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The bachelor program Architecture at KIT

Working on the creative design of the world around us using scientific methods – that is the goal of the Karlsruhe Department of Architecture at KIT.

The students in the study course Architecture acquire knowledge and skills during their studies that enable them to plan and to design the habitats of humans in the future. As architects they should contribute to creating the prerequisites for an optimal level of environmental quality for both living and working conditions that offer all sorts of developmental possibilities for society as a whole.

This presupposes an education that teaches one about the technical possibilities, provides one with knowledge about economic efficiency and, most importantly, of how to design a world that is being recreated again and again. The students need to be comprehensively prepared for the ever-changing requirements that are made of them during their professional working lives. Strengthening the practical side of things as well as a focus on research, including making use of the insights gained within university teaching, guarantees this type of education. Since 1825 one can study Architecture at our department with the aim of being awarded a diploma in this subject: as of the introduction of the bachelor and master programs in the winter semester 2009/2010 one is awarded a BA or MA degree.

The Karlsruhe Institute of Technology (KIT) has made it its aim, within the framework of implementing the Bologna process of setting up a European university landscape, of ensuring that at the end of one's studies one is as a rule awarded a master's degree. The consecutive bachelor and master study programs on offer at KIT should therefore be seen as being a comprehensive concept with a consecutive curriculum in place.

The planning and the scope of the BA study course Architecture encompasses six semesters. It ends with the degree Bachelor of Science (B.Sc.) which one is awarded after having successfully completed all exams. For this degree altogether 180 ECTS credit points have to be collected.

Within the framework of this study course skills in the following subjects, amongst others, should be attained:
  - Designing
  - Integral Designing
  - Construction Technology
  - Theoretic and Historical Basics
  - Designing and Representing
  - Urban and Landscape Planning

Within the subject Specialization modules from various subject areas can be chosen and thereby students can develop an individual profile that corresponds with their own interests.

The subject Interdisciplinary Qualifications completes the courses on offer: here one can attain general as well as practical competencies. Therefore, within the bachelor course of studies both the scientific basics as well as the connected methodic competencies are taught.

Every semester the students work in a specifically themed design studio. The individual professors supervise one respective studio personally. The design work is supported with a basic course offer specifically tailored to the students’ needs. The aim of the study course is to ensure the students’ ability of being able to successfully complete a consecutive master’s program as well as being able to successfully apply the knowledge learned in one’s later professional career. The examination regulations (attached) and the study plan based on this contain all binding requirements for the study course.

Basically, the study course is split up into modules. Every module can be made up of one or more courses which are successfully completed by passing one or more exams. The scope of each module is defined by credit points that, after successful completion of the module, are credited to the student’s account.
The module guide for the study course

In this module guide the modules and all related courses as well as progress monitoring are listed with the following information:

- Allocating a module to a discipline and those persons responsible
- Scope of the module in terms of credit points
- Module cycle, length, level, language and work requirements
- Module courses and their contents
- Progress monitoring (exams) of the modules and grade development
- Qualification aims of the modules
- Prerequisites and requirements of the modules respectively interdependency of the modules
- Recommendations and notes regarding the modules

It provides the needed orientation and is a reliable helper throughout one's studies. The module guide, however, in no way replaces the academic course catalog and the notices on the boards of the disciplines and faculties that inform up-to-date every semester about the variable event dates (e.g. time and location of a course) as well as on any short-term changes that have been made.

Exam modalities

In order to be able to take part in the module exams, students have to bindingly register online. Exams taken that have not been officially registered for are not taken into account.

The study regulations of the bachelor program Architecture dated July 26th, 2016 (official notice of the Karlsruhe Institute of Technology (KIT) No. 66 dated July 27th, 2016) defines the following in section §4 module exams, completed coursework and examination requirements:

(1) The bachelor exam is made up of module exams. Module exams consist of one or several progress monitoring checks. Progress monitoring is divided into completed coursework or examination requirements.

(2) Examination requirements are:
1. written exams,
2. oral exams or
3. other examination requirements.

(3) Completed coursework is written, oral or practical requirements that, as a rule, is undertaken by the students when attending their individual courses. The bachelor exam is not allowed to be completed just by handing in coursework.

Based on this are the terms and definitions used and defined within the module descriptions with regard to progress monitoring. Further information on the legal and administrative framework of study courses can be found in the study regulations attached to this module guide.
## Study course design bachelor program Architecture

### Bachelor Architecture

#### Exemplary Curriculum

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* Placeholder for various modules
## Architecture Bachelor (B.Sc.)

### Module Handbook as of 22.09.2019

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# 1 INTRODUCTION

## Module Handbook as of 22.09.2019

### Module Title

Architecture Bachelor (B.Sc.)

---

### 1 INTRODUCTION

Successful completion of the subjects "Designing" and "Integral Designing" and additional module examinations amounting to 76 CP.

### Bachelor Thesis

Bachelor Thesis: T-ARCH-107246

**In-depth Surveying for Architects**

**Basis Course Photogrammetry**

**Architectural Theory Research Topics**

**Selected Topics of Sustainability**

**Selected Topics of Communication in Architecture**

**Architectural Theory**

**In-depth Surveying for Architects**

### Specialization (16 CP)

#### Interdisciplinary Qualifications (6 CP)

- **Key Qualifications**
  - MARCH-103603: [Module Title]
  - [Module Component ID]
  - [Module Component Title]

- **Bachelor Thesis**
  - MARCH-103546: 12
  - Key Qualifications at the HoC: [Module Component Title]
  - Successful completion of the subjects "Designing" and "Integral Designing" and additional module examinations amounting to 76 CP.

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### Study Structure Bachelor's Program SPO2016

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### Key Qualifications

- **Key Qualifications at the HoC**
  - [Module Component Title]

- **Workshop Introduction**
  - [Module Component Title]

- **Methodical and Technical Planning Tools**
  - [Module Component Title]

- **Structural Analysis**
  - [Module Component Title]

- **Advanced: Topics of Teaching Studies and Design**
  - [Module Component Title]

- **Selected Topics of Urban Design - workshop**
  - [Module Component Title]

- **Selected Topics of Art History**
  - [Module Component Title]

- **Selected Topics of Building History**
  - [Module Component Title]

- **Building Survey**
  - [Module Component Title]

- **In-depth Surveying for Architects**
  - [Module Component Title]

- **Basis Course Photogrammetry**
  - [Module Component Title]

---

### Interdisciplinary Qualifications (6 CP)

- **In-depth Surveying for Architects**
  - [Module Component Title]

- **Basis Course Photogrammetry**
  - [Module Component Title]

- **Architectural Theory Research Topics**
  - [Module Component Title]

- **Selected Topics of Sustainability**
  - [Module Component Title]

- **Selected Topics of Communication in Architecture**
  - [Module Component Title]

- **Architectural Theory**
  - [Module Component Title]

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### Admission Requirements (10 CP)

- **Successful completion of the subjects "Designing" and "Integral Designing" and additional module examinations amounting to 76 CP.**

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### Total CP

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2.1 Bachelor Thesis

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2.2 Designing

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<td>M-ARCH-103559</td>
<td>Building Services</td>
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<tr>
<td>M-ARCH-103560</td>
<td>Construction Economics and Law for Architects</td>
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## 2.5 Theoretical and Historical Basics

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<td>M-ARCH-103562</td>
<td>Theory of Architecture 2</td>
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<td>M-ARCH-103563</td>
<td>Building History 1</td>
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<td>Building History 2</td>
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<tr>
<td>M-ARCH-103565</td>
<td>Communication of Architecture and Scientific Methodology</td>
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## 2.6 Designing and Representing

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<tr>
<td>M-ARCH-103567</td>
<td>Artistic and Sculptural Design</td>
<td>4 CR</td>
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<tr>
<td>M-ARCH-103568</td>
<td>Architectural Geometry and Digital Form Design 1</td>
<td>4 CR</td>
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<td>M-ARCH-103569</td>
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## 2.7 Urban- and Landscape Planning

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<tr>
<td>M-ARCH-103572</td>
<td>Principles of Building Studies and Design</td>
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<tr>
<td>M-ARCH-103573</td>
<td>Urban Development and Construction Planning Law</td>
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<td>M-ARCH-103574</td>
<td>Urban Development-, Building- or Art History 1</td>
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<td>M-ARCH-103575</td>
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### 2.8 Specialization

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<tr>
<td>M-ARCH-103576</td>
<td>Advanced Topic of Bachelor Thesis</td>
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**Election block: Wahlpflichtbereich Vertiefung (at least 12 credits)**

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<td>M-ARCH-103578</td>
<td>Selected Topics of Descriptive Geometry</td>
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<td>M-ARCH-103579</td>
<td>Selected Topics of Drawing</td>
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<td>M-ARCH-103580</td>
<td>Visualization Methods</td>
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<td>M-ARCH-103581</td>
<td>Selected Topics of Architecture, Furniture and Design</td>
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<td>M-ARCH-103582</td>
<td>Selected Topics of Fine Art 1</td>
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<td>M-ARCH-103583</td>
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<td>M-ARCH-103584</td>
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<td>M-ARCH-103585</td>
<td>Architectural Theory Research Topics</td>
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<td>M-ARCH-103586</td>
<td>Selected Topics of Communication in Architecture</td>
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<td>M-ARCH-103587</td>
<td>Selected Topics of Building Technology</td>
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<td>Selected Topics of Urban Design</td>
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<td>M-ARCH-103594</td>
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<td>Building Survey</td>
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<td>Basis Course Photogrammetry</td>
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### 2.9 Interdisciplinary Qualifications

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3 Modules

3.1 Module: Advanced Topic of Bachelor Thesis [M-ARCH-103576]

**Responsible:** Prof. Marc Frohn  
Prof. Simon Hartmann  
Prof. Meinrad Morger  
Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (mandatory)

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**Mandatory**

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<td>1</td>
<td>Advanced Topic of Bachelor Thesis - Portfolio</td>
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</table>

**Competence Certificate**

Completed coursework consisting of two parts:

1. Specialization Bachelor Thesis

Working on the “Specialization Bachelor Thesis” usually, as a rule, takes place individually or in groups of two; there are regular supervisory and correction sessions. The produced results in the form of drawings, models, texts and lectures are presented and assessed within the framework of presentations or workshops during one's studies.

2. Portfolio

The portfolio is created by the students individually and without any supervision. The result is handed in as a physical portfolio. The portfolio is assessed as it relates to completeness, the plausibility and comprehensibility of the presented projects, the graphical and design-related quality as well as the technically skilled quality.

**Competence Goal**

1. Specialization Bachelor Thesis

The students:

- have a well-founded vocabulary of the most important terminology within design practice and theory at their disposal.
- can develop, analyze and reflect on architectural spaces within social, cultural and technological contexts.
- are able to thematically approach and describe their working methods, based on multifaceted and partially contradictory influencing factors such as context, function, imagery etc. within the framework of a structured work process.
- are able to select and apply suitable tools for the respective steps within one's work process.

2. Portfolio

The students:

- can produce a diligently planned, well-structured and reflected documentation of their completed coursework to date.
- are able to create a suitable portfolio for internship, university, etc. applications.

**Module grade calculation**

not graded

**Prerequisites**

none
Content
"Specialization Bachelor Thesis" is a course that accompanies the module "Bachelor Thesis" which, through workshops, seminars, lectures, tutorials and/or other courses, teaches contents, methods or design tools that are related to the module "Bachelor Thesis". The portfolio represents a graphical and content-related revision and reworking of the six design drafts undertaken during the course of one's Bachelor studies. In addition, the portfolio can contain select completed coursework and one's own works. The portfolio contains information as to the author/producer (e.g. CV) and is to be produced in accordance with commonly used formats.

Recommendation
Taking this course at the same time as the module "Bachelor Thesis".

Annotation
Only one of the four courses can be booked, in each case by the examiner at whom the Bachelor's thesis is also completed.

Workload
In-class time: Supervision/presentations 30 h
Self-study components: Development of an architectural design 90 h
M 3.2 Module: Architectural Geometry and Digital Form Design 1 [M-ARCH-103568]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture  
**Part of:** Designing and Representing

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**Mandatory**

| T-ARCH-107305 | Architectural Geometry and Digital Form Design 1 | 4 CR | Beyer |

**Competence Certificate**
Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

**Competence Goal**
The students:

- have sharpened their spatial awareness and have attained the capability to think spatially which basically enables them to develop ideas and concepts within a spatial context.
- can plastically present a project using a hand drawn axonometric portrayal.
- can scan templates and edit as well as assemble these with basic digital image editing tools for further use.
- know about software for creating architectural drawings (CAAD) and can use the basic functions for 2D work.

**Module grade calculation**
The module grade is the grade of the other examination requirement.

**Prerequisites**
none

**Content**
This module is an introduction to various methods of portraying as well as teaching how to properly apply axonometric portrayals in sketches and exactly constructed portrayals. Historical and evolutionary development basics, Euclidian axiomatic theory and proof, parallel and central marking, basic and vertical planning, 2-view projections, linear transformations, axonometry, silhouettes and outlines, applying affine supporting figures as well as the geometry of spheres are all dealt with. Within the section Digital Design an introduction into architecturally relevant design and graphic software is given as well as on digital aids for project organization. The theoretical basics of digital image editing which includes pixels, vectors, resolution, color spaces, color depth, file formats etc. is also dealt with. In addition to this an introduction to current CAAD systems is given with a focus on the recording and rendering of entire design projects as 2D portrayals. Special focus is put on a sensible structuring of the project files.

**Annotation**
A part of the orientation exam.

**Workload**
Class attendance: Lectures, tutorials 60 h
Independent study: preparing/follow-up work, exam preparation, project work 60h
3.3 Module: Architectural Geometry and Digital Form Design 2 [M-ARCH-103569]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture  
**Part of:** Designing and Representing

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**Mandatory**

| T-ARCH-107306 | Architectural Geometry and Digital Form Design 2 | 4 CR | Beyer |

**Competence Certificate**  
Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

**Competence Goal**  
The students:

- know the spatial portrayal situation of the projective geometry of the central perspective.  
- can present an architectural space atmospherically in a computer-generated, rendered portrayal.  
- know CAAD systems and can use these for creating 2D drawings and 3D models for the creation of visualizations.  
- are apt at applying simple digital image editing tools in order to rework renderings.  
- know and are able to manage the basics of layout software for the design of plans and presentations.

**Module grade calculation**  
The module grade is the grade of the other examination requirements.

**Content**  
This module is an introduction into the processes of constructing perspective illustrations as well as the usage of digital tools in order to create entire project portrayals (2D/3D). Various construction procedures when it comes to perspectives (intersection procedure, turned perspective procedure), the measurement of distances, circles and cylinders in perspective as well as silhouette and outline constructions using perspective collinear figures. Within the section Digital Design the use of current CAAD software for the creation of digital 3D models and their usage for plan illustrations and spatial visualizations is taught and practiced.

Recommendation: Successful completion of the module "Architectural Geometry and Digital Design 1".

**Recommendation**  
Successful completion of the module "Architectural Geometry and Digital Form Design 1".

**Workload**  
Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation, project work 60 h
### M 3.4 Module: Architectural Geometry and Digital Form Design 3 [M-ARCH-103570]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture  
**Part of:** Designing and Representing

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**Mandatory**

| T-ARCH-107307 | Architectural Geometry and Digital Form Design 3 | 4 CR | Beyer |

**Competence Certificate**  
Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

**Competence Goal**  
The students:

- can use digital tools in order to find forms and shops as well as to work on designs.  
- know the basic design laws for a variety of media-specific products.  
- know parametric CAD software and their usage for creating design variants as well as connecting to modern, computer-aided manufacturing processes.  
- have an overview of the relevant classes of curved surfaces needed for construction forms as well as being able to understand and use complex geometrical concepts.  
- are able to select the suitable digital tools for various tasks posed and this for all design phases.  
- can apply the gained knowledge and abilities effectively and even transfer these onto new problems or tasks given.

**Module grade calculation**  
The module grade is the grade of the other examination requirements.

**Prerequisites**  
none

**Content**  
In this module the applied techniques of image editing and the efficient use of graphic/layout programs as well as an introduction to parametric tools for finding forms and the creation of variants with the necessary geometrical basics needed to do this is taught. Questions pertaining to the design of plans, posters, brochures and websites with fonts and illustrative material are discussed as well as the possibilities of digital application demonstrated. Hereby effectively working with layout applications as well as complex techniques of image editing are shown and practiced. The media-specific design and editing of documents is presented and these are applied to practical examples. Experimental approaches that use digital production aids for building models and prototypes are demonstrated.

**Recommendation**  
Successful completion of the module "Architectural Geometry and Digital Form Design 1 and 2".

**Workload**  
Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation, project work 60 h
### 3.5 Module: Architectural Theory Research Topics [M-ARCH-103585]

**Responsible:** Prof. Dr Georg Vrachliotis  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107325 | Architectural Theory Research Topics | 4 CR | Vrachliotis |

**Competence Certificate**

Other examination requirements consisting of actively participating in the seminar sessions (oral and written discussion contributions as well as presentations) as well as a study work project respectively one's own independent research work whose scope and form is dependent on the respective task assigned.

**Competence Goal**

The students:

- are able to formulate independent questions on the development or potential of theories regarding buildings, concepts, tools or models. Hereby they can carry out independently organized scientific research whilst taking related disciplines into account.
- are capable of dealing with a given or self-chosen topic in the sense of a "discursive practice" and reflect this critically. They know the needed architectural vocabulary and with the aid of this they can represent their views in a differentiated and easily comprehensible manner when involved in an interdisciplinary communicative exchange.
- have the ability to work out and interpret key content in architectural theory texts and can summarize the results in an independent text in accordance with the methods of working scientifically.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In the module "Theory of Architecture Research Fields" an assigned or self-chosen topic from the area of "History and Theory of Architecture" is analyzed and interpreted. Interdisciplinary references to philosophy, cultural studies, the history of science and technology as well as current political and social conditions are a focal point. The focus hereby is on the critical reflection and analysis in the sense of a "discursive practice".

Recommendation: Successful participation in the module "Select Areas of the Theory of Architecture".

**Recommendation**

Successful completion of the module "Selected Topics of Architectural Theory".

**Annotation**

With a mandatory excursion.

**Workload**

In-class time: Seminar 30 h  
Self-study: Preparation/follow-up, written paper/project 90 h
3.6 Module: Artistic and Sculptural Design [M-ARCH-103567]

**Responsible:** Prof. Stephen Craig

**Organisation:** KIT Department of Architecture

**Part of:** Designing and Representing

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<td>4 CR Craig</td>
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**Competence Certificate**

Other examination requirements consisting of works that are undertaken during the semester in the tutorials as well as handing in the works (workbook of the lecture series, sketching book and the complete folder of drawings) at the end of the semester.

**Competence Goal**

The students:

- can apply different methods of freehand drawing.
- have improved/refined their perceptive and observative capabilities with regard to the drawing-related spatial portrayals.
- have extended their art-theoretical and contextual knowledge regarding the topic of drawing.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Imparting the basics of freehand drawing: Tutorials on spatial perspectives using, amongst other things, focusing/transferring a 3D object onto a 2D surface with the aid of a glass plate as a perspective depiction instrument/drawing objects in space/portrait drawings as a profile, half-profile and frontal. Parallel to the drawing tutorials, lectures take place which change weekly, that supply supporting theories and background information. Based on examples from both historical and current architecture, the visual arts, film and literature, one gets an insight into the context of drawing.

**Workload**

Class attendance: Lectures, tutorials 45 h

Independent study: preparing/follow-up work, exam preparation, project work 75 h
Module: Basics of Building Construction [M-ARCH-103554]

Responsible: Thomas Haug
Organisation: KIT Department of Architecture
Part of: Construction Technology

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Mandatory
T-ARCH-107291 Basics of Building Construction 4 CR Haug

Competence Certificate
Other examination requirements consisting of the constructive, semester-accompanying work on the design project in the module "Studio Material". Working on the task is undertaken in groups of two and there is supervision and corrections made on a regular basis. The progress monitoring occurs during one’s studies in the framework of up to two intermediate and one final presentation together with the presentation in the Studio Material. There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation length of the building construction-related composition is approx. 5 minutes per group.

Competence Goal
The students:

- have the basics of construction design and its technical fundamentals at their command.
- are able to develop and to assess structures in the realm of smaller building tasks and can develop these in a detailed manner.
- can apply a basic repertoire of methods for structuring architectural designs of a low degree of complexity with regard to structure, load transfer and architectural detailing of the building components of a high-rise with regard to the technical, economic and design-related qualities.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
First the discipline and its contents in relationship to architectural design are presented. Afterwards the basics of building construction are taught. Of special importance here is the relationship between spatial disposition and the structural framework. The building components of high-rises are dealt with, their requirements, their basic structure and set-up as well as the interfaces of the building components as an important factor of the construction and design of high-rises.

Recommendation
Take this concurrently with the module "Studio Structure".

Workload
Class attendance: Lectures 30 h
Independent study: preparing/follow-up work, exam preparation, project work 90
### Competence Certificate

Other examination requirements consisting of two parts: In the framework of a written exam the important contents of the topics dealt with in the lecture as well as the accompanying texts and drawings made available will be examined. The duration of the written exam is approx. 150 minutes. Working on the accompanying exercise usually takes place, as a rule, in groups of four to five. There are regular supervision and correction sessions. The progress monitoring of the tutorial takes place within the framework of a final presentation. Here the worked out results are presented and evaluated in the form of drawings, models and presentations. The duration of the presentation is approx. 15 minutes per group.

### Competence Goal

The students:

- attain a basic understanding of the key aspects of architectural thought.
- can avail of a well-founded vocabulary of the most important terms regarding design practice and theory.
- attain a basic vocabulary of architectural references and concepts and can place these within key design aspects such as geometry, structure, context, perception, spatial boundaries, relations to humans etc. within an interdisciplinary context.
- are able to transfer these analysis and presentation abilities onto other architectural subjects.
- attain a well-founded understanding of design processes during the architectural design phase.
- can categorize design-related decisions and the architectural manifestations resulting therefrom with regard to fundamental facets of the cultural, social and technological contexts.

### Module grade calculation

The module grade is the grade of the other examination requirements.

### Prerequisites

none

### Content

Accompanying course to the design course in the module "Studio Spatial Studies". The lecture is organized into several thematic blocks that represent a systematic and targeted approach to key aspects of architectural thought. The approach is undertaken via the presentation and analysis of the important language-related vocabulary, relevant reference projects, various different design approaches as well as design processes. These are placed within their cultural, social and technological contexts. In the framework of the accompanying tutorial the students systematically analyze and document key architecture with the aid of drawings and/or models. Within the framework of the research undertaken for this analysis and documentation, the students independently compile illustrative material, drawings and texts pertaining to these buildings and, amongst other things, make use of the KIT libraries for this.

### Recommendation

Take this concurrently with the module "Studio Space".

### Workload

Class attendance: Lectures, tutorials 30 h

Independent study: preparing/follow-up work, exam preparation, project work 90 h
## Module: Basics of Urban Planning [M-ARCH-103571]

### Responsible:
- Prof. Henri Bava
- Prof. Dr.-Ing. Barbara Engel

### Organisation:
KIT Department of Architecture

### Part of:
Urban- and Landscape Planning

### Credits
4

### Recurrence
every 2. semester, WS

### Duration
1 term

### Language
German

### Level
3

### Version
2

### Mandatory

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<th>Course Code</th>
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<tr>
<td>T-ARCH-106581</td>
<td>Fundamentals of Town Planning</td>
<td>4 CR</td>
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<tr>
<td>T-ARCH-109964</td>
<td>Basics of Urban Planning - Practical Course</td>
<td>0 CR</td>
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### Competence Certificate

Written exam lasting 90 minutes on the contents of the lecture. Requirement for the exam application is having passed the completed coursework "Basics of Urban Planning - Tutorial". This consists of several tutorials on the contents of the lecture that one has to undertake during the semester.

### Competence Goal

The students:

- are able to apply urban development methods and can critically assess various different design and planning approaches.
- can avail of planning and design basic knowledge regarding various scale levels and in the following thematic fields: urban morphologies and typologies, urban ecology, free spaces, transport/infrastructure, legal aspects, urban analysis, connect development and design

### Module grade calculation

The module grade is the grade of the written exam.

### Prerequisites

none

### Content

In this module the basics regarding the thematic fields urban development, urban and regional planning as well as landscape planning are taught. Tools are introduced for urban planning structure analysis, concept development and urban planning design which are gone into in-depth within the framework of a mandatory excursion. In addition, basic knowledge on the designing of urban planning and town maps as well as scales and the introduction to portrayal and presentation techniques are the contents of this course. The module is closely related, content-wise, to the module "Studio Context".

### Recommendation

Take this concurrently with the module "Studio Context".

### Annotation

With a mandatory excursion.

### Workload

Class attendance: Lectures, tutorials 60 h

Independent study: preparing/follow-up work, exam preparation, project work 60 h
3.10 Module: Basis Course Photogrammetry [M-BGU-104004]

- **Responsible:** Dr.-Ing. Thomas Vögtle
- **Organisation:** KIT Department of Civil Engineering, Geo- and Environmental Sciences
- **Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-BGU-107444 | Basis Course Photogrammetry | 4 CR | Vögtle |

**Competence Certificate**

Other examination requirements consisting of a graded project work (drawing/constructive) which consists of a worked-out paper on one of the practical exercises.

**Competence Goal**

The students are able to:
- assess the basic photogrammetric procedures based on their performance possibilities.
- evaluate the necessary workload – and thereby the economic efficiency – depending on the various different tasks and areas of application.
- can independently undertake photogrammetric tasks with the aid of corresponding free or commercial software systems.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In the lectures the work methods, recording and evaluation procedures are presented and are gone into in-depth in follow-up practical tutorials.

**Workload**

- In-class time: Lectures, tutorials 45 h
- Self-study: Preparation/follow-up, written paper/project 75 h.
M 3.11 Module: Building Construction [M-ARCH-103557]

**Responsible:** Prof. Ludwig Wappner  
**Organisation:** KIT Department of Architecture  
**Part of:** Construction Technology

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**Mandatory**

| T-ARCH-107294 | Building Construction | 4 CR | Wappner |

**Competence Certificate**

Other examination requirements consisting of the constructive, semester-accompanying work on the design project in the module "Studio Material". Working on the task is undertaken in groups of two and there is supervision and corrections made on a regular basis. The progress monitoring occurs during one’s studies in the framework of up to two intermediate and one final presentation together with the presentation in the Studio Material. There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation length of the building construction-related composition is approx. 5 minutes per group.

**Competence Goal**

Students:

- have knowledge of construction design and its technical fundamentals at their command.
- can apply a repertoire of methods for structuring architectural designs of a low degree of complexity with regard to structure, load transfer and architectural detailing of the building components of a high-rise with regard to the technical, economic and design-related qualities.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Building Construction is taught in relation with architectural design. The teaching and application of enhanced knowledge of Building Construction is the focus. Taught is the relationship of spatial disposition and building structures with a medium level of complexity, the interfaces of building components as an important element of the construction and design of high-rises with regard to spatial, structural and physical building aspects.

**Recommendation**

Take this concurrently with the module "Studio Material".

**Workload**

Class attendance: Lectures 30 h  
Independent study: preparing/follow-up work, exam preparation, project work 90
### 3.12 Module: Building History 1 [M-ARCH-103563]

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg  
**Organisation:** KIT Department of Architecture  
**Part of:** Theoretical and Historical Basics

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**Mandatory**

| T-ARCH-107300 | Building History 1 | 4 CR | Medina Warmburg |

**Competition Certificate**

Written exam taking 60 minutes on the contents of the lecture.

**Competition Goal**

The students:

- can categorize and apply the basic and discipline-related terminology of Architecture / the History of Architecture.
- have an understanding of typologies and building designs.
- are conscious of the historical importance of architecture.
- know about the conditions under which they were built as well as the historical context.
- have basic knowledge at their command on the principal architectural structures of every era, all based on the latest research data.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

Teaching the basics and methods of the History of Architecture, introduction to discipline-specific terminology/architecture vocabulary, building designs, typologies etc. The History of Architecture from the very beginning until the 18th century.

**Workload**

Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation 60 h
3.13 Module: Building History 2 [M-ARCH-103564]

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture

**Part of:** Theoretical and Historical Basics

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**Mandatory**

| T-ARCH-107301 | Building History and Building Survey | 3 CR | Medina Warmburg |
| T-BGU-108019  | Survey                                  | 1 CR | Juretzko       |

**Competence Certificate**

Other examination requirements consisting of a written exam taking 60 minutes on the lecture contents and the results of the preparatory exercise and the tutorial Structural Recording (group work) in form of plans that portray the inspected object. The completed coursework Surveying consists of prepared calculation exercises and the handing-in of the worked out survey in the form of plans and tables.

**Competence Goal**

The students:

- have developed an awareness for the historical relevance of architecture, know about the conditions under which they were built and the historical context as well as having basic knowledge at their command on the principal architectural structures of every era, all based on the latest research data.
- have the capability of surveying a built spatial object by mapping out and drawing this free hand, also using scaled architectural plans, all in accordance with the visualization tools an architect works with.
- know the theoretical and practical basics when it comes to surveying buildings, i.e. surveying using manual hand measurements as well as geodetic support and can also apply these.
- are able to realize that what has been surveyed in an illustrated / graphical plan.
- have basic knowledge about the science of surveying.
- are able to work with tacheometers and levelling instruments.
- can transfer the survey results to CAD drawings.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Lecture: History of Architecture of the 19th and 20th century

Structural Recording: Recording as a drawing an existing historical building. The tutorial will take place in the summer semester. One needs to complete preparatory exercises as well as taking introductory lectures. In addition, a main tutorial in the form of a compact tutorial needs to be undertaken during a 4-day mandatory work excursion in the week after Whitsun/Pentecost. During the work excursion the tutorial Surveying will take place at the same time: 2 days tutorial Structural Recording, 2 days Surveying

Surveying: Recording a built-up area using modern geodetic methods and presentation in form of a CAD site plan. For the preparation one needs to work on 3 calculation exercise sheets based on the contents of the lecture.

**Recommendation**

Successful completion of the module "Building History 1".

**Annotation**

With a mandatory excursion.

**Workload**

Class attendance: Lectures, tutorials 60 h

Independent study: preparing/follow-up work, exam preparation 60 h
3.14 Module: Building Materials Science [M-ARCH-103553]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel

**Organisation:** KIT Department of Architecture

**Part of:** Construction Technology

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**Mandatory**

| T-ARCH-107290 | Building Materials Science | 4 CR | Hebel |

**Competence Certificate**

Other examination requirement that consists of handing in a written materials research paper in the specified format. All relevant information as well as the information presented in the lecture with regard to a chosen field of materials knowledge which was gone into in detail during tutorials as well is part of this progress monitoring. Apart from the written work fitting material samples are part of the work that has to be handed in.

**Competence Goal**

The students:

- are able to name the basic technical features and characteristics of the most important building materials.
- can differentiate between the and compare the materials: In how far is there a difference between facade sheets made out of zinc compared to those made out of aluminum? How do you judge the corrosion and fire resistance of both steel as well as laminated timber beams? etc.
- can independently undertake research on materials and building products.
- have developed the first skills when it comes to analyzing and critically examining existing buildings with regard to material usage.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In this module an overview of the technical features and design-related application possibilities of the most important building materials is given: natural stone, artificial stone, mineral binding agents, concrete, plastics, steel, non-ferrous metals, glass and wood. Hereby the basic damage mechanisms of the building materials are also dealt with: steel and concrete corrosion, damp and salts. Object examples from modern architecture as well as from historical building eras are examined and give a good insight into how dealing with different materials has changed over time, both in a building-construction as well as aesthetic manner.

**Workload**

Class attendance: Lectures, tutorials 60 h

Independent study: preparing/follow-up work, exam preparation, project work 60
3.15 Module: Building Physics [M-ARCH-103556]

**Responsible:** Prof. Andreas Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** Construction Technology

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**Mandatory**

| T-ARCH-107293 | Building Physics | 4 CR | Wagner |

**Competence Certificate**

Other examination requirements consisting of working on tutorial-related tasks during the course of the semester as well as attending a colloquium on this. The colloquium takes place as groups; the time frame depends on the number of people in a group (15 minutes/person). The colloquium includes – based on the worked on task handout sheets that have to be brought along – the oral examination of the topics and their foci listed in the task sheet given which are closely related to the lecture being held.

**Competence Goal**

The students:

- can name the focal points of construction physics that are relevant for building and spatial (indoor climate) concepts as well as for design and construction as well as being able to simply describe the basic physical phenomena.
- are familiar with the important aspects that are related to the sensory-based evaluation of rooms and spaces (thermally, olfactorily, visually, auditively) and can assess their dimensions based on own measurements and experiences made to date. They understand the relationship between these dimensions and the conceptual building design.
- recognize the effects of various environmental influences on a building and can interpret the influence of physical building measures on these. They know about important tools for planning as well as measuring devices to evaluate physical building dimensions.
- have at their command the relevant design and construction-supporting calculation tools for winter and summer heat insulation and thermal protection, for energy balancing as well as protection from damp.
- can interpret their measurement and calculation results and can deduce measures that need to be taken when it comes to the design as well as construction details.
- are able to talk about the relationship between buildings and the environment in a widened sense with respect to resources being used and environmental effects.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

This module teaches the basics of construction physics to the students in an architectural suitable manner. In lectures and tutorials the topics being dealt with are outdoor and indoor climate, the comfort of indoor spaces, the winter and summer-related heat insulation and thermal protection, energy balancing, passive solar energy usage, energy-efficient and climate-suitable construction, damp protection as well as acoustic and fire insulation. After a short introduction and a phenomenological look at the theoretical basics, the focus is then on the practical application of what has been learned to the actual constructive building design. For this methods and calculation tools for heat and damp insulation as well as energy balancing are introduced. In the accompanying tutorials an introduction to climatic building dimensions is given and this is recorded and assessed using measuring devices. Finally conceptual questions on damage-free, energy efficient and climate compatible construction are worked on and measuring tools for the quantification of energy-related as well as heat and damp-related issues are applied and put to use.

**Recommendation**

Take this concurrently with the module "Studio Structure".

**Annotation**

A part of the orientation exam.
Workload
Class attendance: Lectures, tutorials 45 h
Independent study: preparing/follow-up work, exam preparation, project work 75h
3.16 Module: Building Services [M-ARCH-103559]

**Responsible:** Andreas Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** Construction Technology

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**Mandatory**  
T-ARCH-107296 Building Services 4 CR Wagner

**Competence Certificate**  
Other examination requirements consisting of working on tutorial-related tasks during the course of the semester as well as attending a colloquium on this. The colloquium takes place as groups; the time frame depends on the number of people in a group (15 minutes/person). The colloquium includes – based on the worked on task handout sheets that have to be brought along – the oral examination of the topics and their foci listed in the task sheet given which are closely related to the lecture being held.

**Competence Goal**  
The students:

- can name topic foci of the technical building systems that are relevant for building technology as well as energy concepts and can simply describe the basic systems and components as well as their relation to the building.
- are familiar with the most important parameters related to the technical systems of a building and can assess their scale and dimension.
- recognize the effects of various environmental influences on a building as well as the user needs and, from this, they can deduce the requirements needed for technical building systems and can realize this within the overall building concept as well as in further design steps.
- have at their command the relevant planning and calculation tools for the dimensioning of systems and components as well as for the accounting regarding the overall energy needs of a building.
- can interpret their calculation results and deduce measures from these regarding building design, systems' design and the ongoing work on these. They can recognize interfaces between technical systems and design drafts resp. building construction drafts and can work on and with these.
- are able to discuss the relationship between buildings and the environment in a wider sense, with regard to resources being used and the influences on the environment.

**Module grade calculation**  
The module grade is the grade of the other examination requirements.

**Prerequisites**  
one

**Content**  
This module teaches the basics of Technical Building Systems to the students in an architectural suitable manner. In lectures and tutorials the questions being dealt with are those focusing on energy concepts and energy supply, heating and ventilation technology, drinking water supply and building drainage, cooling/air condition, lighting technology, electrical planning as well as installation planning and execution. In addition to the clarification of the functions of the respective technical systems and their components as well as relevant parameters, the practical application of the subject matter for the design drafts is in the foreground. For this methods and calculation tools for the dimensioning of systems and components as well as for the accounting for the overall energy needs of a building are introduced. In tutorials the dimensioning of systems and components of technical building engineering is practiced as well as the conceptual designing of various technical systems in the context of building design.

**Recommendation**  
Successful completion of the module "Building Physics". Take this concurrently with the module "Studio Material".

**Workload**  
Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation, project work 60
### 3.17 Module: Building Survey [M-ARCH-103596]

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

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**Competence Certificate**

Other examination requirements consisting of the measurements of a building plus the creation of a planning set, its drawn, graphical drafting and preparation as well as the oral and written/drawn presentation of the recorded observations on the history of its construction and usage during a final colloquium/presentation.

**Competence Goal**

The students:

- are able to practically apply and sensibly combine various different methods of format-fitting building documentation and can analyze, interpret and present the observed findings.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Producing a building documentation that satisfies all scientific requirements regarding exactness and informative value.

**Recommendation**

Successful completion of the module "Building History 2".

**Workload**

In-class time: Tutorials 30 h  
Self-study: Preparation/follow-up, written paper/project 90 h
3.18 Module: Communication of Architecture and Scientific Methodology [M-ARCH-103565]

**Responsible:** Prof. Dr. Riklef Rambow

**Organisation:** KIT Department of Architecture

**Part of:** Theoretical and Historical Basics

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**Competence Certificate**
Written exam taking 90 minutes on the contents of the lecture.

**Competence Goal**
The students:

- know the basic concepts and application areas of Architecture Communication and recognize the significance of communication for the development of high-quality architecture.
- recognize the possibilities and limitations of the most important media of Architecture Communication, can assess their logical usage and can analyze as well as evaluate complex communication strategies.
- can name the most important strategies and methods of working scientifically and can apply these onto simple questions coming from the fields of architecture and urban planning.
- can name and apply important criteria for the quality of research in order to assess relevant research results.
- know the most important scientific and epistemological concepts and are able to apply these in order to develop an independent position on working scientifically within the field of architecture and to back this up with good, sound arguments.

**Module grade calculation**
The module grade is the grade of the written exam.

**Prerequisites**
none

**Content**
The lecture "Introduction to Architecture Communication" gives an overview of the theoretical basics and application areas of architectural communication. Based on the psychological theory of expert-layperson communication, the significant interfaces of architecture and the public sphere are looked at and are critically discussed. Strategies, formats and media of communication are dealt with and are analyzed as to their suitability for various different target groups and communication contexts.

Current developments in the field of Architecture Communication and the discussion on building culture are presented and categorized based on examples. The lecture "Introduction to Working Scientifically" presents the basics of scientific as well as epistemological theory and shows their significance for working scientifically in the fields of architecture and urban planning. Quality criteria regarding scientific practice are described and are applied in an exemplary manner in order to determine what possibilities and what limitations there are in architecture when it comes to working in a scientific manner. Based on historical and current examples the most important strategies of empirical research are named and reflected on; these include qualitative, correlative, experimental and quasi-experimental strategies. Methods and tools such as questionnaires / surveys, observations and mapping are made very concrete by using examples.

**Workload**
Class attendance: Lectures, tutorials 45 h
Independent study: preparing/follow-up work, exam preparation, project work 75 h
Module: Construction Economics and Law for Architects [M-ARCH-103560]

- **Responsible:** Studiendekan/in Architektur
- **Organisation:** KIT Department of Architecture
- **Part of:** Construction Technology

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### Mandatory

| T-ARCH-107297 | Construction Economics and Law for Architects | 4 CR | Fischer, Meiringer |

### Competence Certificate

Other examination requirements consisting of a written exam taking all-in-all 120 minutes on the lecture contents Construction Economics and Architectural Law as well as the construction-economical composition of the draft project in the module "Studio Order", which is to be worked on and produced during the semester. Working on the design project takes place in the same groups as in the module "Studio Order". The result of the worked out design is a property profile.

### Competence Goal

The students:

- know the construction-economic relationship between planning, execution and resource usage.
- are able to realize planning ideas both economically and sustainably.
- have an overview of the entire sector of the construction industry.
- know the basics regarding the relationship of professional and civil law which architects are confronted with in their profession and on construction sites.

### Module grade calculation

The module grade is the grade of the other examination requirements.

### Prerequisites

none

### Content

In this module the students are taught construction-economical and architectural-legal basics. In the field of construction economics competencies with regard to economical planning and execution of construction projects are further foci. The bandwidth of topics goes from requirements planning at project start to methods during tendering and building execution all the way to practice-oriented instruments for costs planning and property evaluation. The knowledge is applied during the project work. In the area of architectural law the topics are the practice-oriented dealing with building and architect contracts with VOB (German Construction Contract Procedures) and HOAI (German Fee Regulations for Object Planners, Architects and Engineers) as well as entrepreneurial tasks when working professionally as an architect, including architectural copyright laws, professional liability insurance, architectural competitions, etc.

### Recommendation

Take this concurrently with the module "Studio Order".

### Workload

- **Class attendance:** Lectures, tutorials 60 h
- **Independent study:** preparing/follow-up work, exam preparation 60 h
3.20 Module: In-depth Surveying for Architects [M-BGU-104002]

**Responsible:** Dr.-Ing. Manfred Juretzko

**Organisation:** KIT Department of Civil Engineering, Geo- and Environmental Sciences

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-BGU-107443 | In-depth Surveying for Architects | 4 CR | Juretzko |

**Competence Certificate**

Other examination requirements that are made up of the following parts: 3 prepared calculation exercises, participating in 3 practical tutorials, the (drawn) worked out paper on one of the practical exercises as well as producing a (fictional) layout plan for the building planning application.

**Competence Goal**

The students:
- have in-depth knowledge of the fields surveying techniques as well as building development planning.
- are able to use modern surveying instruments, transferring the survey results into CAD drawings as well as being able to produce a layout for the building development planning in accordance with the legal stipulations for a simple project.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In the foreground there is the practical dealing with and usage of modern electronic tacheometers, the drawing of the survey results as well as the (fictional) production of a layout for the building development planning. In addition, the following is also taught: Introduction to the mathematical basics of the science of surveying, terrestrial laser scanning as well as an overview of the geodetic relation systems and official surveying regulations.

**Recommendation**

Successful completion of the module "Building History 2".

**Workload**

In-class time: Lectures, tutorials 45 h
Self-study: Preparation/follow-up, written paper/project 75 h
3.21 Module: Key Qualifications [M-ARCH-103602]

**Responsible:** Studiendekan/in Architektur  
**Organisation:** KIT Department of Architecture  
**Part of:** Interdisciplinary Qualifications

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**Mandatory**

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<tr>
<td>T-ARCH-107340</td>
<td>Workshop Introduction</td>
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**Elective block: Schlüsselqualifikationen zur Wahl (between 4 and 6 credits)**

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<td>Basic Course in the Study Workshop Photography</td>
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<tr>
<td>T-ARCH-109970</td>
<td>Visit lecture series Bachelor</td>
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**Competence Certificate**

The progress monitoring takes place in the form of completed coursework that varies type-wise and scope-wise, depending upon the course taken. If an internship in the building industry is being undertaken, then an internship report having at least 3 pages is to be produced. This should be handed in to the Internship Office of the faculty and needs to include a certification by the company worked at, specifying the contents and the time period of the internship. The progress monitoring of the partial completed coursework "Participation in Lecture Series" consists of the confirmation of having visited at least 15 lectures of the lecture series "Karlsruhe Architecture Lectures", "Lecture Series History of Art" or "Construction History Colloquium" of the KIT Department of Architecture.

**Competence Goal**

The students:

- know the various different study workshops of the Department of Architecture.
- are able to operate and use the machines and tools that are present there under supervision.
- know the respective safety regulations for the machines and the workshops.
- are able to select the fitting material for their own model and to work on this materially-specific.
- know the specific advantages and disadvantages of the various materials and the techniques used.
- are able to select the fitting material for their own model and to work on this materially-specific respectively being able to select the right method, setting etc. for the object that is to be illustrated.
- have made experience with teamwork, social communication and creativity techniques.
- are able to produce presentations and can apply standard presentation techniques.
- can logically and systematically argue and write.
- can avail of the authority and competence to work in a professional, job-related context.

**Module grade calculation**

not graded

**Prerequisites**

none
Content
Within this module various courses are on offer that can be taken in order to gain non-discipline related qualifications.

Mandatory parts:
During the workshop introductory courses the students get to know the study workshops wood, metal, model building and the digital workshop and they get an introduction to dealing with and using the machines present, including a safety briefing. In addition to this, knowledge on the application and working with the various different model building materials is taught. At least one course having 1 credit point within the HoC, ZAK or language courses on offer must be taken. As a rule, within the framework of a studio a course of this nature and scope is usually offered.

Elective parts:
- Basic courses of the study workshops having 2 or 4 credit points
- the entire SQ courses being offered by the HoC, the ZAK as well as the language courses of the Center for Languages. Further information on the different institutions can be found in the KIT course catalogue.
- Construction internship within the key building industry sector encompassing 120 hours of work time (3 weeks full-time work), 4 credit points
- Visiting lectures of the lecture series of the KIT Faculty of Architecture encompassing 30 hours (15 lectures), 1 credit point

Workload
In-class time: according to offer
Self-study: according to offer
3.22 Module: Methodicial and Technical Planning Tools [M-ARCH-103589]

**Responsible:** Prof. Dr.-Ing. Petra von Both  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107329 | Methodicial and Technical Planning Tools | 4 CR | von Both |

**Competence Certificate**

Other examination requirements consisting of a written/planned composition and a 15-minute presentation with a discussion of the results.

**Competence Goal**

The students:

- have a basic understanding of system-oriented, holistic thought processes as well as knowledge of the basics of integral planning.
- know select planning-supportive methods and/or IT-based techniques for various different processes within a planning process.
- are able to critically reflect on, assess and apply (problem-based) the methods and technical tools introduced in the course.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Content**

This module teaches students the theoretical basics and practical aspects of planning methodics. In addition to the general fundamentals, terms and approaches of construction methodics as well as systems engineering, the construction-specific aspects of integral planning are also focused on. Building on this, select planning-supportive methods and/or IT-supported techniques for various different processes during the course of planning a project are dealt with.

**Workload**

In-class time: Seminar 30 h  
Self-study components: preparing/follow-up work, project work 90 h
Competence Certificate
The bachelor’s thesis is comprised of the architectural design assessments and examinations that a student undertakes during the semester. Working on the design task takes place on an individual basis and regular supervisory phases respectively corrective measures take place. The progress monitoring takes place during one’s studies within the framework of one to two intermediate milestone presentations and one final one. Here the worked out results are presented in the form of drawings, models, texts and presentations and these are then graded. The duration of each presentation is approx. 20 minutes per person.

Competence Goal
The students:

- can implement the scientific, design-oriented, constructive-technical, theoretical-historical, urban planning, organizational and draft-related methods that they have acquired during their studies in a targeted manner in order to work on complex architectural design tasks.
- can analyze and reflect their design draft regarding the social, cultural and technological context, can work out variants during the design process and can compare as well as evaluate these.
- are able to work out the necessary detail level depending on the task assigned as well as being able to portray and visualize this.
- can talk about their work in front of an audience and present this as well as being able to answer examiners’ questions on the presented work in a substantive and comprehensive manner.

Module grade calculation
The module grade is the grade of the bachelor’s thesis.

Prerequisites
The prerequisite for being admitted to the module bachelor’s thesis is that the student has successfully completed
1. the subject “Design”,
2. the subject “Integral Design” and
3. additional module exams amounting to 76 credit points.

Modeled Conditions
The following conditions have to be fulfilled:

1. You need to earn at least 76 credits in the following fields:
   - Construction Technology
   - Designing and Representing
   - Urban- and Landscape Planning
   - Theoretical and Historical Basics
   - Interdisciplinary Qualifications
   - Specialization
2. The field Designing must have been passed.
3. The field Integral Designing must have been passed.
Content
The bachelor's thesis should encompass all of the competencies acquired during one's entire bachelor’s study course and represent these within a final architectural design. It should also prove that the students are qualified to now work professionally or to take up a master's study course in Architecture. Within the framework of the bachelor's thesis the students independently develop an architectural design and within a set timeframe, based on scientific, design-oriented, constructive-technical, theoretical-historical, urban planning, organizational and draft-related methods. The time allotted for working on this as well as presenting the final result is set in accordance with the schedule made by the examination board. This time schedule, uniform for all students, is handed out together with the bachelor's thesis.

With a mandatory excursion.

Annotation
For the bachelor's thesis there are topics available every semester. The examination board defines an examiner and a second examiner for every single topic. The assignment of the topics for the students takes places in accordance with a set allocation procedure.

Workload
In-class time: Supervision/presentations 60 h
Self-study components: Development of an architectural design 300 h
3.24 Module: Principles of Building Studies and Design [M-ARCH-103572]

**Responsible:** Prof. Meinrad Morger

**Organisation:** KIT Department of Architecture

**Part of:** Urban- and Landscape Planning

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**Competence Certificate**

Written exam lasting approx. 60 minutes on the contents of the lecture. Requirement for the exam application is having passed the completed coursework "Basics of Building Theory – Tutorial". This consists of several tutorials connected to the lecture contents which need to be taken during the semester.

**Competence Goal**

The students:

- have gained basic knowledge based on selected projects and references.
- are able to identify and work out the most important principles regarding context, typology, structure and space.
- can independently work on exercises based on the insights they gained from the lecture and during self-study and are able to realize these design-wise.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

A typological look at architecture requires a series of lectures that presents various different buildings within a "collected series of lectures". A willful categorization of these buildings usually takes place against the backdrop of functional and programmatic requirements. Ordering according to usage comes about and the buildings can be thematically looked at and examined in accordance to their genre. An important feature when dealing with this topic is how these buildings have evolved over time and how certain building types have disappeared, this including the framework that lead to this or have led to this in the past. What is often swept under the carpet are hybrid application usages, contextual relationships and a usage-open architecture – these all being of great relevance when it comes to a complete teaching of Building Theory. These influence respectively mutate the "pure types". Due to this, a basic understanding of architecture is being created. The tutorials go more in-depth regarding the topics of the lectures.

**Annotation**

With a mandatory excursion.

**Workload**

Class attendance: Lectures, tutorials 30 h
Independent study: preparing/follow-up work, exam preparation, project work 90 h
3.25 Module: Selected Topics of Architectural Theory [M-ARCH-103584]

**Responsible:** Prof. Dr Georg Vrachliotis  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107324 | Selected Topics of Architectural Theory | 4 CR | Vrachliotis |

**Competence Certificate**
Other examination requirements consisting of actively participating in the seminar sessions (oral and written discussion contributions as well as presentations) as well as a study work project whose scope and form is dependent on the respective task assigned.

**Competence Goal**
The students:

- are able to analyze a specific subarea of architectural theory in a systematic and differentiated manner.  
- are capable of tackling a topic, given or self-chosen, in the sense of "discursive practice" and are able to assess it using current architectural practice. They know the needed architectural vocabulary and with the aid of this they can represent their views in a differentiated and easily comprehensible manner when involved in an interdisciplinary communicative exchange.  
- have the ability to work out and interpret key content in architectural theory texts.  
- can write an independent text in accordance with the methods of working scientifically. Due to their work in research groups their team skills are well trained.

**Module grade calculation**
The module grade is the grade of the other examination requirements.

**Prerequisites**
none

**Content**
In the module "Select Areas of the Theory of Architecture" subareas of architectural theory are dealt with. In the foreground there are basic questions focusing on the current and future state of the built-up environment. Interdisciplinary references to philosophy, cultural studies, the history of science and technology as well as current political and social conditions are a focal point.

**Recommendation**
Successful completion of the module "Theory of Architecture 1" and "Theory of Architecture 2".

**Annotation**
With excursion.

**Workload**
In-class time: Seminar 30 h  
Self-study components: preparing/follow-up work, project work 90 h
3.26 Module: Selected Topics of Architecture, Furniture and Design [M-ARCH-103581]

**Responsible:** Alex Dill  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)  

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**Mandatory**

| T-ARCH-107321 | Selected Topics of Architecture, Furniture and Design | 4 CR | Dill |

**Competence Certificate**

Other examination certificate requirements consisting of an oral presentation lasting 30 minutes with a follow-up academic discussion and a tutorial as well as the active participation in the mandatory excursion program.

**Competence Goal**

The students:

- know the methods of theoretical work and design.  
- can work scientifically and analytically.  
- have gained architectural knowledge.  
- have experience and competency in working individually or in groups, time management and acting in a target-oriented manner, in presenting as well as communicating.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

This module should teach students about the theoretic as well as practical aspects of research, presentations and professional discussions on relevant topics. The contents are the current tendencies in architecture, interior rooms, art and design as well as knowledge and competencies in both designing and planning.

**Workload**

In-class time: Seminar 45 h  
Self-study components: preparing/follow-up work, project work 75 h
3.27 Module: Selected Topics of Art History [M-ARCH-103594]

Responsible: Prof. Dr. Oliver Jehle
Organisation: KIT Department of Architecture
Part of: Specialization (Wahlpflichtbereich Vertiefung)

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<td>Selected Topics of Art History</td>
<td>4 CR Jehle</td>
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Competence Certificate
Other examination requirements consisting of an oral test (qualified discussion contributions, oral presentation or an oral exam lasting for about 15 minutes) and a written paper of about 15 pages.

Competence Goal
The students:

- are able to analyze a selected art-historical topic in a proper scientific manner and are able to present their work results within the framework of a presentation and a discussion

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
Taught and learned is basic knowledge on a selected topic in Art History of the Middle Ages, the Early Modern Period or the Modern Era.

Recommendation
Taking at least one lecture in "History of Art".

Annotation
In this module there are several courses available every semester with changing topics.

Workload
In-class time: Seminar 30 h
Self-study: Preparation/follow-up, written paper/project 90 h
3.28 Module: Selected Topics of Building Construction Analysis [M-ARCH-103588]

**Responsible:** Thomas Haug  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107328 | Selected Topics of Building Construction Analysis | 4 CR | Haug |

**Competence Certificate**
Other examination requirements consisting of a term paper with a written and a drawing part in accordance with the layout requirements, 6-10 pages DIN B 4.

**Competence Goal**
The students:

- can undertake research on a chosen project.
- are able to use and work with secondary sources and, if necessary, also primary sources.
- are capable of analyzing a built project as well as being able to comprehend, clearly portray and visualize the design, the constructive execution and the materialization of the project.
- can assess and categorize projects with a view to architectural concepts and constructive realization.

**Module grade calculation**
The module grade is the grade of the other examination requirements.

**Prerequisites**
none

**Content**
The module allows the participating students to intensively deal with a realized project that is selected in a coordinated manner. After an intensive research and analysis period, the design and construction are drawn in a comprehensive manner. The results are recorded and summarized in a documentation which includes illustrations and text. Here the students portray the relationship between design idea and the actual material-based, constructive realization of the project.

**Workload**
In-class time: Supervision 5 h  
Self-study: Project work 115 h
Module: Selected Topics of Building History [M-ARCH-103595]

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107336 | Selected Topics of Building History | 4 CR | Medina Warmburg |

**Competence Certificate**

Other examination requirements consisting of an oral presentation of about 30 minutes as well as the written worked-out paper on this topic. There are certain courses where the examination requirement is project work consisting of a drawing of the given task.

**Competence Goal**

The students:

- are capable of undertaking research, can study academic literature and sources as well as being able to work in a scientific manner.
- can work on a historical construction-focused single topic within the framework of a larger thematic complex.
- are able to present the results that they have worked out regarding a historical construction-focused topic in an oral, written and drawing form.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Working on a historical construction-focused single topic within the framework of a given topic. Introduction to working scientifically.

**Annotation**

In this module several courses with changing topics are offered every semester.

**Workload**

In-class time: Seminar 30 h
Self-study: Preparation/follow-up, written paper/project 90 h
## 3.30 Module: Selected Topics of Building Physics [M-ARCH-103592]

**Responsible:** Dr.-Ing. Andreas Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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### Election block: Ausgewählte Gebiete der Bauphysik (at least 4 credits)

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<td>T-ARCH-110401</td>
<td>Basics of Fire Protection</td>
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<tr>
<td>T-ARCH-110403</td>
<td>Basics of Lighting Technology</td>
<td>2 CR</td>
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### Competence Certificate

Two oral exams of 15 minutes each on the contents of selected courses.
Competence Goal
Basics of Lighting Technology:
The students:

• understand the relationship between the characteristics of various different light sources and human perception of these as well as health aspects. From this they can deduce the requirements needed for a lighting concept for certain building usages.
• know the relevant design concepts, strategies and technologies for lighting and illumination of interior and exterior areas and can explain the physical respective technical background to these.
• are familiar with the most important parameters and features for the assessment of lighting concepts for different types of buildings.
• can identify approaches of how to realize the lighting and illumination-relevant requirements within the design whilst taking into account the learned concepts, strategies and technologies.

Basics of Sound Insulation:
The students:

• know the relevant design and construction principles, materials and technologies needed in order to fulfill sound insulation and soundproofing requirements and can explain the physical respective background to this. The same is valid for the basics of spatial acoustics.
• are familiar with the most important parameters and stipulations for the sound insulation of various different building types; they can recognize possible sources of sound respectively noise and based on this they can deduce requirements regarding the sound insulation when it comes to different types of buildings and their usage.
• can identify approaches of how to realize the technical sound insulation and sound proofing requirements in both the design and building construction phases as well as being able to realize this with technical systems by taking into account the measures learned during the course.

Basics of Fire Protection:
The students:

• know the relevant design and construction principles, materials and technologies for the fulfillment of fire protection regulations and can explain the physical respectively the technical background to these.
• recognize possible causes for sources and the spread of fires and can deduce from these requirements for fire protection for various different building usages. They are familiar with the most important parameters and stipulations for fire protection for different building types.
• can identify approaches of how to realize the technical fire protection requirements in both the design and building construction phases as well as being able to realize this with technical systems by taking into account the measures learned during the course.

Basics of Planning Energy-Efficient Buildings:
The students:

• know the various different concepts and technologies of energy-efficient building as well as their parameters and are able to understand what influence they have and what their effects are on the performance of a building.
• from this can deduce relationships between the design of buildings and the construction of building components as well as being able to recognize integral approaches for target fulfillment.
• are able to assess energy-efficient building concepts and are able to classify these within the context of the existing building stock.

Module grade calculation
The module grade is the grade of the oral exams.

Prerequisites
none
Content
This module teaches students an overview of the four important areas of building physics:

The lecture **Lighting Technology** deals with physical and physiological basics, questions of perception, basic lighting technology terminology, daylight usage, sources of artificial light and lighting control systems as well as calculation and simulation processes.

The lecture **Fire Protection** deals with building material and component characteristics as well as their technical fire protection classification, systems of fire detection technology, sprinkler systems and smoke/heat extraction, smoke and fire compartments, emergency exits as well as fire protection concepts.

The lecture **Energy-Efficient Buildings** deals with concepts and technologies regarding the topics thermal insulation, solar buildings, passive cooling as well as energy power supply based on renewable energies.

In all four lectures, in addition to the teachings of the basics based on practical examples, extensive constructive and design-based aspects related to the various different topics are discussed. Excursions supplement the respective courses on offer.

Recommendation
The successful participation in the modules "Building Physics" and "Technical Building Equipment".

Annotation
With a mandatory excursion.

Workload
Class attendance: Lectures, tutorials 60 h
Independent study: preparing/follow-up work, exam preparation, project work 60 h
### 3.31 Module: Selected Topics of Building Technology [M-ARCH-103591]

**Responsible:** Prof. Dr.-Ing. Rosemarie Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107332 | Selected Topics of Building Technology | 4 CR | Wagner |

**Competence Certificate**

Other examination requirements consisting of a presentation of the design in plans, building a model to a large scale and a written worked-out paper on the practical tutorials; in this a relationship to the design task must be presented.

**Competence Goal**

The students:

- can describe the dependencies of a spatial building envelope that consists of building materials, the supporting structure, the physical building and functional requirements as well as the production. All of this has to be related to the formal aspects regarding buildings.
- can apply simple experimental and numerical methods for the development of curved forms.
- can explain the requirements that come about regarding the design of building envelopes.
- can analyze the costs for the production of simple building envelopes based on selected building materials, joining techniques and construction methods.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

This module teaches students the theoretical and practical aspects of construction methods for spatially curved building envelopes. Building envelopes made up of various different building materials are dealt with. The module gives an overview on the dependencies of the forms and shapes to building materials, construction methods, supporting structures and building physics. Knowledge is imparted so that students are able to analyze designs that include free forms.

**Workload**

In-class time: Seminar 45 h  
Self-study: Preparation/follow-up, written paper/project 75 h
M 3.32 Module: Selected Topics of Building Technology [M-ARCH-103587]

Responsible:
Studienleiter/in Architektur
Thomas Haug
Prof.Dipl.-Ing. Dirk Hebel
Prof. Matthias Pfeifer
Prof. Renzo Vallebuona
Prof. Dr.-Ing. Petra von Both
Prof. Andreas Wagner
Prof. Dr.-Ing. Rosemarie Wagner
Prof. Ludwig Wappner

Organisation:
KIT Department of Architecture

Part of:
Specialization (Wahlpflichtbereich Vertiefung)

Credits 4
Recurrence every 2. semester, WS
Duration 1 term
Language German
Level 3
Version 1

Mandatory
T-ARCH-107327 Selected Topics of Building Technology

Competence Certificate
Other examination requirements consisting of a seminar paper in written and/or drawn form of maximum 20 pages and a presentation or an oral talk taking maximum 20 minutes.

Competence Goal
The students:

- have a well-founded vocabulary of building-technological and specialized terminology at their disposal.
- can work on building-technological tasks and questions within a design context.
- are able to consequently adjust their method of working based on manifold and partially contradictory influencing factors such as materials, function, design etc. within the framework of a structured working process.
- are able to select and apply suitable tools for the respective steps within the work process.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
The focus content-wise is on the building-technical work on a certain topic. Hereby questions dealing with the fields of building construction, sustainable building, methods of design, structural support planning, material science, the history of building technology, building technology, building physics, technical equipment and extensions or the building lifecycle management are worked on.

Annotation
Only one of the courses on offer can be chosen. The individual courses are only offered on an irregular basis. The respective offers and their topics are listed in the course catalog.

Workload
In-class time: Seminar 45 h
Self-study components: preparing/follow-up work, project work 75 h
3.33 Module: Selected Topics of Communication in Architecture [M-ARCH-103586]

**Responsibility:** Prof. Dr. Riklef Rambow  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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<td>Selected Topics of Communication in Architecture</td>
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**Competence Certificate**  
Other examination requirements consisting of a presentation/oral report taking 30 minutes and a written paper of max. 20 pages.

**Competence Goal**  
The students:

- can select in a targeted manner and design visual as well as verbal presentation media in order to be able to make their design thoughts and ideas easily understandable and to communicate these in a convincing manner.
- know what a narrative structure is, what types of structures there are and how they can optimally exploit their rhetorical potential in order to be able to convince a variety of target audiences.
- recognize important performative aspects regarding the presentation of designs, being also able to analyze and evaluate these. They can produce and formulate a script for their own, independent presentation.
- can work in a self-organized and reflected manner, they have organizational competencies at their disposal as well as the social competence to give and to receive critical feedback.

**Module grade calculation**  
The module grade is the grade of the other examination requirements.

**Prerequisites**  
none

**Content**  
The course's focus is on the successful teaching and understanding of the qualities of architectural designs. Based on communication-psychological and rhetorical approaches it is demonstrated how a customized, argumentatively consistent strategy for portrayals and presentations can be developed and realized in a convincing manner using media tools. Visual formats such as sketches, various different forms of plans, photos and perspectives are critically discussed and tested as well as optimized as to their communicative limits and possibilities. Through practical application with written and oral feedback techniques basic communication skills are systematically trained.

**Recommendation**  
Successful participation in the module "Architecture Communication and Working Scientifically".

**Workload**  
In-class time: Seminar 30 h  
Self-study: Preparation/follow-up, written paper/project 90 h
Module: Selected Topics of Descriptive Geometry [M-ARCH-103578]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107318 | Selected Topics of Descriptive Geometry | 4 CR | Beyer |

**Competence Certificate**

Other examination requirements consisting of a project documentation in the form of a composition of the contents of the lectures and tutorials or the seminar as an own project and presentation (duration approx. 10 minutes). This includes documentation (in the form of texts or plans/posters) of same.

**Competence Goal**

The students:

- have acquired knowledge on a specialized area of geometry and can apply this for questions relating to the architectural design context.
- can execute research using scientific methods as well as being able to plan experiments or tests and can deduce their own conclusions from these.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

This module provides an introduction to various different areas of geometry with changing topics.

**Workload**

Class attendance: Lectures, tutorials 45 h  
Independent study: preparing/follow-up work, exam preparation, project work 75 h
Module: Selected Topics of Drawing [M-ARCH-103579]

**Responsible:** Udo Beyer

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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### Mandatory

| T-ARCH-107319 | Selected Topics of Drawing | 4 CR | Beyer |

**Competence Certificate**
Other examination requirements consisting of the drawings made during the excursion.

**Competence Goal**
The students:

- have confronted and dealt with their own individual positions and perceptions using the drawings and can observe and assess these on a new level.

**Module grade calculation**
The module grade is the grade of the other examination requirements.

**Prerequisites**
none

**Content**
Introductory seminar to concepts of perception and artistic practice. Practicing one's own approach to things by drawing on an excursion.

**Annotation**
With excursion.

**Workload**
In-class time: Seminar, Excursion 90 h
Self-study components: preparing/follow-up work 30 h
### 3.36 Module: Selected Topics of Fine Art 1 [M-ARCH-103582]

**Responsible:** Prof. Stephen Craig  
**Organisation:** KIT Department of Architecture  
**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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#### Mandatory

| T-ARCH-107322 | Selected Topics of Fine Art 1 | 4 CR | Craig |

### Competence Certificate

Other examination requirements consisting of handing in and presenting the semester works produced during the semester (scope, number and type vary according to the topic). Mandatory and a prerequisite is the regular participation in class.

### Competence Goal

The students:

- can apply drawing techniques.
- are able to record the proportions and the layout of an object and are able to translate this in a drawn atmospheric image composition.
- have developed creative potential as well as having sharpened their own personal perceptive skills.
- are able to conceptually work out a topic with the aim of postulating their own thesis and to realize this whilst working freely on a project.
- can critically assess and question as well as being able to come up with comparative deductions.
- are able to select the right means and forms for their statements and produced work.

### Module grade calculation

The module grade is the grade of the other examination requirements.

### Prerequisites

none

### Content

In this module changing topics in various forms of expression as, for example, (nude) drawing, plastic and sculptural design, book design etc. are all taught. At the beginning observing, perceiving and targeted questioning of that what one is focusing on as well as intensively dealing with the topic all build the fundamentals for the design process as a whole. The insights gained are analyzed, interpreted and formulated into an own statement. After the students have found their topic, their concept, they can then realize this by working freely.

### Recommendation

Successful completion of the module "Visual and Sculptural Design".

### Workload

**In-class time:** Seminar / Tutorials 45 h  
**Self-study components:** preparing/follow-up work, project work 75 h
Module: Selected Topics of Fine Art 2 [M-ARCH-103583]

Responsible: Prof. Stephen Craig
Organisation: KIT Department of Architecture
Part of: Specialization (Wahlpflichtbereich Vertiefung)

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Mandatory

| T-ARCH-107323 | Selected Topics of Fine Art 2 | 4 CR | Craig |

Competence Certificate
Other examination requirements consisting of handing in and presenting the semester works produced during the semester (scope, number and type vary according to the topic). Mandatory and a prerequisite is the regular participation in class.

Competence Goal
The students:

- can apply drawing techniques.
- are able to record the proportions and the layout of an object and are able to translate this in a drawn atmospheric image composition.
- have developed creative potential as well as having sharpened their own personal perceptive skills.
- are able to conceptually work out a topic with the aim of postulating their own thesis and to realize this whilst working freely on a project.
- can critically assess and question as well as being able to come up with comparative deductions.
- are able to select the right means and forms for their statements and produced work.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
Successful completion of the module "Select Areas of the Visual Arts 1"

Content
In this module changing topics in various forms of expression as, for example, (nude) drawing, plastic and sculptural design, book design etc. are all taught. At the beginning observing, perceiving and targeted questioning of that what one is focusing on as well as intensively dealing with the topic all build the fundamentals for the design process as a whole. The insights gained are analyzed, interpreted and formulated into an own statement. After the students have found their topic, their concept, they can then realize this by working freely.

Recommendation
Successful completion of the module "Visual and Sculptural Design".

Workload
In-class time: Seminar / Tutorials 45 h
Self-study components: preparing/follow-up work, project work 75 h
3.38 Module: Selected Topics of Structural Design [M-ARCH-104513]

**Responsible:** Prof. Matthias Pfeifer  
Prof. Dr.-Ing. Rosemarie Wagner  

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-109243 | Selected Topics of Structural Design | 4 CR | Pfeifer, Wagner |

**Competence Certificate**

Other examination requirements consisting of seminar papers in written and/or drawn form encompassing a maximum of 20 pages and a presentation or an oral talk lasting a maximum of 20 minutes.

**Competence Goal**

The students:

- have the vocabulary of the terminology of load-bearing and supporting structures at their command.
- can grasp and record structures and subcategorize these into partial supporting structures.
- are able to analyze and realize different topics in a support structure planning way.
- can integrate this knowledge in one's own design process and be able to draft and design load-bearing support structures.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Based on the basic knowledge gained from the mandatory courses in the field of support structure planning, these are gone into in-depth and applied by working on a topic in a supporting structure planning way. The necessary skills for in-depth design methods of supporting structure planning are also taught.

**Annotation**

Maybe with a mandatory excursion.

**Workload**

In-class time: Seminar 45 h  
Self-study: Preparation/follow-up, written paper/project 75 h
Module: Selected Topics of Sustainability [M-ARCH-103684]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107426 | Selected Topics of Sustainability | 4 CR | Hebel |

**Competence Certificate**

Other examination requirements consisting of a worked out, written paper of a self-chosen topic within the framework of the seminar, having coordinated this with the lecturer beforehand.

**Competence Goal**

The students:

- understand the influence and effects of the usage of extracted and extended resources and raw materials in the construction industry.
- are able to understand and independently assess the complete lifecycle of a building product with regard to its sustainability.
- are capable of applying their knowledge for the usage, and eventually (if there is interest), for the research and invention of new and alternative building materials.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In the wake of industrialization our construction industry has focused more and more on mineral-related, finite material sources that are invariably coming to an end due to the intensive extraction of these. The 21st century is now allowing a paradigm change to take place: A reorientation from extraction to extension as well as a full reusage of our material resources. This requires the (re)discovery, research and development of alternative building materials and a transition in their industrial application. The aim of the joint seminar work which includes lectures, discussions, oral presentations, experiments as well as a final written paper is to highlight the potential and application possibilities of such alternative building materials within a sustainable, industrialized construction industry.

**Workload**

In-class time: Seminar 30 h

Self-study components: preparing/follow-up work, project work 90 h
Module: Selected Topics of Urban Design [M-ARCH-103593]

 Responsible: Prof. Henri Bava  
Prof. Dr.-Ing. Barbara Engel  
Prof. Markus Neppl  

 Organisation: KIT Department of Architecture  
Part of: Specialization (Wahlpflichtbereich Vertiefung)

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<td>Selected Topics of Urban Design</td>
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Competence Certificate
Other examination requirements consisting of a term paper in written and/or drawn form to the scope of maximum 20 pages and a presentation or an oral talk of maximum 20 minutes duration.

Competence Goal
The students:

- can avail of a well-founded vocabulary when it comes to urban development/planning and discipline-specific terminology.
- are able to structure and portray manifold and partially contradictory urban development or landscape planning problems and themes.
- have basic knowledge of how to work scientifically and are able to work out their own positions on the topic. They can present this discipline-specific knowledge in a fitting manner and form.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
The contents of the module are working on an urban development topic. Hereby questions from the fields of city district planning, international urban development, landscape architecture or regional planning are worked on.

Annotation
The individual courses are on offer only on an irregular basis. The respective courses on offer as well as the topics are listed in the course catalogue.

Workload
In-class time: Seminar 45 h
Self-study components: preparing/follow-up work, project work 75 h
3.41 Module: Selected Topics of Urban Design - Workshop [M-ARCH-103811]

**Responsible:**
- Prof. Henri Bava
- Prof. Dr.-Ing. Barbara Engel
- Prof. Markus Neppl

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107697 | Selected Topics of Urban Design - Workshop | 4 CR | Bava, Engel, Neppl |

**Competence Certificate**
Other examination requirements consisting of a term paper in written and/or drawn form to the scope of maximum 20 pages and a presentation or an oral talk of maximum 20 minutes duration.

**Competence Goal**
The students:

- can avail of a well-founded vocabulary when it comes to urban development and discipline-specific terminology.
- are able to structure and portray manifold and partially contradictory urban development or landscape planning problems and topics.
- have basic knowledge of how to work scientifically and are able to work out their own positions on a topic. They can present this discipline-specific knowledge in a suitable form.
- can develop their own opinions on urban development questions and can represent these during discussions.

**Module grade calculation**
The module grade is the grade of the other examination requirements.

**Prerequisites**
none

**Content**
The contents of the module is working on an urban development topic within the framework of, for example, a workshop, a summer university course or an excursion.

**Annotation**
The individual courses are only offered on an irregular basis. The respective offers and their topics are listed in the course catalog.

**Workload**
In-class time: Seminar/Workshop/Excursion 90 h
Self-study: Preparation/follow-up, written paper/project 30 h
### Module: Selectet Topics of Building Studies and Design [M-ARCH-103577]

**Responsible:**
- Alex Dill
- Prof. Marc Frohn
- Prof. Simon Hartmann
- Prof. Meinrad Morger

**Organisation:**
- KIT Department of Architecture

**Part of:**
- Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107317 | Selectet Topics of Building Studies and Design | 4 CR | Dill, Frohn, Hartmann, Morger |

**Competence Certificate**
Other examination requirements consist, as a rule, of seminar papers in written and/or drawn form to the scope of, as a rule, maximum 40 pages and a presentation or an oral presentation taking maximum 20 minutes as a whole.

**Competence Goal**
The students:

- can avail of a well-founded vocabulary of the terminology used within design practice and theory.
- can work out, analyze and reflect on architectural spaces within social, cultural and technological contexts.
- are able to thematically describe and analyze their work methodology, based on multifaceted and partially contradictory influencing factors such as context, function, imagery, etc. within the framework of a structured work process.
- are able to select and apply suitable tools for the respective steps within their work processes.

**Module grade calculation**
The module grade is the grade of the other examination requirements.

**Prerequisites**
none

**Content**
The topic that they will work on is chosen by the students themselves and must be communicated to and coordinated with the teachers. At the start of the semester the students have to produce a short exposé which clearly defines the question/topic, relevance, aims and ways of approaching the subject matter. During the course of the semester an in-depth analysis and working out of the topic takes place. The content-related focus is on the interaction and analysis with topics having to do with architectural spaces, building planning and building theory. Getting closer to the core issues is done by examining relevant reference projects, various different design approaches and/or design processes as well as dealing with the architectural vocabulary. These should be placed within cultural, social and technological contexts and thematically analyzed.

**Annotation**
Only one of the four courses can be chosen. The individual courses are on offer at irregular intervals.

**Workload**
- In-class time: Seminar 30 h
- Self-study components: preparing/follow-up work, project work 90 h
3.43 Module: Static and Strength of Materials [M-ARCH-103555]

**Responsible:** Prof. Dr.-Ing. Rosemarie Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** Construction Technology

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<td>Static and Strength of Materials - Practical Course</td>
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**Competence Certificate**

Written exam taking 300 minutes.

Requirement for the exam application is having passed the coursework “Statics and the Science of Material Strengths - Tutorial”. This is made up of several semester-accompanying tutorials that are directly related to the lecture contents.

**Competence Goal**

The students:

- can analyze simple supporting structures.
- are able to organize the spatial structure of the supporting structures.
- can describe the load carrying and its effects on the supporting structure and are able to portray the hierarchy of the supporting structure within the structure as a whole.
- can bring the structure with its spatial design into context with their own design.
- can explain the interconnections that result from the basics of construction statics when it comes to the measurements of the building components and can apply these onto simple supporting structures.
- can describe the basic laws of building statics and are able to apply these when developing a simple supporting structure.
- are able to communicate with the planners of supporting structures in their technical terminology and know about the theoretical relationships between form-determining sizes of the building components and supporting structures with regard to the internal load.
- are able to undertake simple calculations for a rough estimation of the dimensioning of components and to use the necessary aids for this in a proper, methodical manner.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

This module teaches students the theoretical and practical aspects for planning simple supporting structures. The basics of the effects of the transmission of torques and forces onto supporting structures and for building components are dealt with. In this module an overview of the spatial organization of simple supporting structures and the knowledge about the laws of fundamental construction statics for practical application within supporting structures is given. This knowledge is used for the analysis of the supporting structure of the design project in the module Studio Structures in order to describe and illustrate the load-bearing characteristics and the supporting structure itself in one’s own words.

**Recommendation**

Take this concurrently with the module "Studio Structure".

**Workload**

Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation, project work 60
3.44 Module: Structural Analysis [M-ARCH-103590]

**Responsible:** Prof. Matthias Pfeifer

**Organisation:** KIT Department of Architecture

**Part of:** Specialization (Wahlpflichtbereich Vertiefung)

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**Mandatory**

| T-ARCH-107330 | Structural Analysis | 4 CR Pfeifer |

**Competence Certificate**

Other examination requirements consisting of the supporting structure analysis of an existing building that is drawn up during the semester, the presentation of the results in an oral talk of about 20 minutes duration and a written paper of maximum 20 pages. The work takes place in groups of two and regular supervision respectively corrections take place.

**Competence Goal**

The students:

- can carry out independent research on a building, especially when it comes to the supporting structure of said building.
- are able to analyze and interpret the researched data.
- can portray the analyzed structure in an abstract manner and can clearly explain its functions and operating principles.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

In the course existing buildings are looked at regarding their building history, historical background, building typology and construction. A special focus is on the analysis of the supporting load-bearing structure. In every semester a new thematic focus is dealt with.

**Recommendation**

Successful completion of the module "Structural Design".

**Annotation**

With a mandatory excursion.

**Workload**

In-class time: Seminar 45 h

Self-study components: preparing/follow-up work, project work 75 h
Module: Structural Design [M-ARCH-103558]

Responsible: Prof. Matthias Pfeifer
Organisation: KIT Department of Architecture
Part of: Construction Technology

Credits: 4
Recurrence: every 2. semester, WS
Duration: 1 term
Language: German
Level: 3
Version: 2

Mandatory

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Competence Certificate
Written exam taking about 180 minutes on the contents of the lecture.

Requirement for the exam application is having passed the completed coursework "Supporting Structure Design Composition of the Studio Design". This consists of the semester-accompanying structural design composition of the draft project in the module "Studio Material" which is to be worked on and produced during the semester. Working on the design project takes place in the same groups as in the module "Studio Material". In the course of the semester up to three supervisions resp. corrections take place. This part of the progress monitoring occurs during one's studies in the framework of up to two intermediate and one final presentation together with the presentation in the "Studio Material". There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation duration of the supporting structure design composition is approx. 5 minutes per group.

Competence Goal
The students:

- know the basic terminology of load-bearing constructions and supporting structures.
- have the skills, based on this basic knowledge, to be able to work and successfully cooperate with structural planers and engineers during the design, planning and construction phases.
- are able to analyze the load-bearing capacity and the principles of different types of supporting structures, are able to grasp the different possibilities of the load transfer within a structure and can quickly assess the dimensions and volumes of the different powers at play.
- understand the decisive influence of the specific building material characteristics on the load-bearing capacity and can apply this knowledge in a targeted manner for the fulfillment of stipulated building conditions.
- are able to understand the building design parameters resulting from the choice of building materials used and to be able to roughly estimate the dimensions of individual building elements whilst taking into account the various supporting structures needed.
- know the various supporting structure types and systems with their specific advantages and disadvantages as well as knowing the methods to roughly estimate building elements of these supporting structure systems.
- recognize the relation between load-bearing construction, material selection, building details and architectural design results and being able to grasp the fact that the supporting structure design is an integral part of the design as a whole.
- can apply the knowledge learned for their own studio design drafts, can select various supporting structures with regard to material, function and design/shape and are able to successfully integrate these into their design draft process.

Module grade calculation
The module grade is the grade of the written exam.

Prerequisites
none
Content
In the module the Science of Supporting Structures both the basic functions and the effects emanating from the various different important supporting structures (physical and technical basics) are taught in addition to, and especially, the significance of the supporting structure design in the architectural design process with a view to form, function, sustainability and design/shape. Based on examples, the different types of supporting structures and their variants regarding features and usage possibilities are presented and analyzed. Basic load-bearing constructions such as one or multiple-field supports, trusses, framework supporting structures, arch or rope constructions but also special types of supporting structures such as reinforced concrete structures, hall structures or modular structures (e.g. prefabricated lightweight construction systems) are discussed. Another topic is the bracing or reinforcing of buildings or even the "construction below zero". Here there is a special emphasis on the influence of material characteristics upon construction and design of building elements and structures; i.e. construction using the proper materials.

Recommendation
Take this concurrently with the module "Studio Material".

Workload
Class attendance: Lectures, tutorials 60 h
Independent study: preparing/follow-up work, exam preparation, project work 60 h
3.46 Module: Studio Context [M-ARCH-103550]

Responsible:  Prof. Henri Bava  
             Prof. Dr.-Ing. Barbara Engel

Organisation: KIT Department of Architecture
Part of: Designing

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Mandatory

| T-ARCH-109961 | Design in Studio Context | 10 CR | Bava, Engel |

Competence Certificate

Other examination requirements consisting of design work produced during the semester. Working on the design task takes place in groups of four, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 20 minutes per group.

Competence Goal

The students:

- can with the aid of various methods analyze, structure and formally describe problems in the field of urban planning design.
- are able to recognize urban planning processes and to independently work on integrative solutions to problems.
- are able to articulate their design ideas orally, in writing, as drawings and as models.
- are able to work in and with a team, are able to organize their work processes in a timely and content-related manner as well as being able to present the work results in an appropriate manner, including presenting to third parties.

Module grade calculation

The module grade is the grade of the other examination requirements.

Prerequisites

none

Content

Within the project a large-scale design is developed that covers various different scale and size levels all within an urban context. The module also covers having a look at cities and urban areas, landscapes and settlements within their individual contexts. The knowledge and competencies gained in the module “Basics of Urban Planning” are practically applied within the project.

Recommendation

Take this module along with the modules "Basics of Urban Planning", "Principles of Building Studies and Design" and “Urban Development and Construction Planning Law”.

Annotation

Only one of the three courses can be booked. An even distribution of the students for the three courses/professors takes place in accordance with an allocation procedure based on priorities.

With a mandatory excursion.

Workload

In-class time: Supervision/presentations 45 h
Self-study components: Development of an architectural design 225 h
3.47 Module: Studio Material [M-ARCH-103549]

**Responsible:** Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture

**Part of:** Designing

### Credits

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**Mandatory**

| T-ARCH-109960 | Design in Studio Material | 10 CR | Wappner |

**Competence Certificate**

Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

**Competence Goal**

The students:

- can apply methods for the working out and evaluation of alternative solutions for medium complexity design and construction tasks.
- are able to portray various dimensional spaces in both cross-section and layout planning.
- can systematically structure both the shell and the supporting structure.
- are able to plan and evaluate lighting and atmosphere of large spaces.
- can systematically select concepts and optimize these, can work on these in an exemplary manner and make these more precise in a constructive manner with the focus on clarifying what materials should be used.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

Successful completion of the module "Studio Structure".

**Modeled Conditions**

The following conditions have to be fulfilled:

1. The module M-ARCH-103548 - Studio Structure must have been passed.

**Content**

In this module knowledge about and skills for designing and constructing based on medium complexity tasks from the field of civil engineering are taught. Here the focus is on the clarifying the context, the spatial functional and constructive structure whilst taking into special account the material and system-related structural joining principles. Especially the materialization of the designs is looked at and knowledge about structural design and technical building systems is incorporated.

**Recommendation**

Take this module along with the modules "Building Construction", "Structural Design" and "Technical Building Systems".

**Annotation**

Only one of the three courses can be booked. An even distribution of the students for the three courses/professors takes place in accordance with an allocation procedure based on priorities.

With a mandatory excursion.

**Workload**

In-class time: Supervision/presentations 60 h

Self-study components: Development of an architectural design 240 h
3.48 Module: Studio Space [M-ARCH-103547]

**Responsible:** Prof. Marc Frohn

**Organisation:** KIT Department of Architecture

**Part of:** Designing

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**Mandatory**

| T-ARCH-109958 | Design in Studio Space | 10 CR | Frohn |

**Competence Certificate**

Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

**Competence Goal**

The students:

- have a basic understanding of the significant cultural, social and technological dimensions of spatial studies and architecture.
- can recognize basic architectural elements and spatial strategies, can analyze their conforming principles and can apply these in their own design work. They can, under supervision, formulate simple ideas and concepts and, under guidance, can develop simple spatial approaches based on this.
- are capable of transferring and integrating the design concept, based on fundamental influencing factors such as context, function, light etc., into a building within the framework of a structured design process. In addition, they can work out variants and compare these during the design draft process.
- can describe, portray, analyze, individually design and evaluate architectural spaces and spatial sequences regarding geometry, light and usage. They have at their command a basic spatial understanding and imaginative power as well as being able to create basic spatial relations and connections.
- understand the basic design-oriented and order-building principles, can develop these as well as being able to apply these.
- grasp the fundamental principles of architectural drawings and design as well as model building.
- recognize basic spatial and architectural relations within their setting.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

None

**Content**

In the studio, parallel to the lecture "Basics of Design Theory – Architectural Thinking 1", the basics of architectural design are taught. During the course of the semester architectural queries with increasing levels of complexity based on analysis and design tasks are worked on. Fundamental knowledge of architectural elements, bodies, space (spatial sequences), context, spatial programs as well as the relationship to humans and their perception are all taught.

**Recommendation**

Take this module along with the module "Basics of Design Theory".

**Annotation**

Only one of the three courses can be booked. An even distribution of the students for the three courses/professors takes place in accordance with an allocation procedure based on priorities.

With a mandatory excursion.
Workload
In-class time: Supervision/presentations 60 h
Self-study components: Development of an architectural design 240 h
3.49 Module: Studio Structure [M-ARCH-103548]

Responsible: Prof. Ludwig Wappner
Organisation: KIT Department of Architecture
Part of: Designing

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Competence Certificate
Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one’s studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

Competence Goal
The students:

- learn methods regarding the development, working on and evaluation of alternative solutions for design and construction tasks that have a low complexity level.
- are able to develop projects from the urban planning stage to the principle spatial disposition all the way to materialization and the joining of building components.
- can develop concepts in a systematic manner, select alternatives as well as being able to optimize these.
- are able to work through these in an exemplary and detailed manner and to constructively make these more precise with a focus on the clarification of the building structure.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
This module teaches the basics of design and construction based on low-complexity design tasks coming from the field of civil and structural engineering. Here the focus is on clarifying the context, the spatial functional and constructive structure whilst taking into special account the material-related and system-related structural joining principles.

Recommendation
Recommendation: Take this module along with the module "Basics of Building Construction"

Annotation
Only one of the three courses can be booked. An even distribution of the students for the three courses/professors takes place in accordance with an allocation procedure based on priorities.

With a mandatory excursion.
A part of the orientation exam.

Workload
In-class time: Supervision/presentations 60 h
Self-study components: Development of an architectural design 240 h
### 3.50 Module: Studio System [M-ARCH-103551]

**Responsible:** Prof.Dipl.-Ing. Dirk Hebel  
**Organisation:** KIT Department of Architecture  
**Part of:** Integral Designing  

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**Mandatory**  
T-ARCH-109962 Design in Studio System 10 CR Hebel

**Competence Certificate**  
Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place individually or in groups; regular supervision respectively corrective sessions take place. The progress monitoring takes place during an individual's studies within the framework of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts, and presentations.

**Competence Goal**  
The students:

- are able to work on a complex planning project. For this they learn both the ability to analyze the context as well as being able to create usage, development, access, and layout concepts.
- are able to name targeted and those aspects that are relevant for their respective designs regarding sustainable building methods and are able to transfer these into an architectural design.
- can apply all of the already learned competencies in the areas of building physics, technical systems and structural support planning onto a complex topic and recognize the integration of the various disciplines in the design process as an essential basis for sustainable building.
- are able to work out a suitable presentation and portrayal concept which also includes a 3D presentation of the project.

**Module grade calculation**  
The module grade is the grade of the other examination requirements.

**Prerequisites**  
none

**Content**  
In the studio "Order" the basics that are taught in the module "Sustainable Building" are transferred to an architectural design draft, then evaluated and discussed. In the course of the semester a complex planning project from the field of residential and housing construction will be worked on at various scale levels, all based on analysis and design tasks. Through the integration of the disciplines Structural Support Planning, Construction Physics and Technical Extension into the design project itself one can then define and fully understand what is meant by the term "sustainable building". This is an interdisciplinary approach which is undertaken in an integrative manner.

**Recommendation**  
Due to the simultaneous mandatory attendance of the lecture "Sustainable Building" synergies are given so that the gained insights from the various disciplines and scale levels can be transferred to and, of course, integrated into the architectural design project.

**Annotation**  
Only one of the three courses can be booked. An even distribution of the students for the three courses/professors takes place in accordance with an allocation procedure based on priorities. With a mandatory excursion.

**Workload**  
In-class time: Supervision/presentations 60 h  
Self-study components: Development of an architectural design 240 h
Module: Sustainability [M-ARCH-103552]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel

**Organisation:** KIT Department of Architecture

**Part of:** Integral Designing

**Credits**

4

**Recurrence**

every 2. semester, WS

**Duration**

1 term

**Language**

German

**Level**

3

**Version**

1

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### Competence Certificate

Other examination requirement that consists of an oral discussion on the topics of the lecture.

### Competence Goal

The students:

- know the basics of sustainable building.
- know the important milestones, models and systems for categorizing and evaluating sustainable concepts within construction.
- have gained knowledge on the interaction of ecological, economical, social, ethical and aesthetic sustainability within construction.
- can – even if these are partially contradictory – recognize, evaluate and weigh the requirements coming from the various disciplines regarding the aspect of sustainability.
- are able to realize the knowledge gained within the architectural design project.

### Module grade calculation

The module grade is the grade of the other examination requirements.

### Prerequisites

none

### Content

In this module the basics as well as thoughts dealing with the topic of sustainable building are presented and discussed. Thereby, on the one hand, the significance of the topic within its historical dimension is highlighted as well as, on the other hand, the relevance for future construction projects. The question as to the sensible and ethical use of natural resources within construction is the focal point of what is being examined. Thereby, a differentiation is made between usage and consumption of our natural living conditions. Presented are models and positions on construction based on cycles, certification models, integral planning, lifecycle assessment, energy consumption and needs as well as the provision thereof, the minimization of material usage, customer satisfaction, participation in design processes all the way to large-scale looks at land distribution and urban planning tasks. The term sustainability is therefore discussed within its ecological, economical, social, ethical and aesthetic dimension, specifically for future building tasks. Students should be able to reflect the described topics independently and critically as well as being able to integrate these into their design plans as a matter of fact.

### Recommendation

Due to the simultaneous mandatory attendance of "Studio Order" synergies are given so that the gained insights from the various disciplines and scale levels can be transferred to and, of course, integrated into the architectural design project.

### Workload

In-class time: Supervision/presentations 30 h

Self-study components: Development of an architectural design 90 h
### Module: Theory of Architecture 1 [M-ARCH-103561]

**Responsible:** Prof. Dr Georg Vrachliotis  
**Organisation:** KIT Department of Architecture  
**Part of:** Theoretical and Historical Basics

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**Competence Certificate**

Written exam taking 90 minutes on the contents of the lecture. Requirement for the exam application is having passed the completed coursework “Architecture Theory 1 - Tutorial”. This consists of the weekly compilation of written position papers on the respective lecture topics of approx. half an A4 page. The minimum number of position papers that have to be handed in will be made public at the start of the university semester (approx. half of the number of lectures).

#### Competence Goal

The students:

- are familiar with the developments in architecture theory and the basics of modern architectural theories and have acquired context knowledge on society, philosophy and culture.
- can identify architectural styles of thought and designs within the respective historical (time-wise) and cultural context and can recognize the relevance for the current ongoing architectural discourse.
- have knowledge regarding the fundamental scientific and theoretical argumentation and know about the essential methods of scientific research, academic work and critical architectural analyses.
- have developed an understanding for the design relevance of theories. By confronting and dealing with architecture-specific fields of discourse they are able to understand architecture theory as the basis for socially responsible planning, design, administrative or analytical tasks.

#### Module grade calculation

The module grade is the grade of the written exam.

#### Prerequisites

none

#### Content

In the modules "Architecture Theory 1" and "Architecture Theory 2" interdisciplinary architectural models of thought are analyzed, put into historic contexts and theoretically reflected on. By confronting various terms and definitions such as «Function, use, comfort», «Perception, atmosphere, staging», «Myth nature – construction, environment, resource», «Design tools and instruments of awareness» and «Logistic landscapes. Infrastructure, power and global availability» basic questions as to the relationship of object and theory in architecture are brought up and discussed. Special attention is given to political thought in general as well as current social trends. Both modules are conceived as consecutive and interrelated modules.

#### Annotation

A part of the orientation exam. If necessary with excursion.

#### Workload

Class attendance: Lectures 60 h  
Independent study: preparing/follow-up work, exam preparation 60 h
Module: Theory of Architecture 2 [M-ARCH-103562]

Responsible: Prof. Dr Georg Vrachliotis
Organisation: KIT Department of Architecture
Part of: Theoretical and Historical Basics

Credits: 4
Recurrence: every 2. semester, WS
Duration: 1 term
Language: German
Level: 3
Version: 2

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Competence Certificate
Written exam taking 90 minutes on the contents of the lecture. Requirement for the exam application is having passed the completed coursework "Architecture Theory 1 - Tutorial". This consists of the weekly compilation of written position papers on the respective lecture topics of approx. half an A4 page. The minimum number of position papers that have to be handed in will be made public at the start of the university semester (approx. half of the number of lectures).

Competence Goal
The students:

- can deal with the most important basic terminology and current architectural theories on the topics of architecture and urbanism. In addition to this, they have gained in-depth knowledge on the social, technological, media-related and cultural conditions of architectural practice.
- can differentiate, analyze and formulate complex architectural concepts in their respective cultural, historical, social and political contexts as well as being able to do this for their significance with a view to the current architectural discourse.
- have developed an in-depth and differentiated understanding for the relevance of theory for the architectural design project.
- are, in addition, capable of arguing in a scientific-theoretical manner and in applying the basic methods of scientific research and academic work as well as critical architecture analysis.

Module grade calculation
The module grade is the grade of the written exam.

Prerequisites
none

Content
In the modules "Architecture Theory 1" and "Architecture Theory 2" interdisciplinary architectural models of thought are analyzed, put into historic contexts and theoretically reflected on. By confronting various terms and definitions such as "Function, use, comfort", "Perception, atmosphere, staging", "Myth - nature - construction, environment, resource", "Design tools and instruments of awareness" and "Logistic landscapes. Infrastructure, power and global availability" basic questions as to the relationship of object and theory in architecture are brought up and discussed. Special attention is given to political thought in general as well as current social trends. Both modules are conceived as consecutive and interrelated modules.

Recommendation
Successful completion of the module "Theory of Architecture 1"

Workload
Class attendance: Lectures 60 h
Independent study: preparing/follow-up work, exam preparation 60 h

Organisation: KIT Department of Architecture
Part of: Urban- and Landscape Planning

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Mandatory

| T-ARCH-107310 | Urban Developent and Construction Planning Law | 4 CR | Menzel |

Competence Certificate
Other examination requirements consisting of a written exam lasting 120 minutes and two exercises.

Competence Goal
The students:

- can differentiate between the formal and informal instruments or urban and regional planning.
- can apply the planning tools used for managing the type and scale of building usage.
- know the framework conditions for designing street and public spaces / spaced-out areas.
- understand the structure and contents of legal regulations (spatial planning laws, building planning and general building laws) and are able to read the corresponding plans and assess the admissibility of planned proposals or projects.
- know the legal stipulations on accessibility, fire protection, etc.

Module grade calculation
The module grade is the grade of the other examination requirements.

Prerequisites
none

Content
The tools of the trade for working on projects are in the foreground: historical, technical, legal and academic facts are presented in accordance with their influence on design-related decisions. In tutorials the learnings are practically applied. Basic knowledge on public building planning and building laws (federal as well as state regulations) is taught. The methods of the application of laws is also learned (e.g. reading spatial plans, zoning and land usage / development plans).

Workload
Class attendance: Lectures, tutorials 30 h
Independent study: preparing/follow-up work, exam preparation, project work 90 h
### 3.55 Module: Urban Development-, Building- or Art History 1 [M-ARCH-103574]

**Responsible:** Prof. Dr. Oliver Jehle  
Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture  
**Part of:** Urban- and Landscape Planning

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**Mandatory**

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<tr>
<td>T-ARCH-107311</td>
<td>Urban Development-, Building- or Art History 1</td>
<td>4 CR</td>
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**Competence Certificate**

Written exam lasting 120 minutes on the contents of the respective lectures one has attended.

**Competence Goal**

The students:

- have gained knowledge on the history of Urban Development.
- are capable of recording and analyzing the relationships between historical and current topics of urban development as a solid basis for planning competencies.
- have an awareness of the historicism of architecture, knowledge on the conditions of its evolvement and the historical contexts as well as basic knowledge on the principal architectural buildings of each era, all based on the latest, up-to-date research.
- gain knowledge on the evolvement and development conditions of works of art and their historical contexts as well as basic knowledge on the major works of art of the late Middle Ages or the Baroque and Rococo period or the 20th century, all based on the latest, up-to-date research.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

Lecture History of Urban Development 1: Lecture series on the history of urban development from the beginning up to the 18th century.

Lecture History of Buildings 1: History of buildings from the beginning up to the 18th century.

Lecture History of Art: Art history from the late Middle Ages or the Baroque and Rococo period or the 20th century.


**Recommendation**

Successful completion of the module "History of Buildings 1 and 2".

**Annotation**

The lecture History of Urban Development 1 is mandatory; one of the two lectures "Lecture History of Buildings 1" or "Lecture History of Art" can be taken in addition.

**Workload**

Class attendance: Lectures 60 h  
Independent study: preparing/follow-up work, exam preparation 60 h
3.56 Module: Urban Development-, Building- or Art History 2 [M-ARCH-103575]

**Responsible:** Prof. Dr. Oliver Jehle  
Prof. Dr.-Ing. Joaquin Medina Warmburg

**Organisation:** KIT Department of Architecture  
**Part of:** Urban- and Landscape Planning

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**Mandatory**

| T-ARCH-107312 | Urban Development-, Building- or Art History 2 | 4 CR | Jehle, Medina Warmburg |

**Competence Certificate**

Written exam lasting 120 minutes on the contents of the respective lectures one has attended.

**Competence Goal**

The students:

- have gained knowledge on the history of Urban Development.
- are capable of recording and analyzing the relationships between historical and current topics of urban development as a solid basis for planning competencies.
- have an awareness of the historicism of architecture, knowledge on the conditions of its evolvement and the historical contexts as well as basic knowledge on the principal architectural buildings of each era, all based on the latest, up-to-date research.
- have gained knowledge of the evolutionary and developmental conditions of works of art and their historic contexts as well as basic knowledge of the major art-historical works of the early Middle Ages or the Renaissance or the 19th century all based on the latest, up-to-date research.

**Module grade calculation**

The module grade is the grade of the written exam.

**Prerequisites**

none

**Content**

Lecture History of Urban Development 2: Lecture series on the history of urban development of the 19th and 20th century.  
Lecture History of Art: Art history from the early Middle Ages or the Renaissance or the 19th century.  

**Recommendation**

Successful completion of the module "Urban Development-, Building- or Art History 1".

**Annotation**

The lecture History of Urban Development 2 is mandatory; one of the two lectures "Lecture History of Buildings 2" or "Lecture History of Art" can be taken in addition.

**Workload**

Class attendance: Lectures, tutorials 60 h  
Independent study: preparing/follow-up work, exam preparation 60 h
Module: Visualization Methods [M-ARCH-103580]

**Mandatory**

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**Competence Certificate**

Other examination requirements consisting of a term paper.

**Competence Goal**

The students:

- are able to select suitable visualization techniques for specific questions dealing with an architectural design draft and with this they can further develop independent solutions.

**Module grade calculation**

The module grade is the grade of the other examination requirements.

**Prerequisites**

none

**Content**

Visualization is understood to be a tool for design editing and idea development and is implemented from the early stages of an architectural design onwards. What technology you use depends on the question or task that you are working on. All thinkable visualization forms are taken into account, going from animation to model construction and storyboards all the way to drawings, diagrams and collages.

**Workload**

In-class time: Seminar 10 h
Self-study components: project work 110 h
**4 Courses**

### 4.1 Course: Advanced Topic of Bachelor Thesis [T-ARCH-107688]

**Responsible:** Prof. Marc Frohn  
Prof. Simon Hartmann  
Prof. Meinrad Morger  
Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103576 - Advanced Topic of Bachelor Thesis

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<td>Lecture / Practice (VÜ)</td>
<td>Frohn, Wetzel, Panzer</td>
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<td>SS 2019</td>
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<td>Advanced Topic of Bachelor Thesis (Morger)</td>
<td>Project (PRO)</td>
<td>Morger, Kunkel, Schilling, Zaparta</td>
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**Competence Certificate**

Completed coursework consisting working on the "Specialization Bachelor Thesis" usually, as a rule, takes place individually or in groups of two; there are regular supervisory and correction sessions. The produced results in the form of drawings, models, texts and lectures are presented and assessed within the framework of presentations or workshops during one's studies.

**Annotation**

Only one of the four courses can be booked, in each case by the examiner at whom the Bachelor's thesis is also completed.
4.2 Course: Advanced Topic of Bachelor Thesis - Portfolio [T-ARCH-107690]

**Responsible:** Prof. Marc Frohn  
Prof. Simon Hartmann  
Prof. Meinrad Morger  
Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103576 - Advanced Topic of Bachelor Thesis

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**Competence Certificate**
Completed coursework consisting of a portfolio to be created by the students individually and without any supervision. The result is handed in as a physical portfolio. The portfolio is assessed as it relates to completeness, the plausibility and comprehensibility of the presented projects, the graphical and design-related quality as well as the technically skilled quality.
4.3 Course: Architectural Geometry and Digital Form Design 1 [T-ARCH-107305]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103568 - Architectural Geometry and Digital Form Design 1

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**Competence Certificate**  
Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

**Prerequisites**  
none
4.4 Course: Architectural Geometry and Digital Form Design 2 [T-ARCH-107306]

**Responsible:** Udo Beyer

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103569 - Architectural Geometry and Digital Form Design 2

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**Competence Certificate**

Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

**Prerequisites**
none
4.5 Course: Architectural Geometry and Digital Form Design 3 [T-ARCH-107307]

Responsible: Udo Beyer
Organisation: KIT Department of Architecture

Part of: M-ARCH-103570 - Architectural Geometry and Digital Form Design 3

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</table>

Competence Certificate
Other examination requirements consisting of a drawing-based term paper and the successful participation in the tutorials related to the courses of the module (tutorial certificates).

Prerequisites
none
### 4.6 Course: Architectural Theory Research Topics [T-ARCH-107325]

- **Responsible:** Prof. Dr Georg Vrachliotis
- **Organisation:** KIT Department of Architecture
- **Part of:** M-ARCH-103585 - Architectural Theory Research Topics

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**Competence Certificate**
Other examination requirements consisting of actively participating in the seminar sessions (oral and written discussion contributions as well as presentations) as well as a study work project respectively one's own independent research work whose scope and form is dependent on the respective task assigned.

**Prerequisites**
none
4.7 Course: Artistic and Sculptural Design [T-ARCH-107304]

**Responsible:** Prof. Stephen Craig  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103567 - Artistic and Sculptural Design

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**Competence Certificate**

Other examination requirements consisting of works that are undertaken during the semester in the tutorials as well as handing in the works (workbook of the lecture series, sketching book and the complete folder of drawings) at the end of the semester.

**Prerequisites**

none
4.8 Course: Bachelor Thesis [T-ARCH-107248]

**Responsible:** Prof. Marc Frohn  
Prof. Simon Hartmann  
Prof. Meinrad Morger  
Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103546 - Module Bachelor Thesis

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**Competence Certificate**
The bachelor's thesis is comprised of the architectural design assessments and examinations that a student undertakes during the semester. Working on the design task takes place on an individual basis and regular supervisory phases respectively corrective measures take place. The progress monitoring takes place during one's studies within the framework of one to two intermediate milestone presentations and one final one. Here the worked out results are presented in the form of drawings, models, texts and presentations and these are then graded. The duration of each presentation is approx. 20 minutes per person.

**Prerequisites**
none

**Final Thesis**
This course represents a final thesis. The following periods have been supplied:

- **Submission deadline** 3 months  
- **Maximum extension period** 1 months  
- **Correction period** 6 weeks

This thesis requires confirmation by the examination office.
4.9 Course: Basic Course in the Study Workshop Modell [T-ARCH-107342]

**Responsible:** Willy Abraham
Andreas Heil
Anita Knipper
Manfred Neubig

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103602 - Key Qualifications

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**Modeled Conditions**
The following conditions have to be fulfilled:

1. The course T-ARCH-107340 - Workshop Introduction must have been passed.
## 4.10 Course: Basic Course in the Study Workshop Photography [T-ARCH-107341]

**Responsible:** Bernd Seeland  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103602 - Key Qualifications

**Type**  
Completed coursework  
**Credits**  
4  
**Recurrence**  
Each term  
**Version**  
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### Modeled Conditions

The following conditions have to be fulfilled:

1. The course T-ARCH-107340 - Workshop Introduction must have been passed.
4.11 Course: Basics of Building Construction [T-ARCH-107291]

**Responsible:** Thomas Haug  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103554 - Basics of Building Construction

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**Competence Certificate**  
Other examination requirements consisting of the constructive, semester-accompanying work on the design project in the module "Studio Material". Working on the task is undertaken in groups of two and there is supervision and corrections made on a regular basis. The progress monitoring occurs during one’s studies in the framework of up to two intermediate and one final presentation together with the presentation in the Studio Material. There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation length of the building construction-related composition is approx. 5 minutes per group.

**Prerequisites**  
none
4.12 Course: Basics of Design Theory [T-ARCH-107303]

**Responsible:** Prof. Marc Frohn

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103566 - Basics of Design Theory

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**Competence Certificate**

Other examination requirements consisting of two parts: In the framework of a written exam the important contents of the topics dealt with in the lecture as well as the accompanying texts and drawings made available will be examined. The duration of the written exam is approx. 150 minutes. Working on the accompanying exercise usually takes place, as a rule, in groups of four to five. There are regular supervision and correction sessions. The progress monitoring of the tutorial takes place within the framework of a final presentation. Here the worked out results are presented and evaluated in the form of drawings, models and presentations. The duration of the presentation is approx. 15 minutes per group.

**Prerequisites**

none
### 4.13 Course: Basics of Fire Protection [T-ARCH-110401]

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**Competence Certificate**  
Oral exam of 15 minutes.

**Prerequisites**  
none
4.14 Course: Basics of Lighting Technology [T-ARCH-110403]

**Responsible:** Prof. Andreas Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103592 - Selected Topics of Building Physics

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**Competence Certificate**

Oral exam of 15 minutes.

**Prerequisites**

none

**Responsible:** Prof. Andreas Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103592 - Selected Topics of Building Physics

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**Competence Certificate**

Oral exam of 15 minutes.

**Prerequisites**

none
4.16 Course: Basics of Urban Planning - Practical Course [T-ARCH-109964]

**Responsible:** Prof. Henri Bava  
Prof. Dr.-Ing. Barbara Engel

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103571 - Basics of Urban Planning

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<th>Bava, Engel, Reuß, Brezovska, Baek, Abromeit</th>
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**Competence Certificate**

Completed coursework consisting of several tutorials on the contents of the lecture that one has to undertake during the semester.

**Prerequisites**

none
**4.17 Course: Basics Sound Insulation [T-ARCH-110400]**

**Responsible:** Prof. Andreas Wagner  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103592 - Selected Topics of Building Physics

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**Events**

| WS 19/20 | 1720961 | Basics Sound Insulation | 2 SWS | Lecture (V) | Wagner |

**Competence Certificate**

Oral exam of 15 minutes.

**Prerequisites**

none
### 4.18 Course: Basis Course Photogrammetry [T-BGU-107444]

**Responsible:** Dr.-Ing. Thomas Vögtle  
**Organisation:** KIT Department of Civil Engineering, Geo- and Environmental Sciences  
**Part of:** M-BGU-104004 - Basis Course Photogrammetry

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**Competence Certificate**  
Other examination requirements consisting of a graded project work (drawing/constructive) which consists of a worked-out paper on one of the practical exercises.

**Prerequisites**  
none
4.19 Course: Building Construction [T-ARCH-107294]

**Responsible:** Prof. Ludwig Wappner
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103557 - Building Construction

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**Competence Certificate**

Other examination requirements consisting of the constructive, semester-accompanying work on the design project in the module "Studio Material". Working on the task is undertaken in groups of two and there is supervision and corrections made on a regular basis. The progress monitoring occurs during one’s studies in the framework of up to two intermediate and one final presentation together with the presentation in the Studio Material. There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation length of the building construction-related composition is approx. 5 minutes per group.

**Prerequisites**

none
4.20 Course: Building History 1 [T-ARCH-107300]

Responsible: Prof. Dr.-Ing. Joaquín Medina Warmburg
Organisation: KIT Department of Architecture

Part of: M-ARCH-103563 - Building History 1

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Competence Certificate

Written exam taking 60 minutes on the contents of the lecture.
4.21 Course: Building History and Building Survey [T-ARCH-107301]

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103564 - Building History 2

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**Competence Certificate**

Other examination requirements consisting of a written exam taking 60 minutes on the lecture contents and the results of the preparatory exercise and the tutorial Structural Recording (group work) in form of plans that portray the inspected object.

**Prerequisites**

none
4.22 Course: Building Materials Science [T-ARCH-107290]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103553 - Building Materials Science

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**Competence Certificate**

Other examination requirement that consists of handing in a written materials research paper in the specified format. All relevant information as well as the information presented in the lecture with regard to a chosen field of materials knowledge which was gone into in detail during tutorials as well is part of this progress monitoring. Apart from the written work fitting material samples are part of the work that has to be handed in.

**Prerequisites**

none
4.23 Course: Building Physics [T-ARCH-107293]

**Responsible:** Prof. Andreas Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103556 - Building Physics

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**Competence Certificate**

Other examination requirements consisting of working on tutorial-related tasks during the course of the semester as well as attending a colloquium on this. The colloquium takes place as groups; the time frame depends on the number of people in a group (15 minutes/person). The colloquium includes – based on the worked on task handout sheets that have to be brought along – the oral examination of the topics and their foci listed in the task sheet given which are closely related to the lecture being held.

**Prerequisites**

none
4.24 Course: Building Services [T-ARCH-107296]

**Responsible:** Prof. Andreas Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103559 - Building Services

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**Competence Certificate**

Other examination requirements consisting of working on tutorial-related tasks during the course of the semester as well as attending a colloquium on this. The colloquium takes place as groups; the time frame depends on the number of people in a group (15 minutes/person). The colloquium includes – based on the worked on task handout sheets that have to be brought along – the oral examination of the topics and their foci listed in the task sheet given which are closely related to the lecture being held.

**Prerequisites**

none
4.25 Course: Building Survey [T-ARCH-107337]

Responsible: Prof. Dr.-Ing. Joaquín Medina Warmburg
Organisation: KIT Department of Architecture
Part of: M-ARCH-103596 - Building Survey

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Competence Certificate
Other examination requirements consisting of the measurements of a building plus the creation of a planning set, its drawn, graphical drafting and preparation as well as the oral and written/drawn presentation of the recorded observations on the history of its construction and usage during a final colloquium/presentation.

Prerequisites
none
4.26 Course: Communication of Architecture and Scientific Methodology [T-ARCH-107302]

**Responsible:** Prof. Dr. Riklef Rambow  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103565 - Communication of Architecture and Scientific Methodology

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| Events |  
|--------|--------|
| SS 2019 | 1710450 | Introduction to the Communication of Architecture | 2 SWS | Lecture (V) | Rambow |

| SS 2019 | 1710451 | Scientific Methods for Architecture | 2 SWS | Lecture (V) | Rambow |

**Competence Certificate**  
Written exam taking 90 minutes on the contents of the lecture.
4.27 Course: Construction Economics and Law for Architects [T-ARCH-107297]

**Responsible:** Kai Fischer  
Dr. Eberhardt Meiringer

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103560 - Construction Economics and Law for Architects

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**Competence Certificate**

Other examination requirements consisting of a written exam taking all-in-all 120 minutes on the lecture contents Construction Economics and Architectural Law as well as the construction-economical composition of the draft project in the module "Studio Order", which is to be worked on and produced during the semester. Working on the design project takes place in the same groups as in the module "Studio Order". The result of the worked out design is a property profile.

**Prerequisites**

none
4.28 Course: Design in Studio Context [T-ARCH-109961]

**Responsible:** Prof. Henri Bava  
Prof. Dr.-Ing. Barbara Engel

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103550 - Studio Context

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**Competence Certificate**

Other examination requirements consisting of design work produced during the semester. Working on the design task takes place in groups of four, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 20 minutes per group.

**Prerequisites**

none
4.29 Course: Design in Studio Material [T-ARCH-109960]

**Responsible:** Prof. Ludwig Wappner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103549 - Studio Material

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**Competence Certificate**

Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

**Prerequisites**

none
# 4.30 Course: Design in Studio Space [T-ARCH-109958]

**Responsible:** Prof. Marc Frohn  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103547 - Studio Space

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**Competence Certificate**  
Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

**Prerequisites**  
none
### 4.31 Course: Design in Studio Structure [T-ARCH-109959]

**Responsible:** Prof. Ludwig Wappner  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103548 - Studio Structure

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**Competence Certificate**  
Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place in groups of two, there are regular supervisory meetings respectively corrective inputs that take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations. The time frame for the presentation is approx. 15 minutes per group.

**Prerequisites**  
none
### 4.32 Course: Design in Studio System [T-ARCH-109962]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103551 - Studio System

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#### Events

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<td>WS 19/20</td>
<td>1731052</td>
<td>Design in Studio System Neppl: It takes a village... - An experiment on the architecture of new commons</td>
<td>11 SWS</td>
<td>Project (PRO)</td>
<td>Neppl, Joa, Stippich, Pfeifer, Wagner</td>
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<td>WS 19/20</td>
<td>1720611</td>
<td>Design in Studio System Hebel: In between, on top and aside</td>
<td>11 SWS</td>
<td>Project (PRO)</td>
<td>Hebel, Lenz, Rausch, Pfeifer, Wagner</td>
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#### Competence Certificate

Other examination requirements consisting of architectural design work produced during the semester. Working on the design task takes place individually or in groups; regular supervision respectively corrective sessions take place. The progress monitoring takes place during one's studies within the frame of up to two intermediate and one final presentation. There the worked out results are presented and evaluated in the form of drawings, models, texts and presentations.

#### Prerequisites

none
4.33 Course: Fundamentals of Town Planning [T-ARCH-106581]

**Responsible:** Prof. Henri Bava
Prof. Dr.-Ing. Barbara Engel

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103571 - Basics of Urban Planning

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**Events**

| SS 2019 | 1731203 | Basics of Urban Planning | 4 SWS | Lecture (V) | Bava, Engel, Reuß Brezovska, Baek, Abromeit |

**Competence Certificate**
Written exam lasting 90 minutes on the contents of the lecture.

**Prerequisites**
Requirement for the exam application is having passed the completed coursework "Basics of Urban Planning - Practical Course".

**Modeled Conditions**
The following conditions have to be fulfilled:

1. The course T-ARCH-109964 - Basics of Urban Planning - Practical Course must have been passed.
4.34 Course: In-depth Surveying for Architects [T-BGU-107443]

**Responsible:** Dr.-Ing. Manfred Juretzko

**Organisation:** KIT Department of Civil Engineering, Geo- and Environmental Sciences

**Part of:** M-BGU-104002 - In-depth Surveying for Architects

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<th>Lecture / Practice (VU)</th>
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<td>In-depth surveying for Architects</td>
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**Competence Certificate**
Other examination requirements that are made up of the following parts: 3 prepared calculation exercises, participating in 3 practical tutorials, the (drawn) worked out paper on one of the practical exercises as well as producing a (fictional) layout plan for the building planning application.

**Prerequisites**
none
4.35 Course: Internship [T-ARCH-107703]

**Responsible:** Studiendekan/in Architektur

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103602 - Key Qualifications

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**Competence Certificate**

Internship report having at least 3 pages is to be produced. This should be handed in to the Internship Office of the faculty and needs to include a certification by the company worked at, specifying the contents and the time period of the internship.

**Prerequisites**

none
4.36 Course: Key Qualifications 1 [T-ARCH-107339]

Organisation: KIT Department of Architecture
Part of: M-ARCH-103602 - Key Qualifications

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Competence Certificate
The progress monitoring takes place in the form of completed coursework that varies type-wise and scope-wise, depending upon the course taken.

Prerequisites
none
4.37 Course: Key Qualifications 3 [T-ARCH-107700]

**Organisation:**  KIT Department of Architecture  
**Part of:**  M-ARCH-103602 - Key Qualifications

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**4.38 Course: Key Qualifications 5 [T-ARCH-108263]**

**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103602 - Key Qualifications

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4.39 Course: Key Qualifications at the HoC, ZAK or Sprachenzentrum [T-ARCH-110592]

**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103602 - Key Qualifications

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**Competence Certificate**
The progress monitoring takes place in the form of completed coursework that varies type-wise and scope-wise, depending upon the course taken.

**Prerequisites**
none
4.40 Course: Methodicial and Technical Planning Tools [T-ARCH-107329]

**Responsible:** Prof. Dr.-Ing. Petra von Both

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103589 - Methodicial and Technical Planning Tools

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<td>Methodical and technical planning aids: System Analysis and function-based design</td>
<td>2 SWS</td>
<td>von Both</td>
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**Competence Certificate**
Other examination requirements consisting of a written/planned composition and a 15-minute presentation with a discussion of the results.

**Prerequisites**
none
4.41 Course: Principles of Building Studies and Design [T-ARCH-107309]

**Responsible:** Prof. Meinrad Morger

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103572 - Principles of Building Studies and Design

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<td>SS 2019</td>
<td><strong>Principles of Building Studies and Design</strong></td>
<td>2</td>
<td>Practice (Ü)</td>
<td>Morger, Kunkel</td>
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**Competence Certificate**

Written exam lasting approx. 60 minutes on the contents of the lecture.

**Prerequisites**

Requirement for the exam application is having passed the completed coursework "Basics of Building Theory – Practical Course".

**Modeled Conditions**

The following conditions have to be fulfilled:

1. The course T-ARCH-109233 - Principles of Building Studies and Design - Practical Course must have been passed.
4.42 Course: Principles of Building Studies and Design - Practical Course [T-ARCH-109233]

**Responsible:** Prof. Meinrad Morger

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103572 - Principles of Building Studies and Design

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<th>2 SWS</th>
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<th>Morger, Kunkel</th>
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**Competence Certificate**
The completed coursework consists of several tutorials connected to the lecture contents which need to be taken during the semester.

**Prerequisites**
none
### 4.43 Course: Selected Topics of Architectural Theory [T-ARCH-107324]

**Responsible:** Prof. Dr. Georg Vrachliotis  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103584 - Selected Topics of Architectural Theory

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<td>Vrachliotis, Gantner, Le Gerrette</td>
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<td>WS 19/20</td>
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<td>Selected Topics of Architectural Theory: Architecture and Curatorial Research</td>
<td>2 SWS</td>
<td>Seminar (S)</td>
<td>Vrachliotis, Knoop</td>
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**Competence Certificate**
Other examination requirements consisting of actively participating in the seminar sessions (oral and written discussion contributions as well as presentations) as well as a study work project whose scope and form is dependent on the respective task assigned.

**Prerequisites**
none
4.44 Course: Selected Topics of Architecture, Furniture and Design [T-ARCH-107321]

**Responsible:** Alex Dill

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103581 - Selected Topics of Architecture, Furniture and Design

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**Competence Certificate**

Other examination requirements consisting of an oral presentation lasting 30 minutes with a follow-up academic discussion and a tutorial as well as the active participation in the mandatory excursion program.

**Prerequisites**

none
**4.45 Course: Selected Topics of Art History [T-ARCH-107335]**

**Responsible:** Prof. Dr. Oliver Jehle  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103594 - Selected Topics of Art History

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| SS 2019 1741312 | Selected Topics of Art History: Erwin Panofsky. Selected Writings | 2 SWS | Seminar (S) | Papenbrock  
| SS 2019 1741314 | Selected Topics of Art History: Anti-Photographers, Photographic Activities, and the Photo-Boom: Art Using Photography since the 1960s | 2 SWS | Seminar (S) | Filser  
| SS 2019 1741315 | Selected Topics of Art History: Techniques of naturalness | 2 SWS | Seminar (S) | Jehle  
| SS 2019 1741316 | Selected Topics of Art History: Movement in Depictions after Étienne-Jules Marey and Eadweard Muybridge | 2 SWS | Seminar (S) | Hinterwaldner  
| WS 19/20 1741319 | Selected Topics of Art History: Art in "Second Life" - a publication project | 2 SWS | Seminar (S) | Hinterwaldner  
| WS 19/20 1741320 | Selected Topic of Art History: New Art History | 2 SWS | Seminar (S) | Papenbrock

**Competence Certificate**
Other examination requirements consisting of an oral test (qualified discussion contributions, oral presentation or an oral exam lasting for about 15 minutes) and a written paper of about 15 pages.

**Prerequisites**
none
Course: Selected Topics of Building Construction Analysis [T-ARCH-107328]

**Responsible:** Thomas Haug  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103588 - Selected Topics of Building Construction Analysis

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### Events

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**Competence Certificate**
Other examination requirements consisting of a term paper with a written and a drawing part in accordance with the layout requirements, 6-10 pages DIN B 4.

**Prerequisites**
none
**Course: Selected Topics of Building History [T-ARCH-107336]**

**Responsible:** Prof. Dr.-Ing. Joaquín Medina Warmburg  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103595 - Selected Topics of Building History

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<td>Ausgewählte Gebiete der Baugeschichte: Oikos. Eine Umweltgeschichte der Küche Medina Warmburg</td>
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<td>SS 2019 1741363</td>
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**Competence Certificate**

Other examination requirements consisting of an oral presentation of about 30 minutes as well as the written worked-out paper on this topic. There are certain courses where the examination requirement is project work consisting of a drawing of the given task.

**Prerequisites**

none
Course: Selected Topics of Building Technology [T-ARCH-107332]

**Responsible:** Prof. Dr.-Ing. Rosemarie Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103591 - Selected Topics of Building Technology

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<td>Seminar (S)</td>
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<td>WS 19/20</td>
<td>Selected Topics of Building Technology: clay-brick-concrete</td>
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<td>Lecture / Practice (VÜ)</td>
<td>Wagner, Sander</td>
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**Competence Certificate**

Other examination requirements consisting of a presentation of the design in plans, building a model to a large scale and a written worked-out paper on the practical tutorials; in this a relationship to the design task must be presented.

**Prerequisites**

none
4.49 Course: Selected Topics of Building Technology [T-ARCH-107327]

**Responsible:**  
Thomas Haug  
Prof.Dipl.-Ing. Dirk Hebel  
Prof. Matthias Pfeifer  
Prof. Renzo Vallebuona  
Prof. Dr.-Ing. Petra von Both  
Prof. Andreas Wagner  
Prof. Dr.-Ing. Rosemarie Wagner  
Prof. Ludwig Wappner

**Organisation:**  
KIT Department of Architecture

**Part of:**  
M-ARCH-103587 - Selected Topics of Building Technology

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**Competence Certificate**  
Other examination requirements consisting of a seminar paper in written and/or drawn form of maximum 20 pages and a presentation or an oral talk taking maximum 20 minutes.

**Prerequisites**  
none
### 4.50 Course: Selected Topics of Communication in Architecture [T-ARCH-107326]

**Responsible:** Prof. Dr. Riklef Rambow  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103586 - Selected Topics of Communication in Architecture

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<th>SWS</th>
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<th>Lecturer</th>
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<td>1710451</td>
<td>Selected Topics of Communication in Architecture: Architectural design presentation, coherent and convincing</td>
<td>2 SWS</td>
<td>Seminar (S)</td>
<td>Rambow</td>
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</table>

**Competence Certificate**

Other examination requirements consisting of a presentation/oral report taking 30 minutes and a written paper of max. 20 pages.

**Prerequisites**

none
4.51 Course: Selected Topics of Descriptive Geometry [T-ARCH-107318]

Responsible: Udo Beyer
Organisation: KIT Department of Architecture

Part of: M-ARCH-103578 - Selected Topics of Descriptive Geometry

<table>
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Competence Certificate
Other examination requirements consisting of a project documentation in the form of a composition of the contents of the lectures and tutorials or the seminar as an own project and presentation (duration approx. 10 minutes). This includes documentation (in the form of texts or plans/posters) of same.

Prerequisites
none
4.52 Course: Selected Topics of Drawing [T-ARCH-107319]

**Responsible:** Udo Beyer  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103579 - Selected Topics of Drawing

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<td>4</td>
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</table>

**Events**

| SS 2019 | 1710163 | Selected Topics of Drawing: Drawing Excursion Summer | 4 SWS | Excursion (EXK) | Beyer |

**Competence Certificate**

Other examination requirements consisting of the drawings made during the excursion.

**Prerequisites**

none
**Course: Selected Topics of Fine Art 1 [T-ARCH-107322]**

**Responsible:** Prof. Stephen Craig  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103582 - Selected Topics of Fine Art 1

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<tr>
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<td>WS 19/20</td>
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</table>

**Competence Certificate**

Other examination requirements consisting of handing in and presenting the semester works produced during the semester (scope, number and type vary according to the topic). Mandatory and a prerequisite is the regular participation in class.

**Prerequisites**

none
4.54 Course: Selected Topics of Fine Art 2 [T-ARCH-107323]

**Responsible:** Prof. Stephen Craig  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103583 - Selected Topics of Fine Art 2

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<td>Practice (Ü)</td>
<td>Craig, Schelble</td>
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**Competence Certificate**
Other examination requirements consisting of handing in and presenting the semester works produced during the semester (scope, number and type vary according to the topic). Mandatory and a prerequisite is the regular participation in class.

**Prerequisites**
none
4.55 Course: Selected Topics of Structural Design [T-ARCH-109243]

**Responsible:** Prof. Matthias Pfeifer
Prof. Dr.-Ing. Rosemarie Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-104513 - Selected Topics of Structural Design

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**Competence Certificate**
Other examination requirements consisting of seminar papers in written and/or drawn form encompassing a maximum of 20 pages and a presentation or an oral talk lasting a maximum of 20 minutes.

**Prerequisites**
none
Course: Selected Topics of Sustainability [T-ARCH-107426]

**Responsible:** Prof.Dipl.-Ing. Dirk Hebel

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103684 - Selected Topics of Sustainability

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**Selected Topics of Sustainability:** Local Material, Local Design, Local Built

**Prerequisites**

none

**Competence Certificate**

Other examination requirements consisting of a worked out, written paper of a self-chosen topic within the framework of the seminar, having coordinated this with the lecturer beforehand.
4.57 Course: Selected Topics of Urban Design [T-ARCH-107334]

**Responsible:**  Prof. Henri Bava  
Prof. Dr.-Ing. Barbara Engel  
Prof. Markus Neppl

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103593 - Selected Topics of Urban Design

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<td>Seminar (S)</td>
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</table>

**Competence Certificate**

Other examination requirements consisting of a term paper in written and/or drawn form to the scope of maximum 20 pages and a presentation or an oral talk of maximum 20 minutes duration.

**Prerequisites**

none
4.58 Course: Selected Topics of Urban Design - Workshop [T-ARCH-107697]

| Responsible          | Prof. Henri Bava  
|                      | Prof. Dr.-Ing. Barbara Engel  
|                      | Prof. Markus Neppl  
| Organisation         | KIT Department of Architecture  
| Part of              | M-ARCH-103811 - Selected Topics of Urban Design - Workshop  

| Type                | Examination of another type  
| Credits             | 4  
| Recurrence          | Irregular  
| Version             | 1  

**Competence Certificate**
Other examination requirements consisting of a term paper in written and/or drawn form to the scope of maximum 20 pages and a presentation or an oral talk of maximum 20 minutes duration.

**Prerequisites**
none
4.59 Course: Selectet Topics of Building Studies and Design [T-ARCH-107317]

**Responsible:** Alex Dill  
Prof. Marc Frohn  
Prof. Simon Hartmann  
Prof. Meinrad Morger

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103577 - Selectet Topics of Building Studies and Design

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**Competence Certificate**
Other examination requirements consist, as a rule, of seminar papers in written and/or drawn form to the scope of, as a rule, maximum 40 pages and a presentation or an oral presentation taking maximum 20 minutes as a whole.

**Prerequisites**
none
4.60 Course: Static and Strength of Materials [T-ARCH-107292]

**Responsible:** Prof. Dr.-Ing. Rosemarie Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103555 - Static and Strength of Materials

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<td>Materials</td>
<td>Wagner, Sum</td>
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**Competence Certificate**
Written exam taking 300 minutes.

**Prerequisites**
Requirement for the exam application is having passed the coursework "Statics and the Science of Material Strengths - Tutorial". This is made up of several semester-accompanying tutorials that are directly related to the lecture contents.

**Modeled Conditions**
The following conditions have to be fulfilled:

1. The course T-ARCH-109234 - Static and Strength of Materials - Practical Course must have been passed.
4.61 Course: Static and Strength of Materials - Practical Course [T-ARCH-109234]

**Responsible:** Prof. Dr.-Ing. Rosemarie Wagner

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103555 - Static and Strength of Materials

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**Events**

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<th>Practice (Ü)</th>
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<td>Practice (Ü)</td>
<td>Wagner, Sum</td>
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</table>

**Competence Certificate**
Completed Coursework made up of several semester-accompanying tutorials that are directly related to the lecture contents.

**Prerequisites**
none
4.62 Course: Structural Analysis [T-ARCH-107330]

**Responsible:** Prof. Matthias Pfeifer  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103590 - Structural Analysis

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### Events

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<td>4</td>
<td>Seminar (S)</td>
<td>Pfeifer, Lauterkorn, Özcan</td>
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</table>

**Competence Certificate**  
Other examination requirements consisting of the supporting structure analysis of an existing building that is drawn up during the semester, the presentation of the results in an oral talk of about 20 minutes duration and a written paper of maximum 20 pages. The work takes place in groups of two and regular supervision respectively corrections take place.

**Prerequisites**  
none
4.63 Course: Structural Design [T-ARCH-107295]

**Responsible:** Prof. Matthias Pfeifer

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103558 - Structural Design

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**Competence Certificate**
Written exam taking about 180 minutes on the contents of the lecture.

**Prerequisites**
Requirement for the exam application is having passed the completed coursework “Supporting Structure Design Composition of the Studio Design”.

**Modeled Conditions**
The following conditions have to be fulfilled:

1. The course T-ARCH-109235 - Structural Design - Practical Course must have been passed.
4.64 Course: Structural Design - Practical Course [T-ARCH-109235]

Responsible: Prof. Matthias Pfeifer
Organisation: KIT Department of Architecture

Part of: M-ARCH-103558 - Structural Design

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<tr>
<td>Completed coursework</td>
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</table>

Competence Certificate
Completed coursework consisting of the semester-accompanying structural design composition of the draft project in the module “Studio Material” which is to be worked on and produced during the semester. Working on the design project takes place in the same groups as in the module “Studio Material”. In the course of the semester up to three supervisions resp. corrections take place. This part of the progress monitoring occurs during one’s studies in the framework of up to two intermediate and one final presentation together with the presentation in the “Studio Material”. There the worked out results in the formats drawings, models, texts and presentations are portrayed and evaluated. The presentation duration of the supporting structure design composition is approx. 5 minutes per group.

Prerequisites
none
4.65 Course: Survey [T-BGU-108019]

**Responsible:** Dr.-Ing. Manfred Juretzko

**Organisation:** KIT Department of Civil Engineering, Geo- and Environmental Sciences

**Part of:** M-ARCH-103564 - Building History 2

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**Events**

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<td>Building Survey and Survey</td>
<td>3 SWS</td>
<td>Juretzko, Koch</td>
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</table>

**Competence Certificate**

The completed coursework Surveying consists of prepared calculation exercises and the handing-in of the worked out survey in the form of plans and tables.

**Prerequisites**

none
4.66 Course: Sustainability [T-ARCH-107289]

**Responsible:** Prof. Dipl.-Ing. Dirk Hebel  
**Organisation:** KIT Department of Architecture

**Type:** Examination of another type  
**Credits:** 4  
**Recurrence:** Each winter term  
**Version:** 1

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**Competence Certificate**  
Other examination requirement that consists of an oral discussion on the topics of the lecture.

**Prerequisites**  
none
4.67 Course: Theory of Architecture 1 [T-ARCH-107298]

**Responsible:** Prof. Dr Georg Vrachliotis

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103561 - Theory of Architecture 1

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**Competence Certificate**

Written exam taking 90 minutes on the contents of the lecture.

**Prerequisites**

Requirement for the exam application is having passed the completed coursework "Architecture Theory 1 - Tutorial".

**Modeled Conditions**

The following conditions have to be fulfilled:

1. The course T-ARCH-109236 - Theory of Architecture 1 - Practical Course must have been passed.
**4.68 Course: Theory of Architecture 1 - Practical Course [T-ARCH-109236]**

**Responsible:** Prof. Dr Georg Vrachliotis  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103561 - Theory of Architecture 1

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<td>4 SWS</td>
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**Competence Certificate**
Completed coursework consisting of the weekly compilation of written position papers on the respective lecture topics of approx. half an A4 page. The minimum number of position papers that have to be handed in will be made public at the start of the university semester (approx. half of the number of lectures).

**Prerequisites**
none
4.69 Course: Theory of Architecture 2 [T-ARCH-107299]

**Responsible:** Prof. Dr Georg Vrachliotis  
**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103562 - Theory of Architecture 2

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**Events**

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<th>Lecture (V)</th>
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**Competence Certificate**  
Written exam taking 90 minutes on the contents of the lecture.

**Prerequisites**  
Requirement for the exam application is having passed the completed coursework "Architecture Theory 1 - Tutorial".

**Modeled Conditions**  
The following conditions have to be fulfilled:

1. The course T-ARCH-109237 - Theory of Architecture 2 - Practical Course must have been passed.
4.70 Course: Theory of Architecture 2 - Practical Course [T-ARCH-109237]

**Responsible:** Prof. Dr Georg Vrachliotis

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103562 - Theory of Architecture 2

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**Events**

| SS 2019 | 1710402 | Theory of Architecture 2 | 4 SWS | Lecture (V) | Vrachliotis |

**Competence Certificate**

Completed Coursework consisting of the weekly compilation of written position papers on the respective lecture topics of approx. half an A4 page. The minimum number of position papers that have to be handed in will be made public at the start of the university semester (approx. half of the number of lectures).

**Prerequisites**

none
Course:  Urban Development and Construction Planning Law [T-ARCH-107310]

**Responsible:** apl. Prof. Dr. Jörg Menzel

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103573 - Urban Development and Construction Planning Law

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**Competence Certificate**

Other examination requirements consisting of a written exam lasting 120 minutes and two exercises.
### 4.72 Course: Urban Development-, Building- or Art History 1 [T-ARCH-107311]

**Responsible:** Prof. Dr. Oliver Jehle  
Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103574 - Urban Development-, Building- or Art History 1

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<td>Art-History: Modelling</td>
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<td>WS 19/20</td>
<td>1741353</td>
<td>Urban Development</td>
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<td>Lecture (V)</td>
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</table>

**Competence Certificate**

Written exam lasting 120 minutes on the contents of the respective lectures one has attended.

**Prerequisites**

none
4.73 Course: Urban Development-, Building- or Art History 2 [T-ARCH-107312]

**Responsible:** Prof. Dr. Oliver Jehle  
Prof. Dr.-Ing. Joaquín Medina Warmburg

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103575 - Urban Development-, Building- or Art History 2

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</table>

**Competence Certificate**

Written exam lasting 120 minutes on the contents of the respective lectures one has attended.

**Prerequisites**

none
**4.74 Course: Visit lecture series Bachelor [T-ARCH-109970]**

**Responsible:** Studiendekan/in Architektur  
**Organisation:** KIT Department of Architecture  
**Part of:** M-ARCH-103602 - Key Qualifications

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<td>Vrachiotis</td>
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<td>SS 2019  1800025</td>
<td>Gastvorträge der Kunstgeschichte</td>
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<td>Others (sonst.)</td>
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**Competence Certificate**
The progress monitoring of the partial completed coursework "Participation in Lecture Series" consists of the confirmation of having visited at least 15 lectures of the lecture series "Karlsruhe Architecture Lectures", "Lecture Series History of Art" or "Construction History Colloquium" of the KIT Department of Architecture.

**Prerequisites**
none
4.75 Course: Visualization Methods [T-ARCH-107320]

**Responsible:** Udo Beyer

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103580 - Visualization Methods

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**Competence Certificate**

Other examination requirements consisting of a term paper.
4.76 Course: Workshop Introduction [T-ARCH-107340]

**Responsible:** Willy Abraham  
Andreas Heil  
Anita Knipper  
Manfred Neubig

**Organisation:** KIT Department of Architecture

**Part of:** M-ARCH-103602 - Key Qualifications

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</table>

**Competence Certificate**  
Completed coursework consisting of the "Werkstattführerschein".

**Prerequisites**  
none
Studien- und Prüfungsordnung des Karlsruher Instituts für Technologie (KIT) für den Bachelorstudiengang Architektur
Studien- und Prüfungsordnung des Karlsruher Instituts für Technologie (KIT) für den Bachelorstudienengang Architektur


Der Präsident hat seine Zustimmung gemäß § 20 Absatz 2 Satz 1 KITG i.V.m. § 32 Absatz 3 Satz 1 LHG am 26. Juli 2016 erteilt.

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§ 5 Anmeldung und Zulassung zu den Modulprüfungen und Lehrveranstaltungen
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§ 6 a Erfolgskontrollen im Antwort-Wahl-Verfahren
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§ 17 Prüfungsausschuss
§ 18 Prüfende und Beisitzende
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III. Schlussbestimmungen
§ 23 Bescheinigung von Prüfungsleistungen
§ 24 Aberkennung des Bachelorgrades
§ 25 Einsicht in die Prüfungsakten
§ 26 Inkrafttreten, Übergangsvorschriften
Präambel

Das KIT hat sich im Rahmen der Umsetzung des Bolognaprozesses zum Aufbau eines europäischen Hochschulraumes zum Ziel gesetzt, dass am Abschluss des Studiums am KIT der Mastergrad stehen soll. Das KIT sieht daher die am KIT angebotenen konsekutiven Bachelor- und Masterstudiengänge als Gesamtkonzept mit konsekutivem Curriculum.

I. Allgemeine Bestimmungen

§ 1 Geltungsbereich
Diese Bachelorprüfungsordnung regelt Studienablauf, Prüfungen und den Abschluss des Studiums im Bachelorstudiengang Architektur am KIT.

§ 2 Ziel des Studiums, akademischer Grad
(1) Im Bachelorstudium sollen die wissenschaftlichen Grundlagen und die Methodenkompetenz der Architektur vermittelt werden. Ziel des Studiums ist die Fähigkeit, einen konsekutiven Masterstudiengang erfolgreich absolvieren zu können sowie das erworbene Wissen berufsfeldbezogen anwenden zu können.
(2) Aufgrund der bestandenen Bachelorprüfung wird der akademische Grad „Bachelor of Science (B.Sc.)“ für den Bachelorstudiengang Architektur verliehen.

§ 3 Regelstudienzeit, Studienaufbau, Leistungspunkte
(1) Die Regelstudienzeit beträgt sechs Semester.
(2) Das Lehrangebot des Studiengangs ist in Fächer, die Fächer sind in Module, die jeweiligen Module in Lehrveranstaltungen gegliedert. Die Fächer und ihr Umfang werden in § 20 festgelegt. Näheres beschreibt das Modulhandbuch.
(4) Der Umfang der für den erfolgreichen Abschluss des Studiums erforderlichen Studien- und Prüfungsleistungen wird in Leistungspunkten gemessen und beträgt insgesamt 180 Leistungspunkte.
(5) Lehrveranstaltungen können nach vorheriger Ankündigung auch in englischer Sprache angeboten werden, sofern es deutschsprachige Wahlmöglichkeiten gibt.

§ 4 Modulprüfungen, Studien- und Prüfungsleistungen
(2) Prüfungsleistungen sind:
   1. schriftliche Prüfungen,
2. mündliche Prüfungen oder
3. Prüfungsleistungen anderer Art.

(3) Studienleistungen sind schriftliche, mündliche oder praktische Leistungen, die von den Studierenden in der Regel lehrveranstaltungsbegleitend erbracht werden. Die Bachelorprüfung darf nicht mit einer Studienleistung abgeschlossen werden.

(4) Von den Modulprüfungen sollen mindestens 70% benotet sein.

(5) Bei sich ergänzenden Inhalten können die Modulprüfungen mehrerer Module durch eine auch modulübergreifende Prüfungsleistung (Absatz 2 Nr. 1 bis 3) ersetzt werden.

§ 5 Anmeldung und Zulassung zu den Modulprüfungen und Lehrveranstaltungen

(1) Um an den Modulprüfungen teilnehmen zu können, müssen sich die Studierenden online im Studierendenportal zu den jeweiligen Erfolgskontrollen anmelden. In Ausnahmefällen kann eine Anmeldung schriftlich im Studierendenservice oder in einer anderen, vom Studierendenservice autorisierten Einrichtung erfolgen. Für die Erfolgskontrollen können durch die Prüfenden Anmeldefristen festgelegt werden. Die Anmeldung der Bachelorarbeit ist im Modulhandbuch geregelt.


(3) Zu einer Erfolgskontrolle ist zuzulassen, wer
1. in den Bachelorstudiengang Architektur am KIT eingeschrieben ist; die Zulassung beurlaubter Studierender ist auf Prüfungsleistungen beschränkt; und
2. nachweist, dass er die im Modulhandbuch für die Zulassung zu einer Erfolgskontrolle festgelegten Voraussetzungen erfüllt und
3. nachweist, dass er in dem Bachelorstudiengang Architektur den Prüfungsanspruch nicht verloren hat.

(4) Nach Maßgabe von § 30 Abs. 5 LHG kann die Zulassung zu einzelnen Pflichtveranstaltungen beschränkt werden. Der/die Prüfende entscheidet über die Auswahl unter den Studierenden, die sich rechtzeitig bis zu dem von dem/der Prüfenden festgesetzten Termin angemeldet haben unter Berücksichtigung des Studienfortschritts dieser Studierenden und unter Beachtung von § 13 Abs. 1 Satz 1 und 2, sofern ein Abbau des Überhangs durch andere oder zusätzliche Veranstaltungen nicht möglich ist. Für den Fall gleichen Studienfortschritts sind durch die KIT-Fakultäten weitere Kriterien festzulegen. Das Ergebnis wird den Studierenden rechtzeitig bekannt gegeben.

(5) Die Zulassung ist abzulehnen, wenn die in Absatz 3 und 4 genannten Voraussetzungen nicht erfüllt sind.

§ 6 Durchführung von Erfolgskontrollen

(1) Erfolgskontrollen werden studienbegleitend, in der Regel im Verlauf der Vermittlung der Lehrinhalte der einzelnen Module oder zeitnah danach, durchgeführt.

(2) Die Art der Erfolgskontrolle (§ 4 Abs. 2 Nr. 1 bis 3, Abs. 3) wird von der/dem Prüfenden der betreffenden Lehrveranstaltung in Bezug auf die Lerninhalte der Lehrveranstaltung und die Lernziele des Moduls festgelegt. Die Art der Erfolgskontrolle, ihre Häufigkeit, Reihenfolge und Gewichtung sowie gegebenenfalls die Bildung der Modulnote müssen mindestens sechs Wochen vor Vorlesungsbeginn im Modulhandbuch bekannt gemacht werden. Im Einvernehmen von Prüfendem und Studierender bzw. Studierendem können die Art der Prüfungsleistung sowie die
Prüfungssprache auch nachträglich geändert werden; im ersten Fall ist jedoch § 4 Abs. 5 zu berücksichtigen. Bei der Prüfungsorganisation sind die Belange Studierender mit Behinderung oder chronischer Erkrankung gemäß § 13 Abs. 1 zu berücksichtigen. § 13 Abs. 1 Satz 3 und 4 gelten entsprechend.

(3) Bei unvertretbar hohem Prüfungsaufwand kann eine schriftlich durchzuführende Prüfungsleistung auch mündlich, oder eine mündlich durchzuführende Prüfungsleistung auch schriftlich abgenommen werden. Diese Änderung muss mindestens sechs Wochen vor der Prüfungsleistung bekannt gegeben werden.

(4) Bei Lehrveranstaltungen in englischer Sprache (§ 3 Abs. 6) können die entsprechenden Erfolgskontrollen in dieser Sprache abgenommen werden. § 6 Abs. 2 gilt entsprechend.

(5) **Schriftliche Prüfungen** (§ 4 Abs. 2 Nr. 1) sind in der Regel von einer/einem Prüfenden nach § 18 Abs. 2 oder 3 zu bewerten. Sofern eine Bewertung durch mehrere Prüfende erfolgt, ergibt sich die Note aus dem arithmetischen Mittel der Einzelbewertungen. Entspricht das arithmetische Mittel keiner der in § 7 Abs. 2 Satz 2 definierten Notenstufen, so ist auf die nächstliegende Notenstufe auf- oder abzurunden. Bei gleichem Abstand ist auf die nächstbessere Note abzurunden. Das Bewertungsverfahren soll sechs Wochen nicht überschreiten. Schriftliche Prüfungen dauern mindestens 60 und höchstens 300 Minuten.

(6) **Mündliche Prüfungen** (§ 4 Abs. 2 Nr. 2) sind von mehreren Prüfenden (Kollegialprüfung) oder von einer/einem Prüfenden in Gegenwart einer oder eines Beisitzenden als Gruppen- oder Einzelprüfungen abzunehmen und zu bewerten. Vor der Festsetzung der Note hört die/der Prüfende die anderen an der Kollegialprüfung mitwirkenden Prüfenden an. Mündliche Prüfungen dauern in der Regel mindestens 15 Minuten und maximal 60 Minuten pro Studierenden.

Die wesentlichen Gegenstände und Ergebnisse der **mündlichen Prüfung** sind in einem Protokoll festzuhalten. Das Ergebnis der Prüfung ist den Studierenden im Anschluss an die mündliche Prüfung bekannt zu geben.

Studierende, die sich in einem späteren Semester der gleichen Prüfung unterziehen wollen, werden entsprechend den räumlichen Verhältnissen und nach Zustimmung des Prüflings als Zuhörerinnen und Zuhörer bei mündlichen Prüfungen zugelassen. Die Zulassung erstreckt sich nicht auf die Beratung und Bekanntgabe der Prüfungsergebnisse.

(7) **Für Prüfungsleistungen anderer Art** (§ 4 Abs. 2 Nr. 3) sind angemessene Bearbeitungsfristen einzuräumen und Abgabetermine festzulegen. Dabei ist durch die Art der Aufgabenstellung und durch entsprechende Dokumentation sicherzustellen, dass die erbrachte Prüfungsleistung dem/der Studierenden zurechenbar ist. Die wesentlichen Gegenstände und Ergebnisse einer solchen Erfolgskontrolle sind in einem Protokoll festzuhalten.

Bei **mündlich durchgeführten Prüfungsleistungen anderer Art** muss neben der/dem Prüfenden ein/e Beisitzende/r anwesend sein, die/der zusätzlich zum/zur Prüfenden das Protokoll zeichnet.

**Schriftliche und/oder zeichnerische Arbeiten** im Rahmen einer **Prüfungsleistung anderer Art** haben dabei die folgende Erklärung zu tragen: „Ich versichere wahrheitsgemäß, die Arbeit selbstständig angefertigt, alle benutzten Hilfsmittel vollständig und genau angegeben und alles kenntlich gemacht zu haben, was aus Arbeiten anderer unverändert oder mit Abänderungen entnommen wurde.“ Trägt die Arbeit diese Erklärung nicht, wird sie nicht angenommen. Die wesentlichen Gegenstände und Ergebnisse der Erfolgskontrolle sind in einem Protokoll festzuhalten.

§ 6 a **Erfolgskontrollen im Antwort-Wahl-Verfahren**

Das Modulhandbuch regelt, ob und in welchem Umfang Erfolgskontrollen im Wege des **Antwort-Wahl-Verfahrens** abgelegt werden können.
§ 6 b Computergestützte Erfolgskontrollen


(2) Vor der computergestützten Erfolgskontrolle hat die/der Prüfende sicherzustellen, dass die elektronischen Daten eindeutig identifiziert und unverwechselbar und dauerhaft den Studierenden zugeordnet werden können. Der störungsfreie Verlauf einer computergestützten Erfolgskontrolle ist durch entsprechende technische und fachliche Betreuung zu gewährleisten. Alle Prüfungsaufgaben müssen während der gesamten Bearbeitungszeit zur Bearbeitung zur Verfügung stehen.

(3) Im Übrigen gelten für die Durchführung von computergestützten Erfolgskontrollen die §§ 6 bzw. 6 a.

§ 7 Bewertung von Studien- und Prüfungsleistungen

(1) Das Ergebnis einer Prüfungsleistung wird von den jeweiligen Prüfenden in Form einer Note festgesetzt.

(2) Folgende Noten sollen verwendet werden:

<table>
<thead>
<tr>
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<th>Bedeutung</th>
</tr>
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<tbody>
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<td>sehr gut (very good)</td>
<td>hervorragende Leistung, eine Leistung, die erheblich über den durchschnittlichen Anforderungen liegt,</td>
</tr>
<tr>
<td>gut (good)</td>
<td>eine Leistung, die durchschnittlichen Anforderungen entspricht,</td>
</tr>
<tr>
<td>befriedigend (satisfactory)</td>
<td>eine Leistung, die trotz ihrer Mängel noch den Anforderungen genügt,</td>
</tr>
<tr>
<td>ausreichend (sufficient)</td>
<td>eine Leistung, die trotz ihrer Mängel noch den Anforderungen genügt,</td>
</tr>
<tr>
<td>nicht ausreichend (failed)</td>
<td>eine Leistung, die wegen erheblicher Mängel nicht den Anforderungen genügt.</td>
</tr>
</tbody>
</table>

Zur differenzierten Bewertung einzelner Prüfungsleistungen sind nur folgende Noten zugelassen:

<table>
<thead>
<tr>
<th>Note</th>
<th>Bewertung</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,0; 1,3</td>
<td>sehr gut</td>
</tr>
<tr>
<td>1,7; 2,0; 2,3</td>
<td>gut</td>
</tr>
<tr>
<td>2,7; 3,0; 3,3</td>
<td>befriedigend</td>
</tr>
<tr>
<td>3,7; 4,0</td>
<td>ausreichend</td>
</tr>
<tr>
<td>5,0</td>
<td>nicht ausreichend</td>
</tr>
</tbody>
</table>

(3) Studienleistungen werden mit „bestanden“ oder mit „nicht bestanden“ gewertet.

(4) Bei der Bildung der gewichteten Durchschnitte der Modulnoten, der Fachnoten und der Gesamtnote wird nur die erste Dezimalstelle hinter dem Komma berücksichtigt; alle weiteren Stellen werden ohne Rundung gestrichen.

(5) Jedes Modul und jede Erfolgskontrolle darf in demselben Studiengang nur einmal gewertet werden.

(6) Eine Prüfungsleistung ist bestanden, wenn die Note mindestens „ausreichend“ (4,0) ist.

(8) Die Ergebnisse der Erfolgskontrollen sowie die erworbenen Leistungspunkte werden durch den Studierendenservice des KIT verwaltet.

(9) Die Noten der Module eines Faches gehen in die Fachnote mit einem Gewicht proportional zu den ausgewiesenen Leistungspunkten der Module ein.

(10) Die Gesamtnote der Bachelorprüfung, die Fachnoten und die Modulnoten lauten:

<table>
<thead>
<tr>
<th>Note</th>
<th>Leistungspunkte</th>
</tr>
</thead>
<tbody>
<tr>
<td>sehr gut</td>
<td>bis 1,5</td>
</tr>
<tr>
<td>gut</td>
<td>von 1,6 bis 2,5</td>
</tr>
<tr>
<td>befriedigend</td>
<td>von 2,6 bis 3,5</td>
</tr>
<tr>
<td>ausreichend</td>
<td>von 3,6 bis 4,0</td>
</tr>
</tbody>
</table>

§ 8 Orientierungsprüfungen, Verlust des Prüfungsanspruchs


(2) Wer die Orientierungsprüfungen einschließlich etwaiger Wiederholungen bis zum Ende des Prüfungszeitraums des dritten Fachsemesters nicht erfolgreich abgelegt hat, verliert den Prüfungsanspruch im Studiengang, es sei denn, dass die Fristüberschreitung nicht selbst zu vertreten ist; hierüber entscheidet der Prüfungsausschuss auf Antrag der oder des Studierenden. Eine zweite Wiederholung der Orientierungsprüfungen ist ausgeschlossen.

(3) Ist die Bachelorprüfung bis zum Ende des Prüfungszeitraums des neunten Fachsemesters einschließlich etwaiger Wiederholungen nicht vollständig abgelegt, so erlischt der Prüfungsanspruch im Studiengang Architektur, es sei denn, dass die Fristüberschreitung nicht selbst zu vertreten ist. Die Entscheidung über eine Fristverlängerung und über Ausnahmen von der Fristregelung trifft der Prüfungsausschuss unter Beachtung der in § 32 Abs. 6 LHG genannten Tätigkeiten auf Antrag des/der Studierenden. Der Antrag ist schriftlich in der Regel bis sechs Wochen vor Ablauf der in Satz 1 genannten Studienhöchstdauer zu stellen.

(4) Der Prüfungsanspruch geht auch verloren, wenn eine nach dieser Studien- und Prüfungsordnung erforderliche Studien- oder Prüfungsleistung endgültig nicht bestanden ist.

§ 9 Wiederholung von Erfolgskontrollen, endgültiges Nichtbestehen

(1) Studierende können eine nicht bestandene schriftliche Prüfung (§ 4 Absatz 2 Nr. 1) einmal wiederholen. Wird eine schriftliche Wiederholungsprüfung mit „nicht ausreichend“ (5,0) bewertet, so findet eine mündliche Nachprüfung im zeitlichen Zusammenhang mit dem Termin der nicht bestandenen Prüfung statt. In diesem Falle kann die Note dieser Prüfung nicht besser als „ausreichend“ (4,0) sein.

(2) Studierende können eine nicht bestandene mündliche Prüfung (§ 4 Absatz 2 Nr. 2) einmal wiederholen.

(3) Wiederholungsprüfungen nach Absatz 1 und 2 müssen in Inhalt, Umfang und Form (mündlich oder schriftlich) der ersten entsprechen. Ausnahmen kann der zuständige Prüfungsausschuss auf Antrag zulassen.

(4) Prüfungsleistungen anderer Art (§ 4 Absatz 2 Nr. 3) können einmal wiederholt werden.
(5) Studienleistungen können mehrfach wiederholt werden.

(6) Die Prüfungsleistung ist endgültig nicht bestanden, wenn die mündliche Nachprüfung im Sinne des Absatzes 1 mit „nicht ausreichend“ (5,0) bewertet wurde. Die Prüfungsleistung ist ferner endgültig nicht bestanden, wenn die mündliche Prüfung im Sinne des Absatzes 2 oder die Prüfungsleistung anderer Art gemäß Absatz 4 zweimal mit „nicht bestanden“ bewertet wurde.

(7) Das Modul ist endgültig nicht bestanden, wenn eine für sein Bestehen erforderliche Prüfungsleistung endgültig nicht bestanden ist.

(8) Eine zweite Wiederholung derselben Prüfungsleistung gemäß § 4 Abs. 2 ist nur in Ausnahmefällen auf Antrag des/der Studierenden zulässig („Antrag auf Zweitwiederholung“). Der Antrag ist schriftlich beim Prüfungsausschuss in der Regel bis zwei Monate nach Bekanntgabe der Note zu stellen.


(9) Die Wiederholung einer bestandenen Prüfungsleistung ist nicht zulässig.

(10) Die Bachelorarbeit kann bei einer Bewertung mit „nicht ausreichend“ (5,0) einmal wiederholt werden. Eine zweite Wiederholung der Bachelorarbeit ist ausgeschlossen.

§ 10 Abmeldung; Versäumnis, Rücktritt

(1) Studierende können ihre Anmeldung zu schriftlichen Prüfungen ohne Angabe von Gründen bis zur Ausgabe der Prüfungsaufgaben widerrufen (Abmeldung). Eine Abmeldung kann online im Studierendenportal bis 24:00 Uhr des Vortages der Prüfung oder in begründeten Ausnahmefällen beim Studierendenservice innerhalb der Geschäftszeiten erfolgen. Erfolgt die Abmeldung gegenüber dem/der Prüfenden hat diese/r Sorge zu tragen, dass die Abmeldung im Campus Management System verbucht wird.


(4) Eine Erfolgskontrolle gilt als mit „nicht ausreichend“ (5,0) bewertet, wenn die Studierenden einen Prüfungstermin ohne triftigen Grund versäumen oder wenn sie nach Beginn der Erfolgskontrolle ohne triftigen Grund von dieser zurücktreten. Dasselbe gilt, wenn die Bachelorarbeit nicht innerhalb der vorgesehenen Bearbeitungszeit erbracht wird, es sei denn, der/die Studierende hat die Fristüberschreitung nicht zu vertreten.

§ 11 Täuschung, Ordnungsverstoß

(1) Versuchen Studierende das Ergebnis ihrer Erfolgskontrolle durch Täuschung oder Benutzung nicht zugelassener Hilfsmittel zu beeinflussen, gilt die betreffende Erfolgskontrolle als mit „nicht ausreichend“ (5,0) bewertet.

(2) Studierende, die den ordnungsgemäßen Ablauf einer Erfolgskontrolle stören, können von der/dem Prüfenden oder der Aufsicht führenden Person von der Fortsetzung der Erfolgskontrolle ausgeschlossen werden. In diesem Fall gilt die betreffende Erfolgskontrolle als mit „nicht ausreichend“ (5,0) bewertet. In schwerwiegenden Fällen kann der Prüfungsausschuss diese Studierenden von der Erbringung weiterer Erfolgskontrollen ausschließen.

(3) Näheres regelt die Allgemeine Satzung des KIT zur Redlichkeit bei Prüfungen und Praktika in der jeweils gültigen Fassung.

§ 12 Mutterschutz, Elternzeit, Wahrnehmung von Familienpflichten


(3) Der Prüfungsausschuss entscheidet auf Antrag über die flexible Handhabung von Prüfungsfristen entsprechend den Bestimmungen des Landeshochschulgesetzes, wenn Studierende Familienpflichten wahrzunehmen haben. Absatz 2 Satz 4 bis 6 gelten entsprechend.

§ 13 Studierende mit Behinderung oder chronischer Erkrankung


(2) Weisen Studierende eine Behinderung oder chronische Erkrankung nach und folgt daraus, dass sie nicht in der Lage sind, Erfolgskontrollen ganz oder teilweise in der vorgeschriebenen Zeit oder Form abzulegen, kann der Prüfungsausschuss gestatten, die Erfolgskontrollen in ei-
nem anderen Zeitraum oder einer anderen Form zu erbringen. Insbesondere ist behinderten Studierenden zu gestatten, notwendige Hilfsmittel zu benutzen.

(3) Weisen Studierende eine Behinderung oder chronische Erkrankung nach und folgt daraus, dass sie nicht in der Lage sind, die Lehrveranstaltungen regelmäßig zu besuchen oder die gemäß § 20 erforderlichen Studien- und Prüfungsleistungen zu erbringen, kann der Prüfungsausschuss auf Antrag gestatten, dass einzelne Studien- und Prüfungsleistungen nach Ablauf der in dieser Studien- und Prüfungsordnung vorgesehenen Fristen absolviert werden können.

§ 14 Modul Bachelorarbeit

(1) Voraussetzung für die Zulassung zum Modul Bachelorarbeit ist, dass die/der Studierende

1. das Fach „Entwerfen“,  
2. das Fach „Integrales Entwerfen“ und  
3. zusätzlich Modulprüfungen im Umfang von 76 LP erfolgreich abgelegt hat.

Über Ausnahmen entscheidet der Prüfungsausschuss auf Antrag der/des Studierenden.


(3) Thema. Aufgabenstellung und Umfang der Bachelorarbeit sind von dem Betreuer bzw. der Betreuerin so zu begrenzen, dass sie mit dem in Absatz 4 festgelegten Arbeitsaufwand bearbeitet werden kann.


(5) Bei der Abgabe der Bachelorarbeit haben die Studierenden schriftlich zu versichern, dass sie die Arbeit selbstständig verfasst und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt haben, die wörtlich oder inhaltlich übernommenen Stellen als solche kenntlich gemacht und die Satzung des KIT zur Sicherung guter wissenschaftlicher Praxis in der jeweils gültigen Fassung beachtet haben. Wenn diese Erklärung nicht enthalten ist, wird die Arbeit nicht ange nommen. Die Erklärung kann wie folgt lauten: „Ich versichere wahrheitsgemäß, die Arbeit selbstständig verfasst, alle benutzten Hilfsmittel vollständig und genau angegeben und alles
kenntlich gemacht zu haben, was aus Arbeiten anderer unverändert oder mit Abänderungen entnommen wurde sowie die Satzung des KIT zur Sicherung guter wissenschaftlicher Praxis in der jeweils gültigen Fassung beachtet zu haben. Bei Abgabe einer unwahren Versicherung wird die Bachelorarbeit mit „nicht ausreichend“ (5,0) bewertet.


§ 15 Zusatzleistungen


(2) Die Studierenden haben bereits bei der Anmeldung zu einer Prüfung in einem Modul diese als Zusatzleistung zu deklarieren. Auf Antrag der Studierenden kann die Zuordnung des Moduls später geändert werden.

§ 15 a Mastervorzug


§ 16 Überfachliche Qualifikationen

Neben der Vermittlung von fachlichen Qualifikationen ist der Auf- und Ausbau überfachlicher Qualifikationen im Umfang von mindestens 6 LP Bestandteil eines Bachelorstudiums. Überfachliche Qualifikationen können additiv oder integrativ vermittelt werden.
§ 17 Prüfungsausschuss

(1) Für den Bachelor-Studiengang Architektur wird ein Prüfungsausschuss gebildet. Er besteht aus fünf stimmberechtigten Mitgliedern: drei Hochschullehrer/innen/ leitenden Wissenschaftler/innen gemäß § 14 Abs. 3 Ziff. 1 KITG / Privatdozentinnen bzw. -dozenten, zwei akademischen Mitarbeiterinnen und Mitarbeitern nach § 52 LHG / wissenschaftlichen Mitarbeiter/innen gemäß § 14 Abs. 3 Ziff. 2 KITG und einer bzw. einem Studierenden mit beratender Stimme. Im Falle der Einrichtung eines gemeinsamen Prüfungsausschusses für den Bachelor- und den Masterstudiengang Architektur erhöht sich die Anzahl der Studierenden auf zwei Mitglieder mit beratender Stimme, wobei je eine bzw. einer dieser beiden aus dem Bachelor- und aus dem Masterstudiengang stammt. Die Amtszeit der nichtstudentischen Mitglieder beträgt zwei Jahre, die des studentischen Mitglieds ein Jahr.


(4) Der Prüfungsausschuss kann die Erledigung seiner Aufgaben für alle Regelfälle auf die/den Vorsitzende/n des Prüfungsausschusses übertragen. In dringenden Angelegenheiten, deren Erledigung nicht bis zu der nächsten Sitzung des Prüfungsausschusses warten kann, entscheidet die/den Vorsitzende/n des Prüfungsausschusses.


(6) In Angelegenheiten des Prüfungsausschusses, die eine an einer anderen KIT-Fakultät zu absolvierte Prüfungsleistung betreffen, ist auf Antrag eines Mitgliedes des Prüfungsausschusses eine fachlich zuständige und von der betroffenen KIT-Fakultät zu nennende prüfungsberechtigte Person hinzuzuziehen.


§ 18 Prüfende und Beisitzende

(1) Der Prüfungsausschuss bestellt die Prüfenden. Er kann die Bestellung der/dem Vorsitzenden übertragen.
(2) Prüfende sind Hochschullehr/innen sowie leitende Wissenschaftler/innen gemäß § 14 Abs. 3 Ziff. 1 KITG, habilitierte Mitglieder und akademische Mitarbeiter/innen gemäß § 52 LHG, welche der KIT-Fakultät angehören und denen die Prüfungsbefugnis übertragen wurde; desgleichen kann wissenschaftlichen Mitarbeitern gemäß § 14 Abs. 3 Ziff. 2 KITG die Prüfungsbefugnis übertragen werden. Bestellt werden darf nur, wer mindestens die dem jeweiligen Prüfungsgegenstand entsprechende fachwissenschaftliche Qualifikation erworben hat.

(3) Soweit Lehrveranstaltungen von anderen als den unter Absatz 2 genannten Personen durchgeführt werden, sollen diese zu Prüfenden bestellt werden, sofern die KIT-Fakultät eine Prüfungsbefugnis erteilt hat und sie die gemäß Absatz 2 Satz 2 vorausgesetzte Qualifikation nachweisen können.


§ 19 Anerkennung von Studien- und Prüfungsleistungen, Studienzeiten

(1) Studien- und Prüfungsleistungen sowie Studienzeiten, die in Studiengängen an staatlichen oder staatlich anerkannten Hochschulen und Berufsakademien der Bundesrepublik Deutschland oder an ausländischen staatlichen oder staatlich anerkannten Hochschulen erbracht wurden, werden auf Antrag der Studierenden anerkannt, sofern hinsichtlich der erworbenen Kompetenzen kein wesentlicher Unterschied zu den Leistungen oder Abschlüssen besteht, die ersetzt werden sollen. Dabei ist kein schematischer Vergleich, sondern eine Gesamtbetrachtung vorzunehmen. Bezuglich des Umfangs einer zur Anerkennung vorgelegten Studienleistung (Anrechnung) werden die Grundsätze des ECTS herangezogen.

(2) Die Studierenden haben die für die Anerkennung erforderlichen Unterlagen vorzulegen. Studierende, die neu in den Studiengang Architektur immatrikuliert wurden, haben den Antrag mit den für die Anerkennung erforderlichen Unterlagen innerhalb eines Semesters nach Immatrikulation zu stellen. Bei Unterlagen, die nicht in deutscher oder englischer Sprache vorliegen, kann eine amtlich beglaubigte Übersetzung verlangt werden. Die Beweislast dafür, dass der Antrag die Voraussetzungen für die Anerkennung nicht erfüllt, liegt beim Prüfungsausschuss.

(3) Werden Leistungen angerechnet, die nicht am KIT erbracht wurden, werden sie im Zeugnis als „anerkannt“ ausgewiesen. Liegen Noten vor, werden die Noten, soweit die Notensysteme vergleichbar sind, übernommen und in die Berechnung der Modulnoten und der Gesamtnote einbezogen. Sind die Notensysteme nicht vergleichbar, können die Noten umgerechnet werden. Liegen keine Noten vor, wird der Vermerk „bestanden“ aufgenommen.

(4) Bei der Anerkennung von Studien- und Prüfungsleistungen, die außerhalb der Bundesrepublik Deutschland erbracht wurden, sind die von der Kultusministerkonferenz und der Hochschulrektorenkonferenz gebilligten Äquivalenzvereinbarungen sowie Absprachen im Rahmen der Hochschulpartnerschaften zu beachten.

(5) Außerhalb des Hochschulsystems erworbenen Kenntnisse und Fähigkeiten werden angerechnet, wenn sie nach Inhalt und Niveau den Studien- und Prüfungsleistungen gleichwertig sind, die ersetzt werden sollen und die Institution, in der die Kenntnisse und Fähigkeiten erworben wurden, ein genormtes Qualitätssicherungssystem hat. Die Anrechnung kann in Teilen versagt werden, wenn mehr als 50 Prozent des Hochschulstudiums ersetzt werden soll.

II. Bachelorprüfung

§ 20 Umfang und Art der Bachelorprüfung

(1) Die Bachelorprüfung besteht aus den Modulprüfungen nach Absatz 2 sowie dem Modul Bachelorarbeit (§ 14).

(2) Es sind Modulprüfungen in folgenden Pflichtfächern abzulegen:

1. Entwerfen: Modul(e) im Umfang von 40 LP
2. Integrales Entwerfen: Modul(e) im Umfang von 14 LP
3. Bautechnik: Modul(e) im Umfang von 32 LP
4. Theoretische und historische Grundlagen: Modul(e) im Umfang von 20 LP
5. Gestalten und Darstellen: Modul(e) im Umfang von 20 LP
6. Stadt- und Landschaftsplanung: Modul(e) im Umfang von 20 LP
7. Vertiefung: Modul(e) im Umfang von 16 LP
8. Überfachliche Qualifikationen im Umfang von 6 LP gemäß § 16

Die Festlegung der zur Auswahl stehenden Module und deren Fachzuordnung werden im Modulhandbuch getroffen.

(3) Die Teilnahme an im Einzelnen festgelegten Exkursionen ist Pflicht (Pflichtexkursionen). Näheres regeln die „Richtlinien zur Durchführung von Exkursionen des Karlsruher Instituts für Technologie (KIT)” sowie das Modulhandbuch.

§ 21 Bestehen der Bachelorprüfung, Bildung der Gesamtnote

(1) Die Bachelorprüfung ist bestanden, wenn alle in § 20 genannten Modulprüfungen mindestens mit „ausreichend” bewertet wurden.


(3) Haben Studierende die Bachelorarbeit mit der Note 1,0 und die Bachelorprüfung mit einem Durchschnitt von 1,2 oder besser abgeschlossen, so wird das Prädikat „mit Auszeichnung“ (with distinction) verliehen.

§ 22 Bachelorzeugnis, Bachelorurkunde, Diploma Supplement und Transcript of Records


(2) Das Zeugnis enthält die Fach- und Modulnoten sowie die den Modulen und Fächern zugeordneten Leistungspunkte und die Gesamtnote. Sofern gemäß § 7 Abs. 2 Satz 2 eine differenzierte Bewertung einzelner Prüfungsleistungen vorgenommen wurde, wird auf dem Zeugnis auch die

(3) Mit dem Zeugnis erhalten die Studierenden ein Diploma Supplement in deutscher und englischer Sprache, das den Vorgaben des jeweils gültigen ECTS Users’ Guide entspricht, sowie ein Transcript of Records in deutscher und englischer Sprache.


III. Schlussbestimmungen

§ 23 Bescheinigung von Prüfungsleistungen

Haben Studierende die Bachelorprüfung endgültig nicht bestanden, wird ihnen auf Antrag und gegen Vorlage der Exmatriculationsbescheinigung eine schriftliche Bescheinigung ausgestellt, die die erbrachten Studien- und Prüfungsleistungen und deren Noten enthält und erkennen lässt, dass die Prüfung insgesamt nicht bestanden ist. Dasselbe gilt, wenn der Prüfungsanspruch erloschen ist.

§ 24 Aberkennung des Bachelorgrades

(1) Haben Studierende bei einer Prüfungsleistung getäuscht und wird diese Tatsache nach der Aushändigung des Zeugnisses bekannt, so können die Noten der Modulprüfungen, bei denen getäuscht wurde, berichtigt werden. Gegebenenfalls kann die Modulprüfung für „nicht ausreichend“ (5,0) und die Bachelorprüfung für „nicht bestanden“ erklärt werden.

(2) Waren die Voraussetzungen für die Zulassung zu einer Prüfung nicht erfüllt, ohne dass Studierende darüber täuschen wollte, und wird diese Tatsache erst nach Aushändigung des Zeugnisses bekannt, wird dieser Mangel durch das Bestehen der Prüfung geheilt. Hat die/der Studierende die Zulassung vorsätzlich zu Unrecht erwirkt, so kann die Modulprüfung für „nicht ausreichend“ (5,0) und die Bachelorprüfung für „nicht bestanden“ erklärt werden.

(3) Vor einer Entscheidung des Prüfungsausschusses ist Gelegenheit zur Äußerung zu geben.

(4) Das unrichtige Zeugnis ist zu entziehen und gegebenenfalls ein neues zu erteilen. Mit dem unrichtigen Zeugnis ist auch die Bachelorurkunde einzuziehen, wenn die Bachelorprüfung aufgrund einer Täuschung für „nicht bestanden“ erklärt wurde.


(6) Die Aberkennung des akademischen Grades richtet sich nach § 36 Abs. 7 LHG.
§ 25 Einsicht in die Prüfungsakten
(1) Nach Abschluss der Bachelorprüfung wird den Studierenden auf Antrag innerhalb eines Jahres Einsicht in das Prüfungsexemplar ihrer Bachelorarbeit, die darauf bezogenen Gutachten und in die Prüfungsprotokolle gewährt.

(2) Für die Einsichtnahme in die schriftlichen Modulprüfungen, schriftlichen Modulteilprüfungen bzw. Prüfungsprotokolle gilt eine Frist von einem Monat nach Bekanntgabe des Prüfungsergebnisses.

(3) Der/die Prüfende bestimmt Ort und Zeit der Einsichtnahme.

(4) Prüfungsunterlagen sind mindestens fünf Jahre aufzubewahren.

§ 26 Inkrafttreten, Übergangsvorschriften
(1) Diese Studien- und Prüfungsordnung tritt am 01. Oktober 2016 in Kraft und gilt für
1. Studierende, die ihr Studium im Bachelorstudiengang Architektur am KIT im ersten Fachsemester aufnehmen, sowie für
2. Studierende, die ihr Studium im Bachelorstudiengang Architektur am KIT in einem höheren Fachsemester aufnehmen, sofern dieses Fachsemester nicht über dem Fachsemester liegt, das der erste Jahrgang nach Ziff. 1 erreicht hat.


Prof. Dr.-Ing. Holger Hanselka
(Präsident)