic concepts of noise protection and • Room acoustics
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	No prerequisite
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	Study programs Interior Design and Interior Architecture / Energy Efficient Building Design (in the General Civil Engineering Program)
11	Workload	150 h (= 5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/Exercise time = 60 h; Self-study = 90 h.
12	Examination type and form	Student work Note assessment 1 (single)
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every winter semester

Module 4.1

Interdisciplinary Skills I

Interdisziplinäre Aspekte I

1	Serial number	M 4.1
	Credits (ECTS)	5 (2 + 3)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	1.semester, annually in the winter semester, compulsory with 2 courses
	Assignment in the Curriculum	Basic Module I, Introductory course
2	Lecturers in the module	Professors and subject-related lecturers of the Department of Design, ie. Science and Cultural Center (Wissenschafts- und Kulturzentrum - WiKu) Coburg University; Department supervisor, Department coordinator
3	Teaching styles	Interdisciplinary teaching set-up and concept with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Course I Personal development, self-competence: Understanding one's own motivation, thinking patterns and processes; Perceiving oneself as an individual and adopting a different attitude towards one's own thinking and cognition processes as well as physical, psychological and social resources. Interaction competence: Understanding the motivation, thinking patterns and processes of other individuals and disciplines; Thoughtful and observant interaction with other persons and disciplines. Course II Scientific work Getting acquainted with the overall learning realm of Coburg University and the particular institution of the Department of Design. Use of media and their adequate application. Acquaintance with and understanding of criteria and main features of scientific work in the space-forming and designing disciplines. Knowledge of written assignment formal requirements. Knowledge of professional handling of analogue and digital presentation techniques. Acquaintance with and understanding of the elementary methodology in the execution of architectural planning processes
5	Content	Course I, Personal development (2 ECTS, 2 SWS) "Intercultural Experiences", "Socially Responsible Action" and "Personal Development in the Interdisciplinary Context". Course II, Scientific Work (3 ECTS, 2 SWS) Introductory Course; Interdisciplinary: researching, presenting, citing, learning techniques, personal time management; Subject-specific: creative processes, artistic approaches, basic principles of goal-oriented project work (architect as generalist), studio work
6	References	Relevant to the subject
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 4.7 Interdisciplinary Skills II
9	Possible combination with module	-

10	Networking within the department	Department of Design, WiKu
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/Exercise time = 60 h; Self-study = 90 h.
12	Examination type and form	2 documented evidence of study (StN) Note assessment: not applicable
13	Admission requirements	No requirements
14	Registration; repeatability	in written form; every winter semester



2. Semester

Module 1.2

Design Studio II
Entwurf und Gestaltung II

1	Serial number	M 1.2
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	2. semester, annually in summer semester, compulsory module
2	Lecturers in the module	Prof. Anja Ohliger, Prof. Mario Tvrtković, Prof. Helmut Bielenski, other subject-related lecturers
3	Teaching styles	Design project work (4 SWS) with integration Design theory (2 SWS) and presentation techniques (2 SWS); with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Spatial understanding, recognition of complex spatial, functional and constructional relations, recognition of interactions between measure and context, understanding design as a methodical process with reflexive content. Knowledge of complex design principles and their integration into an architectural design process. Knowledge of basic digital presentation techniques, competence, ability to clearly represent design concepts using simple analog and digital techniques.
5	Content	More complex design exercises concerning site, volume, space and program, taking into account situational and relevant social aspects. Learning to design in collaboration, coordination and discussion. Complementary exercises on complex design approaches. Introduction to practical, simple CAD and sketching programs. Advanced modelling techniques
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 1.3 Architectural Design Integration
9	Possible combination with module	M 2.2 Construction and Building Materials II
10	Networking within the department	Study programs Interior Design and Interior Architecture, Integrated product design
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/Exercise time = 120 h; Self-study = 180 h.
12		1 Student work with presentation; Note assessment 2 (twofold); Note percentage Design 50%, Elaboration 25%, Presentation 25%
13	Examination type and form	Participation in seminar lectures and exercises
14	Admission requirements	In written form; every summer semester

Module 2.2

Construction and Building Materials II
Konstruktion und Material II

1	Serial number	M 2.2
	Credits (ECTS)	10
	Semester hours per week (SWS)	7
	Semester, frequency, type	2. semester, annually in summer semester, compulsory module
	Assignment in the Curriculum	Basic Module I
2	Lecturers in the module	Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Helmut Bielenki other subject-related lecturers
3	Teaching styles	Student work building construction (4 SWS) with integration Supporting structure (2 SWS) and Building materials (1 SWS); with thematic lectures, exercises and excursions
4	Qualification objectives, competences	Perceiving the direct relation between design, construction, structure, material, detail, and architectural characteristics. Acquisition of basic principles of building construction, supporting structure and material science. Development of a basic understanding of the interplay and dependencies between aforementioned and successful implementation factors of an overall architectural concept. Understanding relations within architecture and supporting structure, as well as dependencies amongst material and detail. Knowledge of essential building materials in regard to production, composition, appearance, application possibilities and use, disposal, ecological aspects.
5	Content	Materials and structural connections of wood and lightweight structures, wall and slab construction, wood, concrete and composite systems, prefabrication. Suspended supporting systems, combined supports, flat surface structures, overview of structures and their principles. Skeletal structure, reinforcement, plate structures, foundations. Approximate dimensioning basics. Material science basics: glass, insulation materials, wood and wood materials, synthetics, screed, floor coverings, selection of new materials
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 2.3 Construction and Technology I
9	Possible combination with module	M 1.2 Design Studio II
10	Networking within the department	Study programs General Civil Engineering, Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 7 SWS x 60 min x 15 Weeks Lecture/Exercise time = 105 h; Self-study = 195 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Building construction 60%, Supporting structure 30%, Materials 10%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	In written form; every summer semester

Module 4.2

History and Theory of Architecture I
Theoretische Grundlagen der Architektur I

1	Serial number	M 4.2
	Credits (ECTS)	5 (2 + 3)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	2. semester, annually in summer semester, compulsory module with 2 courses
	Assignment in the Curriculum	Basic Module I
2	Lecturers in the module	Prof. Dr. Joachim Driller, History of architecture; Elective course: Professors and subject-related lecturers of the Department of Design. Department supervisor, Department coordinator
3	Teaching styles	Thematic lectures, exercises and excursions; Project work
4	Qualification objectives, competences	The module combines the placement of important theoretical foundations (Architectural history I - providing an overview concerning the history of architecture and urban development; placement of specialized terminology of architectural history, practicing methods of "descriptive seeing") with individual choice regarding the profile focus. The students acquire additional expertise and orientate themselves at the same time for possible profiling in the second segment of the study.
5	Content	<p>Course I History of architecture I (2 ECTS, 2 SWS)</p> <p>Overview concerning the architectural epochs and urban development from the ancient cultures to the end of the Middle Ages on the basis of selected examples. Interdisciplinary approach that combines object analysis with the discussion of phenomenological and cultural-historical problems as well as establishing references to the visual arts.</p> <p>Course II Elective course I (3 ECTS, 2 SWS)</p> <p>The elective courses offered by the Department of Design allow a freely selected disciplinary education and specialization as well as participation in organizational and curatorial projects of the study programs and the department (for example, Campus Design Open).</p>
6	References	Relevant to the subject
7	Participation prerequisite	Qualifying exam before the beginning of the study
8	Follow-up module	M 4.3 History and Theory of Architecture II
9	Possible combination with module	-
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture time = 60 h; Self-study = 90 h.
12	Examination type and form	2 evidence of study (StN)
13	Admission requirements	-
14	Registration; repeatability	Elective course in written form; every summer semester
15	Other specifics	The elective modules can be set as interdisciplinary and thus open to all students of the Department of Design.

Course I, History of Architecture is compulsory for all students.
Concerning the course II, students are free to decide in which semester to choose a particular subject, with the exception of restrictions regarding the prior knowledge on the semester status.

Relevant details are given in the particular descriptions of the elective subjects.

Each elective subject identical in content can be assigned only once.
The appointment of the offers is carried out according to the study and examination committee at the beginning of each semester.



3. Semester

Module 1.3

Architectural Design Integration
Entwurf und Gebäudelehre

1	Serial number	M 1.3
	Credits (ECTS)	10
	Semester hours per week (SWS)	6
	Semester, frequency, type	semester, annually in winter semester, compulsory course
	Assignment in the Curriculum	Basic Module II
2	Lecturers in the module	Prof. Anja Ohliger, Prof. Mario Tvrtković other subject-related lecturers
3	Teaching styles	Design project work with thematic lectures, exercises and excursions
4	Qualification objectives, competences	The students can integrate and transform the basic design and constructive principles from the first year of study into the design work. They are able to contribute methodologically to the essential aspects of architectural design. They gain insights into the various building types. They comprehend their development over time and are able to identify, critically compare and evaluate different typologies and their specifics.
5	Content	Development of a design of medium complexity. The focus is placed on the aspects of location, space program and building design. Arranging different types of buildings taking into account technical developments and influences on society, as well as socio-cultural and political influences.
6	References	Relevant to the subject; Lecture notes; course reserve collection in the library
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 1.4 Architectural Design Project
9	Possible combination with module	M 2.3 Construction and Technology I
10	Networking within the department	Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 6 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 90 h; Self-study = 210 h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 2 (twofold);
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every winter semester

Module 1.3.1

Urban Planning

Städtebau

1	Serial number	M 1.3.1
	Credits (ECTS)	5
	Semester hours per week (SWS)	3
	Semester, frequency, type	3. semester, annually in winter semester, compulsory module
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Mario Tvrtković other subject-related lecturers
3	Teaching styles	Thematic lectures, exercises and excursions
4	Qualification objectives, competences	The students can understand urban plans and within identify as well as specify architectural and open space typologies. They are able to perceive different urban structures, to realize their key features and to comprehend, classify and present the design-relevant aspects concerning structure, development, use, open space and mobility. They are also capable of describing the atmosphere, spirit and socio-spatial specifics of the examined spaces. They acquire the competence to combine the findings of the analysis, the requirements of the planning task and their design intentions to further develop them into a spatial idea.
5	Content	Thematic introduction and fundamentals concerning different urban typologies and planning theory approaches in the context of their historical, socio-cultural, political and society influences as well as technical developments. Description, identification and presentation of urban spatial structures and their qualities and deficits. Independent assessment of spatial and functional relations in the city.
6	References	Relevant to the subject; Lecture notes; Course reserve collection in the library
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 1.4 Architectural Design Project
9	Possible combination with module	M 1.3 Architectural Design Integration
10	Networking within the department	-
11	Workload	150 h (=5 ECTS x 30 h); Presence time 3 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 45 h; Self-study = 105 h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 1 (single);
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every summer semester

Module 2.3

Construction and Technology I
Konstruktion und Technik I

1	Serial number	M 2.3
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	3. semester, annually in winter semester, compulsory module
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Friedemann Zeitler other subject-related lecturers
3	Teaching styles	Student work Building construction (2 SWS) with integration Supporting structure (2 SWS) and Basic energy principles in buildings (2 SWS); with thematic lectures, exercises and excursions
4	Qualification objectives, competences	Understanding relations between design, construction, structure, sustainability and architectural quality. Constructive competence concerning implementation of design concepts. Knowledge of the most important building and construction methods in wood and wood materials and their application in load-bearing and space-forming structures in architecture. Fundamentals on more complex building and supporting structures of multi-storey buildings and halls. The students should learn about the architectural fields of energy efficient and sustainable construction. Ability to use competence in an integrated interdisciplinary exercise.
5	Content	Principles of building wall and slab constructions made of wood materials, highly insulated wooden constructions, dry construction, construction basics of barrier-free building, metal and facade construction, glazing and sun protection. Basic principles of wood, concrete and exposed concrete construction within supporting structures, prefabrication, pre-calculation of the building elements under basic tensile, compressive and bending stresses, principles of wooden skeletal and framework construction, building with flat and curve shaped elements of wood. Energy balancing of buildings Legal basics and requirements Energy-optimizing building concepts Energetische Bilanzierung von Gebäuden Gesetzliche Grundlagen und Anforderungen Energieoptimierte Gebäudekonzepte
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 2.1 and M2.2 Construction and Building Materials
8	Follow-up module	M 2.4 Construction and Technology II
9	Possible combination with module	M 1.3 Architectural Design Integration
10	Networking within the department	-
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 120 h; Self-study = 180 h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Building construction 50%, Supporting structure 25%, Energy basics 25%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	Not required; every winter semester

Module 4.3

History and Theory of Architecture II
Theoretische Grundlagen der Architektur II

1	Serial number	M 4.3
	Credits (ECTS)	5 (2 + 3)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	3. semester, annually in winter semester, compulsory module with 2 courses
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Dr. Joachim Driller, History of architecture; Elective course: Professors and subject-related lecturers of the Department of Design. Department supervisor, Department coordinator
3	Teaching styles	Thematic lectures, exercises and excursions; Project work
4	Qualification competences	objectives, The module combines the placement of important theoretical foundations (Architectural history II - providing an overview concerning the history of architecture and urban development; placement of specialized terminology of architectural history, practicing methods of "descriptive seeing") with individual choice regarding the profile focus. The students acquire additional expertise and orientate themselves at the same time for possible profiling in the second segment of the study
5	Content	<p>Course I History of architecture II (2 ECTS, 2 SWS)</p> <p>Overview of the architectural epochs and urban development from the renaissance until the end of the 19th century on the basis of selected examples. Interdisciplinary approach that combines object analysis with the discussion of phenomenological and cultural-historical problems as well as establishing references to the visual arts.</p> <p>Course II Elective course II (3 ECTS, 2 SWS)</p> <p>The elective courses offered by the Department of Design allow a freely selected disciplinary education and specialization as well as participation in organizational and curatorial projects of the study programs and the department (for example Campus Design Open).</p>
6	References	Relevant to the subject
7	Participation prerequisite	M 4.2 History and Theory of Architecture I
8	Follow-up module	M 4.4 History and Theory of Architecture III
9	Possible combination with module	-
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture time = 60 h; Self-study = 90 h.
12	Examination type and form	2 evidence of study
13	Admission requirements	-
14	Registration; repeatability	Elective course in written form; every winter semester
15	Other specifics	The elective modules can be set as interdisciplinary and thus open to

all students of the Department of Design.

Course I, History of Architecture is compulsory for all students.
Concerning the course II, students are free to decide in which semester to choose a particular subject, with the exception of restrictions regarding the prior knowledge on the semester status.

Precise relevant details are given in the particular descriptions of the elective subjects.

Each elective subject identical in content can be assigned only once.
The appointment of the offers is carried out according to the study and examination commission at the beginning of each semester



4. Semester

Module 1.4

Architectural Design Project
Integrales Entwurfsprojekt

1	Serial number	M 1.4
	Credits (ECTS)	10
	Semester hours per week (SWS)	7
	Semester, frequency, type	4. semester, annually in summer semester, compulsory module
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Anja Ohliger, Prof. Markus Schlempp, Prof. Mario Tvrtković other subject-related lecturers
3	Teaching styles	Design project work with thematic lectures, exercises and excursions
4	Qualification objectives, competences	<p>The students are able to derive the planning and design-relevant aspects regarding the requirements of the building and the urban environment. They can formulate their own attitude to the given task and integrate it into the design.</p> <p>Students gain insights into the more complex building typologies of and the urban development doctrine. They comprehend their development over time and are able to identify, critically compare and evaluate the relationships between different spatial typologies and urban morphology</p>
5	Content	<p>On the basis of a design task, students develop an original integral design which meets the requirements of the building and urban structures and present them in a plan, model, image and word. The aspects of context / site, program, typology and construction are at the focus of consideration.</p> <p>Placement of the more complex building types taking into account technical developments and social, socio-cultural and political influences. Placement of the architectural and urban design terminology and the essential plot, open space and urban typologies as well as the understanding of the urban morphology.</p>
6	References	Relevant to the subject; Lecture notes; Course reserve collection in the library
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 1.5 Architectural Design Project, Elective course
9	Possible combination with module	M 2.4 Construction and Technology II
10	Networking within the department	Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 7 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 105 h; Self-study = 195 h.
12	Examination type and form	Examination student work with presentation (15-20 20 min); Note assessment 2 (twofold);
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	In written form; every summer semester

Module 1.4.1

 Impromptu Design, Elective Course I
Wahlpflichtmodul Stegreif I

1	Serial number	M 1.4.1
	Credits (ECTS)	5
	Semester hours per week (SWS)	1
	Semester, frequency, type	every semester, completed in 4. semester, elective module
	Assignment in the Curriculum	Basic module I - II
2	Lecturers in the module	Prof. Bielenski, Prof. Anja Ohliger, Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Mario Tvrtković, Prof. Markus Schlempp, Prof. Friedemann Zeitler, Lecturers of the Department of Design; other subject-related lecturer Department supervisor, Department coordinator
3	Teaching styles	Variety of short-time designs with presentation
4	Qualification objectives, competences	Conceptual thinking and sharpening the basic skills in design, figuration and construction.
5	Content	The Impromptu Design aims to think through a short time a small conceptual assignment without having to deal with all major thematic correlations. Impromptu Design contains topics from the fields of design, figuration and construction and can be complementary with the current topics in the semester.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 6.2 Impromptu Design, Elective Course II
9	Possible combination with module	-
10	Networking within the department	Study programs Interior Design and Interior Architecture and Integrated product Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 1 SWS x 60 min x 15 Weeks Lecture/ Presentation time = 15 h; Self-study = 135 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Final note as the average of the single notes with the significance of the particular ECTS. Note assessment 1 (single);
13	Admission requirements	No requirements
14	Registration; repeatability	In written form; every winter and summer semester
15	Other specifics	Impromptu Design is unsupervised, autonomous work, the choice of subjects is voluntary. Impromptu Designs are rated with 1, 2 or 3 ECTS depending on the task. By the end of the 4th semester, a total of 3 tasks in regard to the fields of design, figuration and construction have to be demonstrated with at least one Impromptu Design concerning these areas

Module 2.4

Construction and Technology II
Konstruktion und Technik II

1	Serial number	M 2.4
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	4. semester, annually in summer semester, compulsory module
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Markus Schlempp other subject-related lecturers
3	Teaching styles	Student work Building construction (4 SWS) with integration Supporting structure (2 SWS) and Basic principles of dealing with existing buildings (2 SWS); with thematic lectures, exercises and excursions
4	Qualification objectives, competences	Understanding of relations between design, construction, structure, building energy concept and architectural quality. Constructive implementation competence of design concepts. Knowledge of construction and supporting structure concerning of steel and light structures, competence to constructively design a building of medium complexity. Insight and overview of load-bearing steel structures and the fundamentals of more complex supporting structures of multi-storey and hall structures. Students should learn about the basics and aspects of building with respect to existing buildings. Application in an integrated interdisciplinary exercise.
5	Content	Construction principles of steel structures, wide-span structures, detailing of steel buildings. Pre-measuring the essential tensile, compressive and flexural stressed elements, interaction of the load- bearing structure and space closure. Truss, Frameworks, support grid, Truss beam systems, skeleton structures, basic steel composite structures. On the basis of design tasks concerning reconstruction, refurbishment, additional extension, conversion of existing buildings and the energy refurbishment of existing buildings, a thoughtful, appropriate and respectful approach is to be learned in the context of existing building structure and building culture.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 2.3 Construction and Technology I
8	Follow-up module	M 2.5 Building Technology and Structural Design I (study section II)
9	Possible combination with module	M 1.4 Architectural Design Project
10	Networking within the department	Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 120 h; Self-study = 180 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Building construction 50%, Supporting structure 25%, Building with regard to existing Buildings 25%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	In written form; every summer semester

Module 4.4

History and Theory of Architecture III
Theoretische Grundlagen der Architektur III

1	Serial number	M 4.4
	Credits (ECTS)	5 (2 + 3)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	4.semester, annually in summer semester, compulsory and elective module
	Assignment in the Curriculum	Basic module II
2	Lecturers in the module	Prof. Dr. Joachim Driller, History of architecture; Elective course: Professors and subject-related lecturers of the Department of Design Department supervisor, Department coordinator
3	Teaching styles	Thematic lectures, exercises and excursions; Project work
4	Qualification competences	objectives, The module combines the placement of important theoretical foundations (Architectural history III - providing an overview concerning the history of architecture and urban development; placement of specialized terminology of architectural history, practicing methods of "descriptive seeing"). To sharpen the view for solutions, relations and divergent positions and interpretations to promote the ability to develop own (creative) standpoint. Own, individual profile focuses are to be selected. The students acquire additional expertise and orientate themselves at the same time for possible profiling in the second segment of the study.
5	Content	Course I History of architecture III (2 ECTS, 2 SWS) Überblick über die Epochen der Architektur- und Stadtbaugeschichte und Architektur- und Stadtbautheorie von der frühen Moderne bis zum Dekonstruktivismus anhand ausgewählter Beispiele. Interdisziplinärer Ansatz, der die Objekt- und Entwurfsanalyse mit der Diskussion phänomenologischer und kulturhistorischer Fragestellungen sowie der Herstellung von Bezügen zu bildender Kunst und Design verbindet. Course II Elective course III (3 ECTS, 2 SWS) The elective courses offered by the Department of Design allow a freely selected disciplinary education and specialization as well as participation in organizational and curatorial projects of the study programs and the department (for example Campus Design Open).
6	References	Relevant to the subject
7	Participation prerequisite	M 4.3 History and Theory of Architecture II
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/Excercise time = 60 h; Self-study = 90 h.
12	Examination type and form	2 evidence of study (StN)
13	Admission requirements	-

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|----|-----------------------------|--|
| 14 | Registration; repeatability | Elective course in written form; every summer semester |
| 15 | Other specifics | <p>The elective modules can be set as interdisciplinary and thus open to all students of the Department of Design.</p> <p>Course I, History of Architecture is compulsory for all students. Concerning the course II, students are free to decide in which semester to choose a particular subject, with the exception of restrictions regarding the prior knowledge on the semester status.</p> <p>Relevant details are given in the particular descriptions of the elective subjects.</p> <p>Each elective subject identical in content can be assigned only once. The appointment of the offers is carried out according to the study and examination committee at the beginning of each semester</p> |
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5. Semester

practical study semester

Module 5 **Praxis Module**
Praxismodul

1	Serial number Credits (ECTS) Semester hours per week (SWS) Semester, frequency, type Assignment in the Curriculum	M 5 25 2 5. semester, annually in winter semester, compulsory module Praxis and knowledge deepening I
2	Lecturers in the module	Prof. Roger Karbe, Prof. Dietmar Kirsch
3	Teaching styles	Thematic planning work, complementary praxis seminar at the end of the 5th semester
4	Qualification objectives, competences	Identifying and understanding the relations and mutual interaction of design, functional, constructive, technical, economic and ecological aspects in concrete planning processes. Ability to conduct goal-oriented work in a team.
5	Content	Participation in the professional activities of an architect in an architectural office, a planning office or a building authority. Learning and practicing the work processes during planning and building according to The performance pictures of the HOAI (fees charged by architects and engineers). Learning about office, project and investment organization as well as site management. Providing a practice report.
6	References	Relevant to the subject
7	Participation prerequisite	Basic praxis course acc. SPO B AR § 8
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	-
11	Workload	At least 20 weeks within a period associated with § 2 RaPO (Rahmenprüfungsordnung für die Fachhochschulen); 750 h (=25 ECTS x 30 h); Presence time min. 700 h. Practice report preparation 20 h, Presence time Praxis seminar 30 h.
12	Examination type and form	Evidence of study (StN), Note assessment: not applicable; Practice report: written work 15 - 20 pages and as presentation an excerpt of 15-20 min.
13	Admission requirements	Acc. to SPO B AR § 9, Internship contract, Internship certificate with Learning agreement
14	Registration; repeatability	In written form by persons in charge concerning the module; every winter semester
15	Other specifics	If the practical study semester is completed outside the Federal Republic of Germany, the Examination Board may arrange specific regulations

Module 5.1

 Organization and Architectural Law I
Organisation und Recht I

1	Serial number	M 5.1
	Credits (ECTS)	5
	Semester hours per week (SWS)	2
	Semester, frequency, type	5. semester, annually in winter semester, compulsory module
	Assignment in the Curriculum	Praxis and knowledge deepening I
2	Lecturers in the module	RA Dr. Hans-Heinrich Eidt; other subject-related lecturers
3	Teaching styles	Thematic lectures and exercises; and / or also externally by forms of distance or e-learning (VHB)
4	Qualification objectives, competences	Presenting the essential principles of the architectural contract and fee law, in particular the effect of oral or incorrect conclusion of an agreement as warranty and compensation; Strategies for the avoidance of responsibility and of securing the fees
5	Content	Architectural, work contract and fee law
6	References	Relevant to the subject
7	Participation prerequisite	-
8	Follow-up module	M 5.2 Organization and Architectural Law II
9	Possible combination with module	-
10	Networking within the department	-
11	Workload	150 h (=5 ECTS x 30 h); Presence time 2 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 30 h; Self-study = 120 h.
12	Examination type and form	Written examination 90 Min., Note assessment 1 (single);
13	Admission requirements	-
14	Registration; repeatability	In written form, every winter semester



6. Semester

Module 1.5

Architectural Design Project I, Elective Course
Wahlpflichtmodul Entwurfsprojekt I

1	Serial number	M 1.5
	Credits (ECTS)	10
	Semester hours per week (SWS)	6
	Semester, frequency, type	6. semester, annually in summer semester, elective module
	Assignment in the Curriculum	Elaborate module I
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Rainer Hirth, Prof. Roger Karbe, Prof. Markus Schlempp, Prof. Mario Tvrtković; lecturers of the Department of Design; other subject-related lecturers
3	Teaching styles	Design project work with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Ability to structure the design process, to recognize and analyze the connections in a manageable subject area, to formulate a need for action and to develop an independent architectural solution. The students possess the necessary knowledge concerning urban design, construction, structure and building technology, in proportion and typology, and are able to integrate these into the design considering aspects of sustainability. They can display the concepts and the design in plan and model as well as present it in discourse. Insights into the topics of neighbouring disciplines strengthen the interdisciplinary and integrative understanding of the team work processes.
5	Content	On the basis of the methodical application of analysis and concept development, the module provides an independent and systematic elaboration of a design. Taking into account the knowledge acquired in the previous semesters concerning typologies, spatial concepts and discourses about history and location, the urban, architectural, constructive and atmospheric aspects of a project are comprehensively researched and elaborated. Different imaging techniques from the conceptual sketches to the digitally generated or analog model are examined, tested and applied.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 1.6 Architectural Design Project II, Elective Course
9	Possible combination with module	M 1.5.1 Project Add On I, Elective Course
10	Networking within the department	Study programs of the Department of Design
11	Workload	00 h (=10 ECTS x 30 h); Presence time 6 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 90 h; Self-study = 210 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold);
13	Admission requirements	-
14	Registration; repeatability	In written form; every summer semester
15	Other specifics	As a design topic, a project from the range of urban planning and building design are to be chosen.

In the course of the modules 1.5 to 1.6, only an urban planning design can be allowed.

At least one project of modules 1.5 or 1.6 must be taken as an interdisciplinary project from the Department of Design.

The study and examination board may according to requirements decide on the admission of other interdisciplinary projects.

Module 1.5.1

Project Add On I, Elective Course
Wahlpflichtmodul Projektergänzung I

1	Serial number	M 1.5.1
	Credits (ECTS)	5
	Semester hours per week (SWS)	2
	Semester, frequency, type	6. semester, annually in summer semester, elective course
	Assignment in the Curriculum	Elaborate module I
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Rainer Hirth, Prof. Roger Karbe, Prof. Markus Schlempp, Prof. Mario Tvrtković; lecturers of the Department of Design; other subject-related lecturers
3	Teaching styles	Thematic lectures, exercises and excursions
4	Qualification objectives, competences	The students complement their competences in important areas of the subject. They acquire additional competence and have the possibility to orient themselves for possible specializations in the later Master's program and the professional activity. They gain insights into the subject areas of adjoining disciplines and thus strengthen the interdisciplinary and integrative understanding of the work processes in the team
5	Content	The elective design (module 1.5) is related to the accompanying course (module 1.5.1). The students deepen a specific aspect of the subject parallel to the design work, e.g. through further exercises or a content-related seminar from the course offer of the study program and the Department of Design.
6	References	Relevant to the subject
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 1.6.1 Project Add On II, Elective Course
9	Possible combination with module	M 1.5 Architectural Design Project I, Elective Course
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 2 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 30 h; Self-study = 120 h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 1 (single);
13	Admission requirements	-
14	Registration; repeatability	In written form; every summer semester

Module 2.5

Building Technology and Structural Design I
Konstruktion und Entwurf I

1	Serial number	M 2.5
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	6. semester, annually in summer semester, compulsory module
	Assignment in the Curriculum	Elaborate module I
2	Lecturers in the module	Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Dr. Manfred Casties, other subject-related lecturers
3	Teaching styles	Student work Building construction (4 SWS) with integration Supporting structure (2 SWS) and Building technology (2 SWS); with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Structuring, representing and communicating complex requirements in building design. Obtaining and transferring basic knowledge of particular disciplines (building construction and design, supporting structures, building technology) in the overall context. The recognition of dependencies between design, construction, technology and economy. Further development of a design up to completion. Creation of practice-oriented detail and work plans. Association of design and layout competencies with the construction competence
5	Content	Design of medium to large, modular structures. Elaboration of a constructional / planning solution and practice-oriented simulation of a planning process with integration of requirements of professional participants. Further development of a design up to completion. Creation of practice-oriented detail and work plans. Methodical design of supporting structures in alternatives and variants and formal shaping of designs by construction. This is done by means of selected projects. Building technology contents are ventilation and air conditioning, renewable energy systems, e.g. Solar technology, elevator and conveyor technology, telecommunications, waste disposal, energy concepts.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 3.1 Energy and Building Technology (study phase I) M 2.4 Construction and Technology (study phase I)
8	Follow-up module	M 2.6 Building Technology and Structural Design I (study phase I)
9	Possible combination with module	M 1.5 Architectural Design Project I, Elective Course
10	Networking within the department	Study programs General Civil Engineering and Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 120 h; Self-study = 180 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold); Note percentage Building construction 50%, Supporting structure 25%, Building technology 25%
13	Admission requirements	Participation in seminar lectures and exercises
14	Registration; repeatability	In written form; every summer semester

Modul 4.5

Disciplinary Skills I

Wahlpflichtmodul Disziplinäre Aspekte I

1	Serial number	M 4.5
	Credits (ECTS)	5 (3 + 2)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	6. semester, annually in summer semester, elective course
	Assignment in the Curriculum	Elaborate module I
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Dr. Rainer Hirth, Prof. Markus Schlempp, Prof. Mario Tvrtković; lecturers of the Department of Design; other subject-related lecturers. Department supervisor, Department coordinator
3	Teaching styles	Thematic lectures, seminars, exercises, workshops, summer schools and excursions
4	Qualification competences	objectives, The students elaborate the professional competencies according to their professional interests. They strengthen their professional autonomy and acquire soft skills, especially their social competence, teamwork and teaching study (tutorials).
5	Content	Course I Elective course of the study program AR (2 SWS, 3 CP) Course II Elective course from external activities or according to the offer of the Department of Design (2 SWS, 2 CP) The module allows students to set individual focus points within the course of their studies and to acquire more elaborate knowledge. In addition to the elective courses and projects of the Department of Design, it is also possible to participate in research-oriented projects of the department, preparation of study tours and participation in related courses offered by other universities and universities of applied sciences and arts from Germany and abroad
6	References	Relevant to the subject
7	Participation prerequisite	No prerequisite
8	Follow-up module	M 4.6 Disciplinary Skills II
9	Possible combination with module	-
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 60 h; Self-study = 90 h.
12	Examination type and form	2 or 1 evidence of study
13	Admission requirements	-
14	Registration; repeatability	In written form; every winter semester
15	Other specifics	Usually, the module consists of 2 courses, which can be taken separately, or according to the study and examination commission, with a more extensive course (5 ECTS, 4 SWS). This is intended to contribute to the mobility of students (mobility windows).



7. Semester

Module 1.6

Architectural Design Project II, Elective Course
Wahlpflichtmodul Entwurfsprojekt II

1	Serial number	M 1.6
	Credits (ECTS)	10
	Semester hours per week (SWS)	6
	Semester, frequency, type	7. semester, annually in winter semester, elective course
	Assignment in the Curriculum	Elaborate module II
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Rainer Hirth, Prof. Roger Karbe, Prof. Markus Schlempp, Prof. Mario Tvrtković; lecturers of the Department of Design; other subject-related lecturers
3	Teaching styles	Design project work thematic lectures, exercises and excursions
4	Qualification objectives, competences	The students have an elaborate knowledge of design processes and are able to apply the knowledge autonomously and in practice. They can work on design tasks of different focuses and are able to integrate them into the social and spatial context. The students have advanced knowledge of urban planning, construction, structural systems and building technology, in proportion and typology, and are able to integrate these into the design following aspects of sustainability. They improve the presentation techniques, develop their own language of architectural communication. They are able to present their project in drawings, images and models and their own attitude in discourse to express. They acquire insights into the subject areas of close disciplines and thus strengthen the interdisciplinary and integrative understanding of the work processes in a team.
5	Content	Autonomous and systematic elaboration of a complex design, incorporating the content and knowledge of previous semesters on typology, spatial concepts, location and context. Elaborating the design methods and implementing the knowledge for the design of a building or an urban plan ensemble up to exemplary footprint. Different visualization techniques, from conceptual drawings to the digitally generated or analog models are researched, tested and applied.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 1.5 Architectural Design Project I, Elective Course
8	Follow-up module	-
9	Possible combination with module	M 1.6.1 Project Add On II, Elective Course
10	Networking within the department	Department of Design
11	Workload	300 h (=10 ECTS x 30 h); Presence time 6 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 90 h; Self-study = 210 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold)
13	Admission requirements	-
14	Registration; repeatability	In written form; every winter semester

15 Other specifics

As a design topic, a project from the range of urban planning and building design are to be chosen.
In the course of the modules 1.5 to 1.6, only an urban planning design may be allowed.

At least one project of modules 1.5 or 1.6 must be taken as an interdisciplinary project at the Department of Design.
The study and examination board may decide according to requirements about the admission of other interdisciplinary projects.

Module 1.6.1

Wahlpflichtmodul Projekterganzung II

Project Add On II, Elective Course

1	Serial number	M 1.6.1
	Credits (ECTS)	5
	Semester hours per week (SWS)	2
	Semester, frequency, type	7. semester, annually in winter semester, elective module
	Assignment in the Curriculum	Elaborate module II
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Rainer Hirth, Prof. Roger Karbe, Prof. Markus Schlempp, Prof. Mario Tvrtkovic; Lecturers of the Department of Design; other subject-related lecturers
3	Teaching styles	Design project work thematic lectures, exercises and excursions
4	Qualification objectives, competences	The students complement their competences in important areas of the subject. They acquire additional competence and have the possibility to orient themselves for possible specializations in the later Master's program and the professional activity. They gain insights into the subject areas of adjoining disciplines and thus strengthen the interdisciplinary and integrative understanding of the work processes in the team..
5	Content	The elective design (module 1.5) is related to the accompanying course (module 1.5.1). The students deepen a specific aspect of the subject parallel to the design work, e.g. through further exercises or a content-related seminar from the course offer of the study program and the Department of Design
6	References	Relevant to the subject
7	Participation prerequisite	No prerequisite
8	Follow-up module	-
9	Possible combination with module	M 1.6 Architectural Design Project II, Elective Course
10	Networking within the department	Department of Design
11	Workload	50 h (=5 ECTS x 30 h); Presence time 2 SWS x 60 min x 15 Weeks Lecture time = 30 h; Self-study = 120 h.
12	Examination type and form	Student work with presentation (15-20 min); Note assessment 1 (single)
13	Admission requirements	-
14	Registration; repeatability	In written form; every winter semester

Module 2.6

Building Technology and Structural Design II
Konstruktion und Entwurf II

1	Serial number	M 2.6
	Credits (ECTS)	10
	Semester hours per week (SWS)	8
	Semester, frequency, type	7. semester, annually in winter semester, compulsory module
	Assignment in the Curriculum	Elaborate module II
2	Lecturers in the module	Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Markus Schlempp, other subject-related lecturers
3	Teaching styles	Student work Building construction and design (4 SWS) with integration Supporting structure (2 SWS) and Building with existing building fond (1 SWS) Energy-efficient building design (1 SWS); with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Structuring, representing and communicating complex requirements in building design. Transferring basic knowledge of particular disciplines in the overall context. The recognition of dependencies between design, construction, technology and economy. Association of design and layout competencies with the construction competence. Design of wider span structures, arranging relations between function, architectural form and structural design as part of a holistic approach. Application of the previously acquired knowledge concerning the fields of building physics, energy balancing and building certification. Obtaining practice confidence
5	Content	Creation of a reconstruction strategy for reuse of existing structures with essential constructive detail solutions. Elaboration of a construction / planning solution and practice-oriented simulation of a planning process with integration of requirements of professional participants. Exploring the program and construction in the interaction with the architectural form. The interaction of space closure, installation and construction, including interdisciplinary aspects. The series of lectures on heritage conservation deals with questions of the theory and practice of the heritage conservation, the analysis of existing conditions, the heritage protection regulations and the new construction in a historical context apart. Development of an energy optimized design concept corresponding to the sustainability criteria, development of building component structures optimized in regard to building physics and energy consumption.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 2.5 Building Technology and Structural Design I
8	Follow-up module	-
9	Possible combination with module	M 1.6 Architectural Design Project II, Elective Course
10	Networking within the department	Study programs General Civil Engineering and Interior Design and Interior Architecture
11	Workload	300 h (=10 ECTS x 30 h); Presence time 8 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 120 h; Self-study = 180 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Note assessment 2 (twofold);

Note percentage Building construction 50%, Supporting structure 25%,
Heritage conservation 12,5%, Energy efficient building design 12,5%

13 Admission requirements

Participation in seminar lectures and exercises

14 Registration; repeatability

In written form; every winter semester

Module 4.6

Wahlpflichtmodul Disziplinäre Aspekte II
Disciplinary Skills II

1	Serial number	M 4.6
	Credits (ECTS)	5 (3 + 2)
	Semester hours per week (SWS)	4 (2 + 2)
	Semester, frequency, type	7. semester, annually in winter semester, elective course
	Assignment in the Curriculum	Elaborate module II
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Anja Ohliger, Prof. Markus Schlempp, Prof. Mario Tvrković; lecturers of the Department of Design; other subject-related lecturers. Department supervisor, Department coordinator
3	Teaching styles	Thematic lectures, seminars, exercises, workshops, summer schools and excursions
4	Qualification competences	objectives, The students elaborate the professional competencies according to their professional interests. They strengthen their professional autonomy and acquire soft skills, especially their social competence, teamwork and teaching study (tutorials).
5	Content	<p>Course I Elective course of the study program AR (2 SWS, 3 CP)</p> <p>Course II Elective course from external activities or according to the offer of the Department of Design (2 SWS, 2 CP)</p> <p>The module allows students to set individual focus points within the course of their studies and to acquire more elaborate knowledge. In addition to the elective courses and projects of the Department of Design, it is also possible to participate in research-oriented projects of the department, preparation of study tours and participation in related courses offered by other universities and universities of applied sciences and arts from Germany and abroad.</p>
6	References	Relevant to the subject
7	Participation prerequisite	-
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	Department of Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 60 h; Self-study = 90 h.
12	Examination type and form	2 or 1 evidence of study
13	Admission requirements	-
14	Registration; repeatability	In written form; every summer semester
15	Other specifics	The module usually consists of 2 courses, which can be taken separately, or according to the study and examination commission, with a more extensive course (5 ECTS, 4 SWS).



8. Semester

closure semester

Module 6 Bachelorthesis – Structural Architecture Design

Bachelorarbeit

1	Serial number	M 6
	Credits (ECTS)	12
	Semester hours per week (SWS)	-
	Semester, frequency, type	8. semester, annually in summer semester, compulsory module
	Assignment in the Curriculum	Elaborate module II
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Dr. Rainer Hirth, Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Markus Schlempp, Prof. Mario Tvrtković; other subject-related lecturers
3	Teaching styles	-
4	Qualification objectives, competences	Development of an autonomous approach to the chosen task. Providing evidence that they are able to apply all theoretical, formal, design, urban planning, construction, technical and organizational skills acquired during their studies adequately and in a timely manner to solve of a specific, complex design task. They are able to execute their work convincingly and on the basis of the plans and models to present it to the wider public and discuss it discursively.
5	Content	The competences and skills acquired during the course of studies are demonstrated in an autonomous design work. The Bachelor thesis demonstrates the qualification of the students for their work as an architect and opens up the possibility for students to pursue a master's degree in architecture. The final exam is conceived as a public colloquium with the participation of all involved parties and guests
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	Completed modules M 1.5 and 1.6 Design project with M 1.5.1 and 1.6.1 Project Add On and M 2.5 and 2.6 Building Technology and Structural Design
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	-
11	Workload	360 h (=12 ECTS x 30 h); Preparation and presentation 20 h, self-study = 360 h
12	Examination type and form	Presentation (20-45 min); Note assessment 3 (threefold)
14	Registration; repeatability	In written form; every summer semester

Module 6.1

Bachelor Seminar
Bachelor Seminar

1	Serial number	M 6.1
	Credits (ECTS)	3
	Semester hours per week (SWS)	2
	Semester, frequency, type	8. semester, every summer semester, compulsory module
	Assignment in the Curriculum	Final exam
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Dr. Rainer Hirth, Prof. Roger Karbe, Prof. Dietmar Kirsch, Prof. Markus Schlempp, Prof. Mario Tvrtković; other subject-related lecturers
3	Teaching styles	Seminar
4	Qualification competences	objectives, Integrated interconnection of knowledge from the study curriculum: theory basics, design, representation and formal realization, urban planning, construction and material, building technology, building physics, organization and law, sustainable and energy-saving design. Intensification of the methodical and analytical skills of the students. Strengthening the professional self-determination of the students by the selection of topics - strengthening the discussion and communication competence.
5	Content	The Bachelor seminar complements the content und theme of the Bachelor thesis. The subject of the seminar can be selected from the entire expertise canon of the studies and serves as preparation for the autonomous Bachelor thesis. Students have the opportunity to set individual focus within the Bachelor's thesis and acquire additional qualifications.
6	References	Relevant to the subject; Course reserve collection in the library; Lecture notes
7	Participation prerequisite	Completed modules M 1.5 and 1.6 Design project with M 1.5.1 and 1.6.1 Project Add On and M 2.5 and 2.6 Building Technology and Structural Design
8	Follow-up module	-
9	Possible combination with module	M 6 Bachelorthesis
10	Networking within the department	Department of Design
11	Workload	90h (=3 ECTS x 30 h); Presence time 3 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 45 h; Self-study = 45 h.
12	Examination type and form	Seminar report (written 15 - 20 pages) with presentation (15-20 min); Note assessment 1 (single)
13	Admission requirements	No requirements
14	Registration; repeatability	In written form; every summer semester

Module 6.2

Impromptu Design, Elective Course II
Wahlpflichtmodul Stegreif II

1	Serial number	M 6.2
	Credits (ECTS)	5
	Semester hours per week (SWS)	1
	Semester, frequency, type	every semester, completed in 8. semester, elective
	Assignment in the Curriculum	Elaborate module I and II
2	Lecturers in the module	Prof. Helmut Bielenski, Prof. Anja Ohliger, Prof. Dr. Rainer Hirth, Prof. Dietmar Kirsch, Prof. Mario Tvrtković, Prof. Markus Schlempp, Prof. Friedemann Zeitler, lecturers of the Department of Design; other subject-related; Department supervisor
3	Teaching styles	Variety of short-time designs with presentation
4	Qualification objectives, competences	Conceptual thinking and sharpening the basic skills in design, figuration and construction.
5	Content	The Impromptu Design aims to think through a short time a small conceptual assignment without having to deal with all major thematic correlations. Impromptu Design contains more complex topics from the fields of design, figuration and construction and can be complementary with the current topics in the semester.
6	References	Relevant to the subject; Lecture notes
7	Participation prerequisite	M 1.4.1 Impromptu Design, Elective Course I
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	Study programs Interior Design and Interior Architecture and Integrated product Design
11	Workload	150 h (=5 ECTS x 30 h); Presence time 1 SWS x 60 min x 15 Weeks Lecture/ Presentation time = 15 h; Self-study = 135 h.
12	Examination type and form	Examination student work with presentation (15-20 min); Final note as the average of the single notes with the significance of the particular ECTS. Note assessment 1 (single)
13	Admission requirements	No requirements
14	Registration; repeatability	In written form; every winter and summer semester
15	Other specifics	Impromptu Design is unsupervised, autonomous work, the choice of subjects is voluntary. Impromptu Designs are rated with 1, 2 or 3 ECTS depending on the task. By the end of the 4th semester, a total of 3 tasks in regard to the fields of design, figuration and construction have to be demonstrated with at least one Impromptu Design concerning these areas.

Module 4.7

Interdisciplinary Skills II
Interdisziplinäre Aspekte II

1	Serial number	M 4.7
	Credits (ECTS)	5 (3 + 2)
	Semester hours per week (SWS)	3 (2 + 1)
	Semester, frequency, type	8. semester, annually in the summer semester, compulsory with 2 courses
	Assignment in the Curriculum	Elaborate module II, Final degree
2	Lecturers in the module	Professors and subject-related lecturers of the Department of Design, Science and Cultural Centre (WiKu) HS Coburg Department supervisor, Department coordinator
3	Teaching styles	Interdisciplinary teaching organization and teaching concept with thematic lectures, exercises and excursions
4	Qualification competences	objectives, Course I Personal profiling: Interdisciplinary, social and cultural competences - professional, cultural, aesthetic or philosophical aspects and questions of human action open, evaluate and, if necessary, formally implement in an interdisciplinary way. Course II Scientific work Scientific-methodical preparation for the Bachelor thesis. Increase the employability of students.
5	Content	Course I, Personal profiling (3 ECTS, 2 SWS) The program is intended to promote personal profiling of the students with seminars from the fields of "Cultural education", "Philosophy and Ethics" as well as "Orientation and profiling for the professional life". Course II, Scientific Work (2 ECTS, 1 SWS) Introductory Course; Mediation of professional / study program -specific scientific method competences such as - content and formal structure of the written final exam - discuss and assess complex texts and facts - appropriately and constructively visualize
6	References	Relevant to the subject
7	Participation prerequisite	
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	Department of Design, WiKu
11	Workload	150 h (=5 ECTS x 30 h); Presence time 3 SWS x 60 min x 15 Weeks Lecture/Exercise time = 45 h; Self-study = 105 h.
12	Examination type and form	2 evidence of study (StN) Note assessment: not applicable
13	Admission requirements	No requirements
14	Registration; repeatability	in written form; every summer semester

Modul 5.2

 Organization and Architectural Law II
Organisation und Recht II

1	Serial number Credits (ECTS) Semester hours per week (SWS) Semester, frequency, type Assignment in the Curriculum	M 5.2 5 4 8. Semester, jährlich im Sommersemester, Pflichtmodul Practice and elaboration II
2	Lecturers in the module	Dr.Ing. Heidi Vormann; other subject-related lecturers
3	Teaching styles	Thematic lectures and exercises
4	Qualification objectives, competences	Getting familiar with the VOB in its elements, how to practice and use it. Creating time schedules; Learn about the HOAI and the right application for the calculation of architectural fees; Generating cost estimation according to DIN 276
5	Content	VOB: Construction contract procedures, time scheduling; HOAI, DIN 276
6	References	Relevant to the subject
7	Participation prerequisite	-
8	Follow-up module	-
9	Possible combination with module	-
10	Networking within the department	-
11	Workload	150 h (=5 ECTS x 30 h); Presence time 4 SWS x 60 min x 15 Weeks Lecture/ Exercise time = 60 h; Self-study = 90 h.
12	Examination type and form	Written exam 90 Min., Note assessment 1 (single)
13	Admission requirements	-
14	Registration; repeatability	In written form; every summer semester
