ELECTIVE COURSES

CURRENT ELECTIVE MODULES MASTER'S IN ARCHITECTURE

Module title
Digital Design Methodology
Digital Construction Methods
Communication and Presentation
Building Surveying Building Research
Building Analysis
Forms of representation and presentation
Design methodology
Sustainability in structural design
Architecture and landscape
Digital manufacturing techniques Wood
Special areas of architecture I
Special areas of architecture II
Use of solid building materials and their detailing
Smart systems
National or international workshops and symposia
National or international student competitions
Introduction to historical building research
Multi-story mixed construction methods and timber structures
Special topics in building history
Special topics in project planning in a historical context
Excursions
Artistic Design II

Information on elective modules:

At the end of each semester, the examination board for the Architecture program in the Design department publishes a catalog for the Master's program in Architecture with the courses offered in the following semester. In addition, Master's students are informed again at the beginning of their studies about the options available in the elective area. Furthermore, the lecturers present the modules during the first week of lectures.

Module enrollment:
According to the curriculum for the Master's program in Architecture, students take
1st to 3rd semester take one elective module per semester, so that students have completed a total of three elective modules from the elective offerings during their studies. All elective modules are worth 6 ECTS credits with a contact time of 4 SWS.

Module title: Digital Design Methodology				**Module no.: MAR WM 1**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	from the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students develop skills in the use of parametric/generative design methods.
- They become proficient in the use of advanced design and construction software and develop cross-project design tools.
- Bottom-up design strategies replace traditional top-down methods and are developed, for example, with programmed multi-agent systems.
- The applicability of these tools is examined on different scales, from furniture to urban planning.
- Students have learned to document design methods and then present them visually to a group.

- Students gain insight into the architectural theory foundations of digital design methodology.
- In-depth knowledge of algorithms for form generation is taught through exercises with associative design tools (e.g., Rhino/Grasshopper).
- The basics of computer science are taught using simple programming languages (Visual Basic, Python, Processing, etc.).

Usability of the module		
MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Relevant for all master's degree programs in the Department of Design.

Recommended prerequisites for participation

None

Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. Presentation ☐ Seminar paper and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Robert Thum

Literature/learning aids

- Hartmut Bohnacker: Generative Design – Designing, Programming, Visualizing / Schmidt Hermann Verlag, 2009
- Ludger Hovestadt: Beyond the Grid Architecture and Information Technology - Applications of a Digital Architectonic / Birkhäuser, 2009
- Greg Lynn: Animate Form / Princeton Architectural Press, 1999
- John Maeda: Creative code / Thames and Hudson, 2004
- Frederic Migayrou, Marie-Ange Brayer: Archilab: Radical Experiments in Global Architecture / Thames and Hudson, 2001
- Frederic Migayrou, Marie-Ange Brayer: Archilab's urban experiments - radical architecture, art and the city / Thames and Hudson, 2005

Maximum number of participants
17
Status: WS 2025/2026

Module title: Digital Construction Methods				**Module no.: MAR WM 2**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Students will have adequate knowledge of computer-aided manufacturing methods ("digital chain") in theory and practice, preferably with wood and wood-based materials.
- They are familiar with the possibilities of different design and manufacturing methods, as well as their application.

Contents

- Students will learn how to use computer-aided manufacturing methods ("digital chain"), preferably with wood, in theory and practice. This will include
  explains the possibilities of different production processes and teaches their application using case studies or small design tasks.
- You will gain insight into the different manufacturing processes using case studies.
- The module teaches basic knowledge in the application of advanced design tools (e.g., Rhino/Grasshopper/Rhino-Cam; CATIA, G-code programming).

Usability of the module		
MA Architecture	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific Architecture

Recommended prerequisites for participation

Good basic knowledge of Rhino and AutoCAD/ArchiCAD

Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar paper and term paper ☐ practical examination	Passed the exam with at least a satisfactory grade
Instructor		Module coordinator
Variable, lecturers from the Architecture program		Prof. Robert Thum

Literature/learning aids

- Christian Ceccato: Advances in Architectural Geometry / Springer, 2010
- Lisa Iwamoto: Digital Fabrications - Architectural and Material Techniques / Princeton Architectural Press, 2009
- B. Kolarevic: Digital Morphogenesis - Architecture in the Digital Age – Design and Manufacturing / Spon Press, 2003
- Erich H. Lass: Architectural Geometry / Springer, 2009
- W. Nerdinger, et al.: Frei Otto Complete Works - Lightweight Construction – Natural Design / Birkhäuser, 2005

Max. number of participants
10 people
Status: WS 2025/2026

Module title: Communication and Presentation				**Module no.: MAR WM 3**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- The module provides Master's students with an introduction to independent academic work and teaches them the prerequisites for research as well as the documentation and communication of research results.
- Students acquire in-depth knowledge of specialist databases, journals, and scientific standards in architecture and design. Students will

  Upon successful completion of the module, students will be able to compile and evaluate academic literature and current positions on a selected topic. Students learn to present and document facts, arguments, and theories from history and contemporary issues in a sustainable manner. They can identify the added value of a critical-reflective approach to a historical or current topic and apply it to their thesis. They can apply the conventions and standards of academic practice to the written and oral presentation of their work results.

Contents

- Students deepen their basic knowledge of research and documentation in the fields of architecture, from aesthetics to building physics to material cycles. We consolidate

  and refine the techniques of scientific work, namely critical selection, analytical reading, and the application of a methodological apparatus or theoretical school to their own questions. Several genres of communication and presentation are tested for different discourses, from international conferences to open participatory processes. Another focus is on the formal and legal aspects of academic texts, theses, and publications in professional life.
- The module offers the opportunity to explore topics from project work and design in the scientific context of one's own discipline or the social sciences, to critically evaluate them

  and develop them with a focus on unique selling points for the professional public.

Usability of the module

MA Architecture	☐ Compulsory subject	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory subject	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective

MA Fashion Design	☐ Compulsory subject	☒ Elective
Recommended degree program		
Subject-specific Architecture Also relevant for all other master's degree programs in the Department of Design.		
Recommended prerequisites for participation		
None		
Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Prof. Dr. Susanne Bennewitz		Prof. Dr. Susanne Bennewitz
Literature/Learning aids		
▪ ARCH+. Journal for Architecture and Urbanism / Berlin ▪ Janina Tosic: Writing in Design Studies / Opladen 2017 ▪ Michael Alley: The craft of scientific writing / Springer, 2017 ▪ A thematic literature list will be provided with the respective assignment.		
Max. number of participants		
17		
Status: WS 2025/2026		

Module title: Building survey Building research				**Module no.: MAR WM 4**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Students are familiar with the basic methods of restoration assessment, inventory recording, and evaluation for historical building research on the object, as well as the corresponding documentation procedures and can apply these to specific projects involving historical buildings, particularly monuments, and present and document the results in a scientifically correct manner.

Contents

- Exercises in assessment, mapping, and documentation of work results on a specific object.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective

Recommended degree program

Subject-specific architecture

Recommended prerequisites for participation

None

Examination formats		Requirements for awarding ECTS credits
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical exam	Minimum grade of satisfactory

Instructor	Module coordinator
Prof. Daniel Hoheneder	Prof. Daniel Hoheneder

Literature/learning aids

- Tobias Busen, Miriam Knechtel, et al.: *Building Surveying /* TUM University Press, 2017
- Gert Th. Mader, W. Koenigs, N. Huse, W. Nerdinger, E. Emmerling: *Applied Building Research /* Verlag das Beispiel, 2005
- Michael Petzet, Gert Th. Mader: *Practical Monument Preservation /* Kohlhammer, 1995
- Andreas Bruschke: *Building Surveying in Monument Preservation /* Fraunhofer IRB Publishing House, 2005
- Series of publications by the Working Group for Building Research (Arbeitskreis für Hausforschung e.V.) published by Michael Imhof Verlag

Max. number of participants

17
Status: WS 2025/2026

Module title: Building analysis				**Module no.: MAR WM 5**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- In addition to the predominantly quantitative analyses of buildings that are common today, students are sensitized to "classical" qualitative variables. They analyze and systematize structural characteristics such as primary/secondary construction, types of access, main and secondary areas, etc., as well as architectural categories such as transitions, paths, area/space relationships, transparency and superimposition, lighting, and more.
- Students should be able to analyze and describe current building and organizational typologies in terms of their architectural and spatial qualities and shortcomings.
- They learn to characterize and classify buildings typologically.

Contents

- The topics are discussed using well-known, selected building examples:
- 2D and 3D analysis methods;
- analog and digital replication of building-defining structures using selected examples;
- Visualization of spatial relationships and discontinuities;
- Distinction between "typical" and "atypical";
- Overlapping and interpenetration of space;
- Consistency of form and content.

Usability of the module

MA Architecture	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory	☒ Elective

Recommended degree program

Subject-specific Architecture, Interior Design, Civil Engineering.

Recommended prerequisites for participation

None

Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Jan-Henrik Hafke
Literature/learning aids		
▪ Kenneth Frampton: Principles of Architecture / Oktagon, 1993 ▪ J. Herzog, P. de Meuron: Natural History / L. Müller, 2002 ▪ Bernhard Hoesli: Teaching Architecture / ETH Zurich, 1989 ▪ 10 Stories of Collective Housing - Graphical analysis of inspiring masterpieces / a+t research group, 2013		
Max. participants		
17		
Status: WS 2025/2026		

Module title: Forms of representation and presentation				**Module no.: MAR WM 6**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students will acquire strategies for presenting designs in the best possible way and disseminating them through various publication channels.
- They can elaborate on the conceptual background and potential of their designs in explanations, pictograms, and linguistic means.

Contents

- "Forms of Representation and Presentation" is a course for analyzing and deepening representation and layout techniques. The analyses range from international plan representations in the categories of competition to architectural film or
  building presentations.
- From this, students develop their own strategies for presenting their designs in the best possible way and disseminating them appropriately through various publication channels.
- Plan elements such as floor plans, sections and elevations, explanatory pictograms, interior and exterior perspectives, site plans, black plans, and texts are developed specifically for each design.
- Quick readability, clear information, and reinforcement of the design concept are the most important building blocks.
- In a further step, clear "redrawings" of the project parts are created in easily understandable and quickly readable graphics, e.g., for publication on the Internet.
- The result is published in a blog.
- At the end of the course, the best works are selected in a competition with an external jury. The competition criteria focus less on the quality of the design and more on the presentation techniques used.

Usability of the module		
MA Architecture	☐ Compulsory subject	☒ Elective subject

Recommended degree program

Subject-specific Architecture

Recommended prerequisites for participation

None

Examination formats		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☒ Project presentation ☐ Portfolio ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory

Instructor	Module coordinator
Variable, instructors of the architecture program	Prof. Andrea Wandel

Literature/learning aids

- Eberhard Holder, Martin Peukert: Representation and Presentation - Designing Freehand and with Computer Tools - A Handbook / DVA, 2002
- Frank P. Jäger, et al.: Offensive Architecture - Presentation, Public Relations, and Marketing for Architects / Jovis, 2004
- Blogs, websites of architecture firms, architecture forums
- Current print and online media reflecting the state of the art

Maximum number of participants

17

Status: WS 2025/2026

Module title: Design methodology				**Module no.: MAR WM 7**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students have the ability to design and manage the design process, including basic knowledge of networked working methods and different, interrelated methodologies.
- They can develop creative representations and develop a personal visual language.
- They acquire the competence, knowledge, and ability to conduct independent research, develop discursive design approaches and planning strategies, and present their work in appropriate formats.

Contents

- By searching for the appropriate design strategy for the design task and design presentation, students learn methodological tools for reducing design complexity.
- Classic design strategies and design conventions are questioned, and there is a focus on design-relevant topics and spatial discoveries.
- Material experiments and focus on specific areas and guiding principles can be explored under topics such as "design strategies as a plastic medium" and "between functionalism doctrine and the principle of chance."
- There is an intensive exchange of ideas and skills among the students, and interdisciplinary approaches are required.

Usability of the module

MA Architecture	☐ Compulsory subject	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific Architecture
Also relevant for the other master's programs in the Department of Design.

Recommended prerequisites for participation

None

Types of examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Prof. Andrea Wandel		Prof. Andrea Wandel
Literature/learning aids		
▪ Marc Angélil, Dirk Hebel: Architektur Entwerfen / Birkhäuser, 2008 ▪ Jörg Joppien: Design Theory – A Search – Teaching Design / Wasmuth, 2008 ▪ Bert Bielefeld, Sebastian El Khouli: Design Idea / Birkhäuser, 2010 ▪ Christian Gänshirt: Tools for Ideas / Walter de Gruyter, 2012 ▪ K. Jormakka: Basics: Methods of Form Finding / Birkhäuser, 2008 ▪ A topic-specific reading list will be provided with the assignment.		
Max. number of participants		
17		
Status: WS 2025/2026		

Module title: Sustainability in Structural Design				**Module no.: MAR WM 8**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Students will be able to scientifically analyze and compare topics such as sustainability, component assembly, structural systems, and building materials.
- They learn advanced methods of structural design and sustainability concepts that they can incorporate into their own projects.
- Students will have the ability to document and present the knowledge they have gained in a scientifically adequate and creatively appealing manner.

Contents

- The mutual interactions between structural systems, building materials, and joining methods with regard to a holistic sustainability assessment form the essential focus of this course.
- The methods and content of this course aim to enable students to develop answers to the two complex topics of structural design and sustainability in parallel, even in the early stages of design.

Usability of the module		
MA Architecture	☐ Compulsory	☒ Elective
MA Interior Design	☐ Compulsory	☒ Elective

Study program recommendation

Subject-specific architecture
Also relevant for civil engineering and interior design.

Recommended prerequisites for participation

None

Examination formats		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory

Instructor	Module coordinator
Prof. Daniel Lauterkorn	Prof. Daniel Lauterkorn

Literature/learning aids

▪ A list of relevant literature will be provided with the assignment.
Maximum number of participants
17
Status: WS 2025/2026

Module title: Architecture and Landscape				**Module no.: MAR WM 9**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students are able to study selected examples of landscape architecture in various cultural, social, geographical, and architectural contexts through source research, description, analysis, and evaluation.
- They are able to deconstruct these project examples into their design-relevant components using graphic representations.
- They apply their findings in their own impromptu landscape architecture design.
- Students learn about the space-creating potential of landscape architecture.
- They are prepared for communication and cooperation with landscape architects.

Contents

- The integration of outdoor spaces into the design of architecture and urban planning. Landscape architecture as an expanding potential for architectural and urban design. The recognition of parallels in strategies and concepts,
  distinguishing between the means employed.
- The outdoor space as a conceptual component of architecture: generating and/or supporting concepts.
- Landscape architecture / architectural landscapes: interfaces between architecture and landscape architecture.
- Cooperation with international universities of landscape architecture.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective

Recommended degree program

Subject-specific Architecture

Recommended prerequisites for participation

None

Examination formats		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio ☐ Seminar paper and term paper ☐ practical examination	Passed the exam with at least a satisfactory grade
Instructor		Module coordinator

Variable, lecturers from the Architecture program	Prof. Lena Piepmeyer
Literature/learning aids	
▪ Diana Balmori, Joel Sanders: Groundwork - Between Landscape and Architecture / 2011 ▪ Almut Jirku: StadtGrün / Fraunhofer IRB, 2013 ▪ Hans Loidl, Stefan Bernard: Freiräume(n) - Entwerfen als Landschaftsarchitektur / Birkhäuser, 2014 ▪ Gabriele G. Kiefer; Anika Neubauer: Landscape for Architects / Birkhäuser, 2020 ▪ Trade journals: Topos, Anthos, G+L Garten + Landschaft	
Max. number of participants	
17	
Status: WS 2025/2026	

Module title: Digital Manufacturing Techniques for Wood				**Module no.: MAR WM 10**	
Module duration	Semester in which the module takes place	Frequency of the course		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Qualification objective:
  Introduction to the iterative process from digital design to CADCAM manufacturing of bar and sheet-shaped wood-based materials, particularly in the field of building envelopes and facades. Knowledge of the CAD design process chain in RHINO and GRASHOPPER, material-related data preparation for CAD joinery and production in collaboration with companies specializing in this field companies. Acquisition of advanced expertise in the manufacturing and joining process of large-scale wooden elements using innovative wood connections.
- Teaching of the digital process chain up to the detailing of individual joining and connection concepts, taking into account the structural and economic aspects of building envelopes made of wood and wood-based materials.
- Students have learned to evaluate current scientific literature and trade journals and derive recommendations for action from them.
- Reference projects are analyzed by the students using building physics and scientific aspects, and the findings are documented accordingly.

Contents

- Wood as a rod-shaped building material, as well as panel-shaped wood-based materials, have great development potential in terms of ecological, building physics, structural, and
  design quality of supporting structures and facade elements. The current design and construction concept is largely based on the possibilities offered by conventional, artisanal execution and joinery techniques.

Usability of the module		
MA Architecture	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific Architecture

Recommended prerequisites for participation

None

Examination formats		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☒ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☐ Portfolio ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory

Instructor	Module coordinator
Variable, instructors of the architecture program	N.N.

Literature/learning aids

- J. Knippers: From Model Thinking to Process Design. > In: Castle, H. (ed.): *Architectural Design*. West Sussex: John Wiley & Sons Ltd, March/April 2013, pp. 74-81
- Erich H. Lass: *Architectural Geometry /* Springer, 2009
- A. Menges, T. Schwinn, O.D. Krieg: *Advancing Wood Architecture - A Computational Approach /* Routledge, 2016
- A. Menges: Material Synthesis - *Fusing the Physical and the Computational /* John Wiley & Sons, 2015
- H. Stehling, F. Scheuerer: *Bridging the gap from CAD to CAM - Concepts, caveats, and a new Grasshopper plug-in*. > In: *Proceedings of the Symposium FABRICATE 2014*, ETH Zurich, Switzerland, February 14–15, 2014, pp. 53–59
- Accompanying study notes, bibliography, manuals for RHINO, GRASHOPPER, DIETRICHS

Max. number of participants

17

Status: WS 2025/2026

Module title: Special Topics in Architecture I				**Module no.: MAR WM 11**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Variable, determined on a case-by-case basis		2 hours per week / 30 hours	60 hours	90 hours	
Competence goals (learning outcomes)					
▪ Students learn and deepen their knowledge of a selected topic in the context of architecture and urban planning.					
Contents					
▪ Depending on the task at hand, various theoretical and application-oriented topics in architecture and urban planning are covered.					
Usability of the module					
MA Architecture	☐ Compulsory	☒ Elective			
MA Interior Design	☐ Compulsory	☒ Elective			
Recommended degree program					
Subject-specific Architecture, Interior Design, Civil Engineering.					
Recommended prerequisites for participation					
None					
Examination				Prerequisite for the awarding of ECTS	
☒ Written exam ☐ Oral exam ☐ Internship /laboratory performance ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination			Minimum grade of satisfactory	
Instructor				Module coordinator	
Variable, instructors of the architecture program				N.N.	
Literature/learning aids					

- Christopher Alexander: A Pattern Language - Towns, Buildings, Construction / First, 1978
- Marius Babias: From the City of Parts to the City of Participation / Berliner Projekte, 2013
- Andrea Baier, Tom Hansing, Christa Müller, Karin Werner: Repairing the World / transcript Verlag, 2016
- Annette Becker, Laura Kienbaum, Kristien Ring, Peter Cachola Schmal: Building and Living in Communities / Birkhäuser, 2015
- Clemens Bellut, Denise Scott Brown, Johann Feichter, Andrea Gleiniger, Klaus Mainzer, Kostas Terzidis, Robert Venturi; Georg Vrachliotis: Complexity: Design Strategy and Worldview (Context Architecture) / Edited by Andrea Gleiniger and Georg Vrachliotis
  / Birkhäuser, 2008
- Angelika Fitz, Elke Krasny Krasny, Architekturzentrum Wien: Critical Care / MIT Press, 2019
- A. Gleiniger, Georg Vrachliotis: Patterns: Ornament, Structure, and Behavior / 2009
- A topic-specific reading list will be provided with the assignment.

Maximum number of participants
17
Status: WS 2025/2026

Module title: Special Areas of Architecture II				**Module no.: MAR WM 12**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Variable, determined on a case-by-case basis		2 hours per week / 30 hours	60 hours	90 hours	
Competency goals (learning outcomes)					
▪ Students learn about and explore a selected topic in the context of architecture and urban planning.					
Contents					
▪ Depending on the task at hand, various theoretical and practical topics related to architecture and urban planning are covered.					
Usability of the module					
MA Architecture		☐ Compulsory		☒ Elective	
MA Interior Design		☐ Compulsory		☒ Elective	
Recommended degree program					
Subject-specific Architecture, Interior Design, Civil Engineering.					
Recommended prerequisites for participation					
None					
Examination				Prerequisite for the award of ECTS	
☒ Written exam ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium		☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination		Minimum grade of satisfactory	
Instructor				Module coordinator	
Variable, instructors of the architecture program				N.N.	
Literature/Learning aids					

- Christopher Alexander: A Pattern Language - Towns, Buildings, Construction / First, 1978.
- Marius Babias: From the City of Parts to the City of Participation / Berliner Projekte, 2013
- Andrea Baier, Tom Hansing, Christa Müller, Karin Werner: Repairing the World / transcript Verlag, 2016
- Annette Becker, Laura Kienbaum, Kristien Ring, Peter Cachola Schmal: Bauen Und Wohnen in Gemeinschaft - Building and Living in Communities / Birkhäuser, 2015
- Clemens Bellut, Denise Scott Brown, Johann Feichter, Andrea Gleiniger, Klaus Mainzer, Kostas Terzidis, Robert Venturi, Georg Vrachliotis: Complexity - Design Strategy and Worldview (Context Architecture) - Edited by Andrea Gleiniger and Georg Vrachliotis
  / Birkhäuser, 2008
- Angelika Fitz, Elke Krasny Krasny; Architekturzentrum Wien: Critical Care / MIT Press, 2019
- A. Gleiniger, Georg Vrachliotis: Patterns: Ornament, Structure, and Behavior / 2009
- A topic-specific reading list will be provided with the assignment.

Max. participants
17
Status: WS 2025/2026

Module title: Use of solid building materials and their detailing				**Module no.: MAR WM 13**	
Module duration	Semester in which the module takes place	Frequency of the course		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Students gain a deeper understanding of the connection between design and detailing in architectural design in relation to materials, surfaces, and proportions. They develop a sense of the consequences of Deciding on a material and detail for later execution and what needs to be taken into account.
- You will gain experience with the conditions and possibilities that the craftsmanship involved in implementing the design idea can entail, both in technical and creative terms, but also, for example, during the planning of the implementation in a sample piece, what consequences the implementation in detail can have on the design in order to guarantee feasibility.
- Students have the ability to present their designs linguistically and visually to a group.
- They can analyze tasks and problems using scientific methods.
- Through scientific research, students have deepened their theoretical knowledge and are thus able to evaluate reference projects and provide assessments and recommendations accordingly. This assessment is usually presented in the form of a presentation to other students.

Contents

- Design of a building element, e.g., a facade, a special building element, or similar, down to the details and, under certain circumstances, to the creation of a detailed sample.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective subject

Recommended degree program

Relevant for all master's degree programs in the Department of Design.

Recommended prerequisites for participation

None		
Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Daniel Berger
Literature/learning aids		
▪ Martin Peck (ed.): Atlas of Modern Concrete Construction – Design, Materials, Sustainability / Edition Detail, 2013 ▪ Prof. Benedikt Schulz, Prof. Ansgar Schulz: Atlas of Masonry / Edition Detail, Nov. 2025 ▪ Manfred Hegger, Volker Auch-Schwelk, Matthias Fuchs, Thorsten Rosenkranz: Building Materials Atlas / Edition Detail, 2005 ▪ A project-specific reading list will be provided with the assignment.		
Max. number of participants		
17		
Status: WS 2025/2026		

Module title: Smart Systems				**Module no.: MAR WM 14**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Smart systems, smart materials, and smart skins that have already been implemented or are in the planning stages are analyzed and examined for their potential.
- Building on this wealth of experience, students are able to search for connections between scientific laws and their potential applications in architecture and/or systems.
- Students recognize innovation potential and can apply it to architecture experimentally or by way of example.
- Students have learned to present the smart systems they have analyzed and examined for their potential to a group.

Contents

- With the government's efforts to make Germany's entire building stock CO2-neutral by 2050, smart systems are becoming increasingly important in engineering and architecture.
- This term encompasses energy systems, smart materials, smart skins, and their interactions.
- Smart systems will fundamentally change architecture and our understanding of architecture in the coming years.
- In lectures and exercises, terminology will be clarified, existing and planned smart systems and smart materials will be analyzed, and laws and trends from the natural sciences such as bionics, physics, chemistry, and biology will be systematically sought.
  evaluated and transferred to potential applications in architecture.
- The results range from realized experimental structures to complex designs for large-scale architecture that are entirely dedicated to a scientific and architectural theme and explore potential for the future.

Usability of the module

MA Architecture	☐ Compulsory subject	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Course recommendation

Relevant for all master's students in all semesters of the Design department.		
Recommended prerequisites for participation		
None		
Examination formats		Requirements for awarding ECTS credits
☐ Written exam ☐ Oral examination ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. Presentation ☐ Seminar paper and term paper ☐ Practical examination	Minimum grade of satisfactory Examination performance
Instructor		Module coordinator
Lecturers in the Architecture program		N.N.
Literature/learning aids		

- Axel Ritter: Smart Materials in Architecture, Interior Design, and Design / Birkhäuser, 2006
- Thorsten Klooster: Smart Surfaces and their Application in Architecture and Design / Birkhäuser, 2009
- Robert Kronenburg: Flexible - Architecture that responds to Change / Laurence King Publishing, 2007
- Michael Fox, Miles Kemp: Interactive Architecture—1st edition / Princeton Architectural Press, 2009
- Michael Schumacher, Oliver Schaeffer, Michael-Marcus Vogt: MOVE - Architecture in Motion – Dynamic Components and Building Elements / Birkhäuser, 2010
- Jules Moloney: Designing Kinetics for Architectural Facades - State Change / Routledge, 2011
- A project-specific reading list will be provided with the assignment.

Max. number of participants
17
Status: WS 2025/2026

Module title: National or international workshops and symposia				**Module no.: MAR WM 15**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		2 hours per week / 30 hours	60 hours	90 hours	

Competence goals (learning outcomes)

- National and international workshops and symposia are important building blocks for analyzing a defined topic in a short period of time and developing it to the point where it is ready for presentation.
- Contacts with other universities and teaching methods prepare students for a cross-disciplinary and cross-border working environment and way of working.

Contents

- The course content is determined by the topics covered in national or international workshops and symposia.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific architecture.
Also relevant for other master's degree programs in the Department of Design.

Recommended prerequisites for participation

None		
Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio including presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Variable, instructors of the architecture program		N.N.
Literature/learning aids		
▪ IASS International Association for Shell and Spatial Structures – annual international symposia for engineers, architects, construction companies, and anyone else interested in lightweight structures such as space frames, cable structures, membranes, and shell structures www.iass-structures.org. ▪ FABRICATE – international conferences are held every three years under this name to explore the future of architecture, engineering, and construction using modern methods, with a special focus on design, www.fabricate.org. ▪ A topic-specific reading list will be published with the assignment.		
Max. number of participants		
17		
Status: WS 2025/2026		

Module title: National or international student competitions				**Module no.: MAR WM 16**	
Module duration	Semester in which the module takes place	Frequency of offering		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- National and international student competitions serve to compare designs with those of other students and universities. They are an important tool for raising the profile of students and universities.
- Competitive strategies and modes of expression are developed that provide the best possible preparation for a career as an architect with a focus on design.

Contents

- Students learn to research competitions on their own initiative, evaluate their content, and apply for them.
- They learn to read and understand the competition documents.
- Strategies are taught and demonstrated for how to successfully participate in competitions. From design development to elaboration and presentation to time management.
- In addition to graphic representation, practices and techniques for visualization and model building are also taught.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific architecture.
Also relevant for other master's degree programs in the Department of Design.

Recommended prerequisites for participation

None

Examination	Prerequisite for the award of ECTS

☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. Presentation ☐ Seminar paper and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Daniel Berger
Literature/learning aids		
▪ Guidelines for Planning Competitions RPW 2013, BMVBS. ▪ AW Architektur + Wettbewerbe – International trade journal with a focus on building typology (current buildings, projects, and architecture competitions) www.kraemerverlag.com/publikationen/aw-architektur-wettbewerbe/ ▪ www.baunetz.de – Online network with comprehensive information and documentation on competitions ▪ wettbewerbe aktuell – monthly trade journal on the subject of architecture competitions, focusing on Germany and internationally significant competitions, www.wettbwerbe-aktuell.de ▪ www.CompetitionOnline.com – Platform for architecture and engineering competitions, online database for tenders, competition results, and completed projects		
Max. participants		
17		
Status: WS 2025/2026		

Module title: Introduction to historical building research				**Module no.: MAR WM 17**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		contact time	Self-study	Total workload for students	
Lecture, seminar, exercise		2 hours per week / 30 hours	60 hours	90 hours	
Competence goals (learning outcomes)					
▪ Students learn and master the methods of historical building research, in particular with regard to researching historical sources such as construction-era planning documents in text and drawing form and in the form of historical photographic material relating to the time of construction and subsequent phases of change of a building, applied to a specific object. They are able to evaluate the findings in relation to the current condition of the building and map them in construction phase plans.					
Contents					
▪ Archival research, ▪ source research, evaluation, documentation, ▪ Field research on the object.					
Usability of the module					
MA Architecture		☐ Compulsory subject		☒ Elective	
Recommended degree program					
Subject-specific architecture.					
Recommended prerequisites for participation					
None					
Examination				Prerequisite for the award of ECTS	
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium		☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination		Minimum grade of satisfactory	
Instructor				Module coordinator	
Prof. Daniel Hoheneder				Prof. Daniel Hoheneder	
Literature/learning aids					

- Gert Th. Mader, W. Koenigs, N. Huse, W. Nerdinger, E. Emmerling: Applied Building Research / Verlag das Beispiel, 2005
- Michael Petzet, Gert Th. Mader: Practical Monument Preservation / Kohlhammer, 1995
- Series of publications by the Working Group for Building Research (Arbeitskreis für Hausforschung e.V.) published by Michael Imhof Verlag
- G. Ulrich Großmann: Introduction to Historical Building Research / Wissenschaftliche Buchgesellschaft, 1993
- G. Ulrich Großmann: Introduction to Historical and Art-Historical Building Research / Wissenschaftliche Buchgesellschaft, 2010
- A topic-specific bibliography will be provided with the assignment.

Max. number of participants
17
Status: WS 2025/2026

Module title: Multi-story mixed construction methods and timber structures				**Module no.: MAR WM 18**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ if necessary		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- Wood and wood hybrid construction methods are becoming increasingly popular, particularly in the context of inner-city densification. Participants will first learn about the different types of multi-story buildings (support and bracing concepts).
- Qualification objective:
  To acquire advanced competence in the design, construction, and building physics of multi-story mixed construction methods and timber structures.
- Qualification for key positions in architecture and construction firms specializing in timber construction and mixed timber construction. Qualification for companies in the construction industry in the areas of planning, design, and manufacturing.

Contents

- Teaching specific knowledge for the project planning of timber and mixed timber construction methods. Qualification for material-specific construction research in timber and composite timber construction, in-depth knowledge of innovative joining technologies.
- Using selected examples, an analysis of static-structural (support and bracing concepts), fire protection, building physics, and supply engineering content is first carried out.
- A parallel task is to develop knowledge of building regulations in accordance with LBORLP 2015, MBO, as well as the restrictions on timber construction that apply to building class 3 and above.
- Based on the preparatory work described above, an evaluation and processing matrix is to be created, which can serve as a planning aid for such construction tasks and projects.
- The end result will be your own building design, in which the aforementioned content will be implemented independently.
- Cooperation with companies: There may be an opportunity to deepen the work in cooperation with a construction company, project developer, or architectural firm.

Usability of the module		
MA Architecture	☐ Compulsory	☒ Elective

Recommended degree program

Subject-specific Architecture, Interior Design, Civil Engineering.

Recommended prerequisites for participation

BAR 3.3 Design III

Examination	Prerequisite for the award of ECTS

☒ Written exam ☐ oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☐ portfolio ☒ Seminar and term paper ☐ Practical exam	At least with a satisfactory Passed exam
Instructor		Module coordinator
Variable, lecturers from the Architecture program		Prof. Marcel Balsen
Literature/learning aids		
▪ Short excursions to construction sites, projects, and wood production facilities during the semester. ▪ H. Kaufmann, S. Krötsch, S. Winter: *Atlas of Multi-Story Timber Construction* / 2017 ▪ J. Kolb: *Systematic Timber Construction* ▪ H. Neuhaus: *Engineering Wood Construction* ▪ Herzog, Natterer, et.al.: *Timber Construction Atlas* / 2003		
Max. number of participants		
17		
Status: WS 2025/2026		

Module title: Special Topics in Construction History				**Module no.: MAR WM 19**	
Module duration	Semester in which the module takes place	Frequency of offering		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Lecture, seminar		2 hours per week / 30 hours	60 hours	90 hours	

Competence goals (learning outcomes)

- Students will acquire in-depth knowledge of a specific phase of architectural history.
- They are familiar with the methods of sourcing, researching, and evaluating sources.
- You will be able to apply the above knowledge to a specific object of architectural history and summarize and document the results obtained in a scientifically accurate manner.

Contents

- Special topics in architectural history.
  These may relate to specific architectural figures, phases of architectural history, locations, or building typologies.

Usability of the module

MA Architecture	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific Architecture

Recommended prerequisites for participation

None

Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Prof. Daniel Hoheneder		Prof. Daniel Hoheneder

Literature/learning aids

- Helmut Sommer: A Brief History of Architecture / Verlag Handwerk und Technik, 2012
- Wilfried Koch: Architectural Styles - The Standard Work on European Architecture from Antiquity to the Present / Prestel, 2014
- A topic-specific reading list will be provided with the assignment.

Max. number of participants

17

Status: WS 2025/2026

Module title: Special Topics in Project Planning in a Historical Context				**Module no.: MAR WM 20**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competence goals (learning outcomes)

- With reference to a specific object from architectural history, students will be able to independently deepen their knowledge of the relevant section of architectural history and document and discuss the knowledge they have acquired in words, text, and images.
- They are able to apply project planning methods in a historical context to a specific object and to summarize, present, and document the corresponding work results in a scientifically correct form.
- Based on knowledge of the history of development and change of a specific object, you are able to outline the possibilities for future development of this object and discuss them in the context of contemporary social and architectural trends.

Contents

- Inventory, inventory assessment, and concept development for a specific historical object.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific Architecture

Recommended requirements for participation

None

Examination formats	Prerequisite for the awarding of ECTS

☐ Written exam ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical exam	At least satisfactory Passed exam
Instructor		Module coordinator
Prof. Daniel Hoheneder		Prof. Daniel Hoheneder
Literature/learning aids		
▪ Michael Petzet, Gert Th. Mader: Practical Monument Preservation / Kohlhammer, 1995 ▪ Achim Hubel: Monument Preservation – History – Topics – Tasks / Philipp Reclam jun. Verlag GmbH, 2024 ▪ Andreas Bruschke: Building Surveying in Monument Preservation / Fraunhofer IRB Verlag, 2005 ▪ A topic-specific reading list will be provided with the assignment.		
Maximum number of participants		
17		
Status: WS 2025/2026		

Module title: Excursions				**Module no.: MAR WM 21**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		3 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Excursion		2 hours per week / 30 hours	60 hours	90 hours	

Competence goals (learning outcomes)

- A key qualification objective is the recognition of different types of building structures within their regional and specific context.

Contents

- Complex architectural topics are explored on site through national and international excursions lasting several days.
- The analysis of the spatial relationships of urban structures, their emergence in a historical and sociocultural context, as well as contemporary developments and characteristics down to architecturally effective details are a focal point.
- Excursions serve to experience cultural, social, and political systems, as well as geological and climatic conditions and their influences on architecture, in order to better understand one's own environment.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective subject
MA Design 4	☐ Compulsory subject	☒ Elective subject
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Subject-specific architecture,
Also relevant for other master's degree programs in the Department of Design.

Recommended prerequisites for participation

None

Examination formats		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☐ Portfolio ☒ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory

Instructor	Module coordinator
Variable, instructors of the architecture program	Program director

Literature/learning aids

- Rainer Wieland: Das Buch des Reisens – Von den Seefahrern der Antike zu den Abenteuern unserer Zeit (The Book of Travel – From the Seafarers of Antiquity to the Adventures of Our Time) – 4th edition / Propyläen Verlag, 2015
- Michel De Montaigne: Journal of a Journey to Italy through Switzerland and Germany, 1580-1581
- Richard Lassels: The Voyage of Italy / Paris, 1670
- Johann Wolfgang von Goethe: Travel Diary 1786-1788 - Diary of the Italian Journey for Frau von Stein - 2 volumes > Volume 1: Facsimile of Goethe's manuscript and Volume 2: Transcription by Wolfgang Albrecht, edited by Konrad Scheuermann and Jochen Golz
- Ivan Zaknic: Klip [August Klipstein] and Corb [Le Corbusier] on the Road / Scheidegger & Spiess, 2019
- A topic-specific reading list will be provided depending on the destination of the excursion.

Maximum number of participants

25

Status: WS 2025/2026

Module title: Artistic Design II				**Module no.: MAR WM 22**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students have fundamental knowledge and practical skills in plastic design.
- They use technical terms and art history methods to describe and interpret three-dimensional works of art and are familiar with important examples of sculptural positions from the Stone Age to the present day.
- They work sensitively with various sculptural materials and techniques and consciously and independently implement the relationship between space, form, material, and content with regard to a contemporary theme.
- They summarize their artistic concept visually and in writing in a portfolio.
- They have learned to visually present the artistic techniques they have applied to a sculpture in front of a group.

Contents

- Systematic analysis and description of creative works.
- Use of design terminology in lectures and discussions.
- Training of spatial imagination and clarification of the relationship between form and content.
- Creative processing of a contemporary theme.
- Text analysis.
- Application of aesthetic theory to practice.
- Appropriate use of various materials and artistic processing techniques.
- Improvisation in a team.

Usability of the module		
MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Relevant for all master's degree programs in the Department of Design.

Recommended prerequisites for participation		
None		
Examination		Prerequisite for the award of ECTS
☐ Written ☐ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☐ Project presentation ☒ Portfolio incl. presentation ☐ Seminar and term paper ☐ Practical examination	Minimum grade of satisfactory
Instructor		Module coordinator
Prof. Jörg Obergfell		Prof. Jörg Obergfell
Literature/learning aids		
▪ Hajo Düchting: Fundamentals of Artistic Design – Perception, Color and Form Theory, Techniques / Deubner Verlag für Kunst, Theorie und Technik, 2003 ▪ Ulrich Klieber: Paths to the Image – A Teaching Concept for Artistic Design / 2017 ▪ Michael Schulze: Concept and Work Concept – Plastic Design in Architectural Education / VdF Hochschulverlag, 2012 ▪ Ulrich Klieber: Plastic Exercises in Artistic Teaching / Seemann, 2014 ▪ Brian O'Doherty: Inside the White Cube / Merve Verlag, 1996 ▪ Claude Lévi-Strauss: The Savage Mind / Suhrkamp Verlag, 1968 ▪ Kai Vöckler: The Architecture of Absence - On the Art of Building Ruins / Parthas, Berlin, 2009 ▪ Susan Sontag: Art and Anti-Art / Carl Hanser Verlag, 1980		
Max. participants		
20		
Status: WS 2025/2026		

Module title: Architecture and Civil Society				**Module no.: MAR WM 23**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ Every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students develop the necessary questioning, analytical, and research skills to break down a topic according to social interest groups and put it into perspective.
- Through research, specialist reading, critical analysis, and presentation, students qualify for a field of architectural sociology, human geography, urban and spatial development, or planning.
- Students learn to document complex issues, plans, and discourses and prepare them for presentation to professional audiences and civil society groups.
- Students can independently apply these analyses, methods, and communication skills to future constellations and specialist areas.

Contents

- Students gain insight into the cultural, political, economic, and social conditions and effects of architecture.
- Current issues in architectural sociology, human geography, urban and spatial planning are prepared, explored in depth, and examined in relation to specific cases.
- Methods of mapping, participatory planning, needs analysis, and historical research are taught in a project-based manner.
- Through excursions and site visits, interaction, and surveys, we conduct typological or regional inventories.

Usability of the module		
MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Relevant for all master's degree programs in the Department of Design.

Recommended prerequisites for participation

None

Examination		Prerequisite for the award of ECTS
☐ Written ☒ Oral exam ☐ Internship /laboratory work ☐ Colloquium	☒ Project presentation ☒ Portfolio incl. presentation ☒ Seminar paper and term paper ☐ Practical examination	Minimum grade of satisfactory Examination performance
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Dr. Susanne Bennewitz
Literature/learning aids		
▪ Bernhardt, Sabrow, Saupe: Gebaute Geschichte - Historische Authentizität im Stadtraum (Built History - Historical Authenticity in Urban Space) / Göttingen, 2017 ▪ Durth: German Architects. Biographical Interconnections 1900-1970 / Braunschweig, 1987 ▪ Eckardt, Meier: Handbook of Housing Sociology / Springer, 2021 ▪ Gleich, Amleithner: Medium Among Media - Architecture and the Production of Modern Spatial Conditions / Birkhäuser, 2023 ▪ Löw, Steets, Stoetzer: Introduction to Urban and Spatial Sociology / Opladen, ²2008 ▪ Special issues of the journal Arch+		
Max. number of participants		
15		
Status: WS 2025/2026		

Module title: Visual and Virtual Media				**Module no.: MAR WM 24**	
Module duration	Semester in which the module takes place	Frequency		Credit points (ECTS)	Weighting of the grade for the final grade
1 Semester	From the 1st semester	☐ every winter semester ☐ every summer semester ☒ as needed		6 ECTS	Based on the subject-specific study regulations
Courses/Teaching methods		Contact time	Self-study	Total workload for students	
Seminar, exercise		4 hours per week / 60 hours	120 hours	180 hours	

Competency goals (learning outcomes)

- Students develop an understanding of the interaction between visual and virtual representations (photography, rendering, montage, models, film, video games) and real architecture in terms of aesthetics, design, and use.
- Through research, specialist reading, critical analysis, and presentation, students qualify for a field of image science, media studies, design methodology, or visual urbanism.
- Students have learned to follow complex issues and theories, present them, and open them up for discussion among colleagues and experts.
- Students can independently apply the case studies to further developments in the visual environment and virtual body and spatial experiences in architectural tasks.

Contents

- Students gain insight into visual and media transformations of space and architecture. Design techniques, cultural memory and visual communication, standardization and the arbitrariness of models or examples are discussed.
- Current issues in media studies, game studies, art history, and science history are prepared, explored in depth, and examined in relation to specific cases.
- We examine spatial references, spatial experience, and architecture as quotations in computer games and investigate the mutual influences between virtual and analog 3D space, buildings, and aesthetics.

Usability of the module

MA Architecture	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry	☐ Compulsory	☒ Elective
MFA Gemstones and Jewelry (advanced training)	☐ Compulsory subject	☒ Elective
MA Interior Design	☐ Compulsory subject	☒ Elective
MA Design 3	☐ Compulsory subject	☒ Elective
MA Design 4	☐ Compulsory subject	☒ Elective
MA Fashion Design	☐ Compulsory subject	☒ Elective

Recommended degree program

Relevant for all master's degree programs in the Department of Design.

Recommended prerequisites for participation

None

Examination		Prerequisite for the award of ECTS
☐ Written exam ☒ Oral exam ☐ Internship /laboratory performance ☐ Colloquium	☒ Project presentation ☒ Portfolio incl. presentation ☒ Seminar paper and term paper ☐ Practical exam	Minimum grade of satisfactory Examination performance
Instructor		Module coordinator
Variable, instructors of the architecture program		Prof. Dr. Susanne Bennewitz
Literature/learning aids		
▪ Denkinger: The Architecture of the Real – A Plea Against the Flood of Images / Bielefeld, 2023 ▪ Gerber, Götz: Architectonics of Game Spaces - The Spatial Logic of the Virtual and Its Meaning for the Real / Bielefeld, 2019 ▪ Göttler, et.al.: Reading Room / Berlin, 2018 ▪ Locher, et.al.: Architecture Transformed: The Digital Image in Architecture 1980-2020 / Heidelberg, 2023 ▪ Feige Meireis: Aesthetics and Architecture / Bielefeld, 2024 ▪ Heinz Nierhaus: Aesthetic Orders and Politics of Living / Bielefeld, 2023		
Maximum number of participants		
15		
Status: WS 2025/2026		