

**Modulhandbuch für den Studiengang Urban Design and Sustainable Revitalization
(universitäres Profil),
Master of Science, Prüfungsordnung 2024
Inhaltsverzeichnis**

Total Account

11394 Master Thesis	2
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Mandatory Modules

14125 Design Studio Project I - Urban Design and Rehabilitation	5
14126 Design Studio Project II	7
14127 Design Studio Project III	9
14128 Fundamentals of Urban Design and Development	11

Compulsory Elective Modules

11377 History of Architecture	13
11391 Experimental Urban Design	18
11395 Town and House	20
12166 Planning in International Context	23
13657 How to Talk about Nature?	26
13739 Anthropos in the Anthropocene	28
13799 Informal Urbanism	30
13810 International Building and Planning Law	32
13812 Urban Management	34
13899 Urban Transformation / Urban Studies	36
13900 International Urban Design	41
13901 Future Landscapes	43
13904 Heritage and Transformation in Regional and Urban Studies	45
13905 Critical Urban Studies	47
14129 Landscape Architecture and Public Space Design	49
14130 Impromptu designs, Workshops and Excursions	51
14155 Mobility Planning and Climate Adaption	53
22504 Architecture, City, Space	55
25106 Conservation / Building in Existing Fabric	57
25419 Heritage Management and Management Plans	63
41102 Ecology	67
41408 Cultural Landscapes	70

Erläuterungen	73
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Module 11394 Master Thesis

assign to: Total Account

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	11394	Mandatory

Modul Title	Master Thesis
	Master-Arbeit
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Schmidt, Verena
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	30
Learning Outcome	<p>The master thesis in Urban Design – Revitalization of Historic City Districts is supposed to integrate contents of at least two components of the study programme and is to be accompanied by two professors from different Universities of the double master programme. The first supervisor (Professor) must be from the home university. The master thesis is based on applied science and experience and consists if applicable of graphics and models and scientific written explanations. The scientific written part must describe the problem, which should be solved, the goal and the status of planning and research concerning the topic. The concept or strategy of the master thesis must be described in a systematic way. The master thesis must be revisable, traceable, coherent and fulfil the scientific standards.</p> <p>The candidate demonstrates with the master thesis that he/she is scientifically competent, understands the professional knowledge of urban design, has the ability to critically apply and reflect scientific methods and findings and is able to independently design projects and therefore has acquired the fundamental professional knowledge and manual skills to enter the specialist practice.</p>
Contents	<p>The topic of the master thesis is to be defined in consultation with two professors of the master programme. The description of the topic, which must be submitted by the candidate, has to at least contain: cause and objective of the question posed, if possible location and surrounding area, methodology of the solution, scope and kind of performances at least to be effected as well as the schedule for the development. The supervising professors are generally those, who helped to define the topic.</p>

Recommended Prerequisites	none
Mandatory Prerequisites	<p>Applies to the Examination and Study Regulation of 2024:</p> <ul style="list-style-type: none"> • Students who have completed a minimum of 84 credits at the time of registration will be eligible to undertake the Master Thesis. • Students studying the double degree Master's Programme, who have completed a minimum of 60 credits, will be eligible to undertake the Master Thesis. <p>Applies to the Examination and Study Regulation of 2019:</p> <ul style="list-style-type: none"> • Students who have completed a minimum of 90 credits at the time of registration will be eligible to undertake the Master Thesis.
Forms of Teaching and Proportion	<p>Consultation - 40 hours Self organised studies - 860 hours</p>
Teaching Materials and Literature	Dependents on the topic of the project.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • Master Thesis (75%) • Defence (25%) <p>You find the formalities of the Master Thesis in the examination regulations Urban Design and Sustainable Revitalisation 2024 and in the following:</p> <ul style="list-style-type: none"> • The time limit for the Master Thesis is four months (16 weeks). • The binding dates for submission and defence are announced by the examination board. As a rule, the dates (start of work, submission of the thesis, defence) are announce at the preparatory colloquium that takes place in March or September. The Master Thesis must be submitted to the supervisor on time, in duplicate and bound (drawings reduced in size) and also as a data-based version (data carrier); models and objects must be enclosed as images. The time of submission must be documented. • Late, unexcused submission will result in the work not being recognised. • If a late submission is excusable, the defence will be postponed by one cycle to the following semester. • The thesis will be publicly exhibited by the author. • The defence and the announcement of the results of the Master Thesis are public unless the candidate raises an objection. The defence usually takes place within two months after haning in the Thesis. • The Thesis may also be recognised in the form of teamwork if the contribution of the individual candidates is clearly distinguishable and assessable on the basis of the indication of sections, page numbers or other objective criteria that allow a clear delimitation.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none

Part of the Study Programme	Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design - Revitalization of Historic City Districts / Prüfungsordnung 2019
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Submission of the thesis and presentation: The presentation is open to all employees and students of the university.
Components to be offered in the Current Semester	640212 Consultation Master Thesis - Urban Design 640290 Examination Master Thesis Urban Design

Module 14125 Design Studio Project I - Urban Design and Rehabilitation

assign to: Mandatory Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14125	Mandatory

Modul Title	Design Studio Project I - Urban Design and Rehabilitation Entwurf Projekt I - Städtebau und Stadterneuerung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Schmidt, Verena
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	12
Learning Outcome	<p>At the end of the module, students will be able to place the neighbourhood in the context of the city, define specific urban problems, and recognize inherent potentials for improving the quality of life through employing urban design tools. They will become familiar with strategies for urban rehabilitation, revitalization, and development. Additionally, students can apply practical exercises and theoretical findings to the design process.</p> <p>Students will also acquire the ability to conduct a creative urban analysis of a given study area from a morphological, historical, social, economic, and environmental perspective. They will understand multiple layers and systems of an urban structure, define the requirements and opportunities for redevelopment, understand the correlation between urban space and building typology, develop an urban design concept, and finally, be proficient in reasoning and presenting a project.</p>
Contents	<p>The project is offered in the form of a design project and is carried out in teams of 2 to 3 students. In the Project issues related to urban rehabilitation, revitalization, and development of existing building stock, as well as urban extensions and new developments in conversion areas at the neighbourhood level, are analysed and developed into a design solution. Expanding beyond specific neighbourhoods, the module explores the intricate dynamics of the city as a complex entity. It involves practicing how urban mechanisms respond to interventions in urban space, recognizing, evaluating, and harnessing these dynamics. A creative analysis of the context, is followed of conceptually and strategically work in a team within a given time and to propose an urban program. Conceptual ideas are then developed based on</p>

identified problems, qualities, and potentials, tested through alternatives, and weighed against the backdrop of conditions for city production. Depending on the specific question, the urban design concept will be developed into guidelines and strategies and finally translated into spatial solutions on both urban and architectural scales.

Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Excursion - 30 hours Study project - 4 hours per week per semester Self organised studies - 270 hours
Teaching Materials and Literature	will be announced by the
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	1. 1st interim presentation, max. 15min; 10 % 2. 2nd interim presentation, max. 15min; 20 % 3. final presentation, max. 30 min; 70 %
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Stadtplanung und Städtebau / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined in accordance with this description (e.g. for reasons of infection control), the alternatives communicated on the relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Projekt „Design Studio Project I – Urban Design and Rehabilitation“
Components to be offered in the Current Semester	No assignment

Module 14126 Design Studio Project II

assign to: Mandatory Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14126	Mandatory

Modul Title	Design Studio Project II Entwurf Projekt II
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	12
Learning Outcome	The module "Design Studio Project II" deepens the understanding of the complex challenges of urban transformation as well as the methods, instruments and procedures of urban development on the basis of its practical and research relevance. To this end, skills in communication, teamwork, independent project coordination, creativity and research-based learning are deepened and trained.
Contents	Projects are offered in the form of design projects and are carried out in teamwork. The programme director organises the respective range of projects, which are presented to the students in good time and from which they can choose. In the projects, students deepen their ability to analyse urban problems, work on them conceptually and strategically in teams within a given time frame and develop recommendations for action or planning as well as design solutions. The focus is on the design process based on current urban planning and urban development challenges, and the content of the project module is proposed by the individual Chair. The topics of the projects are orientated towards current issues and open up opportunities for cooperation with planning and/or research practice. They vary from semester to semester and deal with practical planning issues based on specific spatial examples.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Excursion - 10 hours Study project - 4 hours per week per semester

	Self organised studies - 290 hours
Teaching Materials and Literature	will be announced by the lecturers
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	1. 1st interim presentation, max. 15min; 10 % 2. 2nd interim presentation, max. 15min; 20 % 3. final presentation, max. 30 min; 70 %
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined in accordance with this description (e.g. for reasons of infection control), the alternatives communicated on the relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Projekt „Design Studio Project II“
Components to be offered in the Current Semester	No assignment

Module 14127 Design Studio Project III

assign to: Mandatory Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14127	Mandatory

Modul Title	Design Studio Project III Entwurf Studio III
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	12
Learning Outcome	The module "Design Studio Project III" deepens the understanding of the complex challenges of cities and their built environment on the basis of its practical and research relevance. Students develop the ability to apply innovative and context-sensitive architectural solutions to adapt existing environments to today's needs and to ensure integration that respects and enhances the cultural significance of the context. To this end, skills in communication, teamwork, independent project coordination, creativity and research-based learning are deepened and trained.
Contents	The projects are offered as design projects and are carried out in teamwork. The Director of Studies organises the respective project offer, which is presented to the students in good time and from which they can choose. In the projects, students deepen their ability to analyse urban design problems in existing neighbourhoods, to work on them conceptually in a team within a given time frame and to develop possible design solutions. The focus is on the design process based on current urban planning challenges, with the content of the module being proposed by the individual subject areas. The topics of the projects are orientated towards current issues and open up opportunities for cooperation with practice. They vary from semester to semester and deal with urban planning and architectural issues based on specific spatial tasks.
Recommended Prerequisites	none
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Excursion - 10 hours Study project - 4 hours per week per semester Self organised studies - 290 hours
Teaching Materials and Literature	will be announced by the lecturers
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	1. 1st interim presentation, max. 15min; 10 % 2. 2nd interim presentation, max. 15min; 20 % 3. final presentation, max. 30 min; 70 %
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined in accordance with this description (e.g. for reasons of infection control), the alternatives communicated on the relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Projekt „Design Studio Project III“
Components to be offered in the Current Semester	No assignment

Module 14128 Fundamentals of Urban Design and Development

assign to: Mandatory Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14128	Mandatory

Modul Title	Fundamentals of Urban Design and Development Grundlagen des Städtebaus und der Stadtentwicklung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	Students will gain a broad understanding of key concepts in urban design, landscape architecture and urban planning. They will cultivate their perspective on sustainable urban development and the integration of historic or existing neighbourhoods into a larger framework of urban development. By the end of the module, students are expected to demonstrate an increased awareness of fundamental principles, critical thinking skills and the ability to apply theoretical knowledge to real world scenarios, promoting a holistic approach to urban design.
Contents	This module will feature a dynamic range of lectures and accompanying tutorials delivered by the Chair Städtebau und Etnwerfen, Landschaftsarchitektur, Urban Design and Urban Studies and Stadtplanung, each specializing in various facets of urban design, development, and architecture in a existing context. Topics covered will include urban design and planning principles, sustainable revitalization, open space design and development strategies, as well as the intricate relationship between contemporary architecture and historical contexts. The diverse perspectives presented in the lectures will enrich students' understanding of urban design, providing a well-rounded education. Through this mandatory module, students will be enabled to critically analyse and contribute to the dynamic field of urban design and sustainable revitalization.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester

	Exercise - 1 hours per week per semester Self organised studies - 135 hours
Teaching Materials and Literature	will be announced by the lecturers
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	4 exercises each 25%
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Stadtplanung und Städtebau / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined in accordance with this description (e.g. for reasons of infection control), the alternatives communicated on the relevant platforms (e.g. homepage or Moodle) apply.
Module Components	lecture/exercise Fundamentals of Urban Design and Development
Components to be offered in the Current Semester	No assignment

Module 11377 History of Architecture

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	11377	Compulsory elective

Modul Title	History of Architecture Geschichte der Architektur
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr.-Ing. habil. Druzynski von Boetticher, Alexandra
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<ul style="list-style-type: none"> • Ability to describe, classify and assess historic architectural monuments. • Ability to analyse historical architecture
Contents	<ul style="list-style-type: none"> • Introduction to the history of architecture • The lectures on the "History of Architecture" explain the historical evolution of architecture/architectural styles based on examples of buildings from different time periods and from various countries. • Examples will focus on European architecture with a comparative view to buildings from countries outside of Europe. • Workshops to train the analysis of historical buildings
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Study project - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	The bibliography will be presented in class.
Module Examination	Prerequisite + Final Module Examination (MAP)
Assessment Mode for Module Examination	<u>Prerequisite:</u> Sucessful Presentation <u>Final Module Examination:</u> Written Examination (90 Min.)

Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2008 Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2019 Bachelor (universitär) / Angewandte Naturwissenschaften / Prüfungsordnung 2024 Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) - Doppelabschluss / Architektur / Prüfungsordnung 2022 Master (universitär) / Artificial Intelligence / Prüfungsordnung 2022 Abschluss im Ausland / Bauingenieurwesen / keine Prüfungsordnung Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2017 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, praxisintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Bachelor (fachhochschulisch) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2024 Master (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2019 Bachelor (universitär) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2024 Bachelor (fachhochschulisch) / Biotechnologie / Prüfungsordnung 2018 Master (fachhochschulisch) / Biotechnology / Prüfungsordnung 2018 Master (fachhochschulisch) - erweiterte Fachsemester / Biotechnology / Prüfungsordnung 2018 Master (universitär) / Cyber Security / Prüfungsordnung 2017 Bachelor (universitär) / Digitale Gesellschaft / Prüfungsordnung 2022 Bachelor (universitär) / eBusiness / Prüfungsordnung 2007 Master (universitär) / eBusiness / Prüfungsordnung 2007 Bachelor (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2014 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2019 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2022 Master (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018 Master (fachhochschulisch) - erweiterte Fachsemester / Elektrotechnik / Prüfungsordnung 2018 Master (universitär) / Elektrotechnik / Prüfungsordnung 2014 Master (universitär) / Elektrotechnik / Prüfungsordnung 2019 Master (universitär) / Elektrotechnik / Prüfungsordnung 2023</p>

Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Elektrotechnik - dual / Prüfungsordnung 2018
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2022
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2022
Bachelor (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Master (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Bachelor (fachhochschulisch) / Hebammenwissenschaft /
Prüfungsordnung 2021
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Hebammenwissenschaft / Prüfungsordnung
2021
Master (universitär) / Hybrid Electric Propulsion Technology /
Prüfungsordnung 2024
Bachelor (universitär) / Informatik / Prüfungsordnung 2008
Master (universitär) / Informatik / Prüfungsordnung 2008
Bachelor (universitär) / Informations- und Medientechnik /
Prüfungsordnung 2017
Bachelor (fachhochschulisch) / Instrumental- und Gesangspädagogik /
Prüfungsordnung 2019
Bachelor (universitär) / Künstliche Intelligenz / Prüfungsordnung 2022
Bachelor (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022
Master (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022
Bachelor (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2017
Master (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2018
LA Bachelor Grundstufe/Primarstufe / Lehramt Primarstufe /
Prüfungsordnung 2023
Master (universitär) / Leichtbau und Werkstofftechnologie /
Prüfungsordnung 2023
Master - Duales Studium, praxisintegrierend / Leichtbau und
Werkstofftechnologie - dual / Prüfungsordnung 2023
Bachelor (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2006
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2021
Master (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Maschinenbau /
Prüfungsordnung 2018
Master (universitär) / Maschinenbau / Prüfungsordnung 2006
Master (universitär) / Maschinenbau / Prüfungsordnung 2023
Master (universitär) - verringerte Fachsemester / Maschinenbau /
Prüfungsordnung 2023
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2018

Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021
Master - Duales Studium, praxisintegrierend / Maschinenbau - dual /
Prüfungsordnung 2023
Bachelor (universitär) / Materialchemie / Prüfungsordnung 2018
Master (universitär) / Materialchemie / Prüfungsordnung 2018
Bachelor (universitär) / Mathematik / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend / Mathematik
- dual / Prüfungsordnung 2023
Bachelor (universitär) / Medizininformatik / Prüfungsordnung 2016
Bachelor (universitär) / Medizintechnik / Prüfungsordnung 2022
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Medizintechnik - dual / Prüfungsordnung 2022
Master (universitär) / Micro- and Nanoelectronics / Prüfungsordnung
2024
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2017
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2020
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Pflegewissenschaft / Prüfungsordnung 2020
Master (universitär) / Physics / Prüfungsordnung 2021
Bachelor (universitär) / Physik / Prüfungsordnung 2021
Master (universitär) / Physik / Prüfungsordnung 2018
Master (universitär) / Power Engineering / Prüfungsordnung 2016
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020
Bachelor (fachhochschulisch) - Doppelabschluss / Soziale Arbeit /
Prüfungsordnung 2020
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020
Abschluss im Ausland / Stadtplanung und Städtebau / keine
Prüfungsordnung
Bachelor (fachhochschulisch) / Therapiewissenschaften /
Prüfungsordnung 2017
Master (universitär) / Transformation Studies / Prüfungsordnung 2024
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2006
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2012
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Urban Design and Sustainable Revitalization /
Prüfungsordnung 2024
Bachelor (universitär) / Wirtschaftsinformatik / Prüfungsordnung 2024
Bachelor (fachhochschulisch) / Wirtschaftsingenieurwesen /
Prüfungsordnung 2018
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2008
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2019
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2023

Master (fachhochschulisch) / Wirtschaftsingenieurwesen /
Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester /
Wirtschaftsingenieurwesen / Prüfungsordnung 2018
Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2008
Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2019
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Wirtschaftsingenieurwesen - dual /
Prüfungsordnung 2018
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2007
Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Wirtschaftsmathematik - dual / Prüfungsordnung 2023
Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung
Master (universitär) / World Heritage Studies / Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2021

Remarks In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.

Module Components Attendance in lectures and participation in the project

Components to be offered in the Current Semester No assignment

Module 11391 Experimental Urban Design

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	11391	Compulsory elective

Modul Title	Experimental Urban Design Experimenteller Städtebau
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Schmidt, Verena
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>After successful completion of the module the students (manual skills and abilities):</p> <ul style="list-style-type: none"> • know how to analyse the selected forms of the city according to plan material characterised by the relation of city and house, city and space, city and urbanity, city and infrastructure • know how to analyse the the selected area by means of images, behaviour description, script, movie etc. • are able to work with theoretical urban reflections: basics of analysing statements on the city (texts, conversations, interviews etc.), perceive and critically assess the content • are able to characterize different forms of the city and can compare and critically look at these by interpreting the different analyses • use their ability to judge as basis to develop own ideas
Contents	<p>The seminar highlights recent topics in the field of experimental urban design. Spatial, sociocultural, ecological and economic conditions are taken into account. Based on concrete urban situations and best practice projects, students are sensitized to architectural and urban planning aspects (urban structures, relationships between buildings and urban spaces, address formation, etc.). Research, analysis and design methods as well as presentation techniques are taught in exercises that build on one another. Through varied formats and media (literature, drawings, models, photographs, videos, etc.) creative processes are initiated and conceptual approaches are encouraged.</p>
Recommended Prerequisites	none
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none">• Selected literature will be provided at the beginning of the course.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none">• Submission of a project documentation with textual and pictorial explanations including scientific evidence, max. 25 A4 pages (50%)• Presentation including discussion, ca. 30 min. (50%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Bauingenieurwesen / keine Prüfungsordnung Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design - Revitalization of Historic City Districts / Prüfungsordnung 2019
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Participation at one of the seminars offered
Components to be offered in the Current Semester	No assignment

Module 11395 Town and House

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	11395	Compulsory elective

Modul Title	Town and House Stadt und Haus
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Schmidt, Verena
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>After successful completion of the module the students are able to:</p> <ul style="list-style-type: none"> analyse the interdependencies of the culture of everyday life, urban fabric and house type, write an assignment on basis of literature and on-site investigation, produce sketches (freehand), produce scale analysis plans of urban design (scale 1:5000 to 1:500), produce scale building plans with floor plan, elevation and section, including the use of interior and exterior areas (1:200 to 1:50), present addition and variation patterns on the city system as well as type versions and transformations (1:1000 to 1:50), produce concept models and scale models, orally present their work. <p>They are able to apply the following techniques target-oriented:</p> <ul style="list-style-type: none"> Comprehending inter-linked dependencies of different forms of society, culture of everyday life, architecture and city; describing the scope for negotiations between house design as constitutive building block of the city and city design as conditioning pre-setting for the house. Deriving parameters, determining the relation of house type and urban fabric, private and public space, recognising standard types, norms and its variations, transformations. Summary and presentation of the information collected by means of texts and plans. Independent analysis and interpretation of the urban fabric and its characteristics under consideration of current conditions and standards, interpretation of strategies and design conceptions of the urban design system in dialogue between house type and urban fabric, variations of house type and addition pattern. Presentation by means of plan and model.

Contents	Urban design in its dependency on the form of society and the culture of everyday life; correlations in the relationship city and house; order principles of urban design and self building processes; historical references and its consequences on the configuration of private and public space, typologies of urban building blocks, genesis of technical norms and standards; consequences of technical and constructive innovations on the urban fabric, forms of appropriation for city and house.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none"> • Selected literature will be provided at the beginning of the course.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • assignment 1: scientific writing, summarizing a paper relevant to the subject of the course (20%) • assignment 2: Presentation, 10 minutes including debate (40%) • assignment 3: Submission of a scientific paper about the case-study-based research including illustrations, front page and appendix with sources max. 15 pages A4 (40%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Bauingenieurwesen / keine Prüfungsordnung Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung Abschluss im Ausland / Stadtplanung und Städtebau / keine Prüfungsordnung Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design - Revitalization of Historic City Districts / Prüfungsordnung 2019 Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung</p>
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	<ul style="list-style-type: none"> • Seminar Urban Seminar

**Components to be offered in the
Current Semester**

No assignment

Module 12166 Planning in International Context

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	12166	Compulsory elective

Modul Title	Planning in International Context Planung im internationalen Kontext
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr. phil. Gribat, Nina
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every semester
Credits	6
Learning Outcome	<p>Our world is becoming more and more urban. Today the urban population already comprises more than fifty per cent of the world population - in 2030 it is predicted to be more than sixty per cent. The module provides insights into the main drivers of these global urbanisation processes and their accompanying phenomena as well as current challenges for sustainable urban development and will discuss and explain strategies and instruments of urban planning applicable in the different spatial contexts. Globalisation and industrialisation, urban growth and sprawl, the environmental damage done and the vulnerability to the impacts of the man-made climate change are some of the key topics to be discussed in the broader context of the goal of sustainable urban development. They will be illustrated by taking a closer look at metropolitan areas especially in the southern hemisphere, where most of the global urbanisation takes part.</p> <p>Students acquire detailed knowledge about general questions and current trends of urban planning and development related to the different elements of sustainable urban development such as urban structure, transport and mobility, resources and energy, environment and climate and the socioeconomic context. The module discusses political, economic, social and cultural trends and projections (e.g. demographic change, leisure and consumer behavior, new forms of work and employment, globalisation) and their spatial impact on the local, national and international level.</p> <p>In addition, the module enables students to realise and understand the urban dynamics and their impact on urban structures with a specific regard to existing urban structures and values of the built and non-built environment. This module will allow students:</p> <ul style="list-style-type: none"> • to identify the factors influencing urban change

- to identify the current challenges of sustainable urban development
- to analyse urban structures and functions
- to understand the concepts, analytical methods and planning tools required for sustainable urban and regional planning
- to understand the impact of urban development on heritage sites and local communities.

Contents

- Forms and processes of sustainable urban development
- Main concepts and approaches as well as methods and instruments of sustainable urban planning
- Identification of the urban/regional profiles and (environmental, physical, social, demographic, economic, cultural setting)
- Stakeholder analysis and participatory approaches to urban and regional planning
- Integrated and strategic planning and management concepts for urban areas.

The participants will contribute to the content with the analysis of sectoral approaches, integrated strategies and relevant case studies. A special focus in this field will be innovative, i.e. future- oriented planning approaches and processes which can be used as a basis for discussing expert opinions and developing concepts within the seminar.

Recommended Prerequisites

none

Mandatory Prerequisites

none

Forms of Teaching and Proportion

Lecture - 2 hours per week per semester
Seminar - 2 hours per week per semester
Self organised studies - 120 hours

Teaching Materials and Literature

Depending on the seminar topic

Module Examination

Continuous Assessment (MCA)

Assessment Mode for Module Examination

- Oral presentation of the seminar paper (50%)
- Written and graphic elaboration of the seminar paper (50%)

Evaluation of Module Examination

Performance Verification – graded

Limited Number of Participants

none

Part of the Study Programme

Abschluss im Ausland / Architektur / keine Prüfungsordnung
Master (universitär) - Doppelabschluss / Architektur / Prüfungsordnung 2022
Master (universitär) / Stadtplanung / Prüfungsordnung 2019
Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung
Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2017
Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024

Remarks

none

In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.

Module Components

- Seminar (SP/WHS M1) Urban Dynamics: Challenges of Urban Development in Megacities
- Examination (SP/WHS M1) Urban Dynamics: Challenges of Urban Development in Megacities

**Components to be offered in the
Current Semester**

640113 Lecture/Seminar
Urban and Regional Planning

Module 13657 How to Talk about Nature?

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13657	Compulsory elective

Modul Title	How to Talk about Nature? Wie über Natur sprechen?
Department	Faculty 5 - Business, Law and Social Sciences
Responsible Staff Member	Prof. Dr. rer. nat. phil. habil. Schwarz, Astrid
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	After passing the module, students understand main philosophical theories of “nature”, interrogate the concept of “nature” and expose its numerous ideological and cultural manifestations. They identify the main ethical dimensions of “nature”, and its crosscultural and political dimensions. Additionally they understand the power of narratives and storytelling to shape our environmental present and future by insight into reading, writing, and visual practices about “nature”.
Contents	<p>“How to talk about nature?” is closely linked to the question of what “nature” is, how it is construed and in which way we act with, in or against it. It is a question that is ontological and epistemological at the same time, it is about how we imagine nature “to be” and how we conceive knowledge about nature. The ideas about this entwinement are manifold over time and in space, different cultures have developed different ways of thinking and also practices of how to deal with a culture/nature distinction. Another important conceptual issue is how nature and technology are related, in contemporary debates for instance, “nature” is often identified with “environment” and as such inescapably entangled with its cultural, political, and technological context. Is the use of technology in “nature” then a threat or an opportunity to build a genuinely sustainable world?</p> <p>This module seeks to answer these and other questions, by approaching “nature” with variously grounded historical and contemporary theoretical approaches. For example, the concept of “nature” was differently interpreted in ancient times, compared to modern contemporary cultures. We will probe the different usage, the scope of historical and cross-cultural depth, the semantics, the images/ imaginaries, and finally, the logical coherence of “nature” concepts.</p>

This variety of topics means that the assigned readings will draw from a wide range of sources. With respect to handle current ecological and technocultural problems, a conscious reflection about “nature” seems to be required. Thus, the module should be also seen, in part, as a way to gain insight into contemporary reading, writing, and visual practices about “nature”.

Participation in the accompanying excursion is encouraged.

Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Seminar - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Literature and learning materials are given in the course description.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • One short essay, max 1500 words (25%) • Two reviews, each max. 2000 words (each 30%) • 2 oral (group) presentations, about 15 min OR weekly submitted written answers to one short question per week on the topical readings to be determined by the instructor (15%)
	The oral part of the examination can be done digitally or as a virtual meeting if the conditions for an examination in presence are not given.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	60
Part of the Study Programme	Master (universitär) / Environmental and Resource Management / Prüfungsordnung 2011 Master (universitär) / Environmental and Resource Management / Prüfungsordnung 2021 Master (universitär) - Doppelabschluss / Environmental and Resource Management / Prüfungsordnung 2021 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2021
Remarks	none
Module Components	<ul style="list-style-type: none"> • Seminar, lecture - 4 hours per week per semester
Components to be offered in the Current Semester	No assignment

Module 13739 Anthropos in the Anthropocene

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13739	Compulsory elective

Modul Title	Anthropos in the Anthropocene Anthropos im Anthropozän
Department	Faculty 5 - Business, Law and Social Sciences
Responsible Staff Member	Prof. Dr. rer. nat. phil. habil. Schwarz, Astrid
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	<p>As a result of taking part in this module students have</p> <ul style="list-style-type: none"> • knowledge about theories and concepts in the field of ethics and anthropology (e.g. responsibility, care, participation). <p>They are able to</p> <ul style="list-style-type: none"> • critically study nature-culture debates in different discourses, mainly in STS and anthropology, • develop a one semester study project on the basis of the acquired theories and methods, and • create and present a well documented and analytically grounded written report based on a sound research design and question.
Contents	<p>The Anthropocene is a term of the 21st century, it focuses attention on the role of humans as being virtually a natural force. When being introduced the wording was realigned according to the terminology of geology, however it became quickly adopted in a sociopolitical context and also by cultural studies. As a consequence the discourse has globally expanded and nowadays revolves around the question of the anthropos, the role of man in its environment on a global and local scale. This course offers theoretical reflections about the limits and opportunities of human action in an age, in which humans do not only encounter themselves in technical and artistic works, but also in nature. The module deals with anthropological questions and challenges a method of philosophical field work: how can technology-environment assemblages be described adequately, and how is the historical and media dimension to be included. Empirical-based models and cultural studies analysis are investigated, issues such as geoengineering, design with nature, extraction, in general</p>

environmental degradation is scrutinized. How become socio-economic and eco-cultural contexts relevant for local realities of life, how do responsibility, participation, or empowerment do play out as action guiding values in this game of transformation.
The course is organised around lectures and student's study projects; topics of the study project are chosen together and intermediate results discussed in class.

Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Literature and learning materials are given in the course description and will be announced during the first class meeting.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • project proposal, max. 3 pages (25 %) • final presentation, 5-25 min (15 %) • project report, min. 12 pages (60 %) <p>The duration of the final presentation will be announced in the first class meeting.</p>
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Master (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Master (universitär) / Stadtplanung / Prüfungsordnung 2019 Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2017 Master (universitär) / Transformation Studies / Prüfungsordnung 2024 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2021</p>
Remarks	none
Module Components	<ul style="list-style-type: none"> • Project/Seminar - 4 SWS
Components to be offered in the Current Semester	510117 Seminar Gardening the Earth - Antropos in the Anthropocene - 4 Hours per Term

Module 13799 Informal Urbanism

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13799	Compulsory elective

Modul Title	Informal Urbanism
	Informelle Stadtplanung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr. phil. Gribat, Nina
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	<ul style="list-style-type: none"> • Students gain an overview over the academic debates of informal urbanism (particularly in the Global South) and they are able to differentiate between different approaches to urban informality • Students are able to critically assess the role of planning and of planners in the context of informal urbanism • Students are able to apply critical analysis by examining context-specific manifestations of informal urbanism and interrogating multiple forms of urban production
Contents	<p>This seminar reviews key debates on informal urbanism and examines the social, economic, political, and spatial dimensions of this phenomenon. The focus is on exploring modes of urban production across different contexts, which emerge as expressions of inequality and marginalisation while simultaneously coexisting with what is known as formal planning. The aim of the course is to develop a critical understanding of informal urbanism by analysing the multiple discourses, spatial practices and materialities associated with it. Throughout the seminar, students are introduced to foundational theories and postcolonial scholarship dedicated to the critical exploration of various dimensions behind the manifestations of informal urbanisation. They will become familiar with prominent authors and theories that focus primarily on the Global South, while also delving into the growing literature devoted to forms of informal urbanism in the Global North.</p>
Recommended Prerequisites	none
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Specific literature will be provided during the seminar
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	Presentation 15 minutes (30%), written report including illustrations, 3.000 words (70%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	none
Module Components	Seminar Informal Urbanism
Components to be offered in the Current Semester	No assignment

Module 13810 International Building and Planning Law

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13810	Compulsory elective

Modul Title	International Building and Planning Law Internationales Bau- und Planungsrecht
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr.-Ing. Weyrauch, Bernhard
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Each winter semester even year
Credits	6
Learning Outcome	Foreign operations and cooperation with foreign partners and companies are increasingly gaining importance. The participants are able to become familiar with the respective national building regulations. They know the legal bases, which are relevant for their plans and drafts, to act for foreign clients. The participants gain more knowledge about the fundamental problems of international contract law.
Contents	The modul gives an insight into the international field of work of planners and architects. The focus is on the comparison of national planning laws and building regulations of different states. The students gain basic knowledge for working abroad by giving them insight into different legal systems and planning systems. They are able to handle with divergent legislation and national standards. Other topics are developments in European law as well as European directives and requirements, which are important for planning and construction.
Recommended Prerequisites	knowledge of English
Mandatory Prerequisites	No successful participation in module <i>21501 Internationales Bau- und Planungsrecht</i> .
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none"> • Specific literature • Legal texts • Current online-information • further literature recommendations at the beginning of the semester

Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none">• Lecture with poster and written statment (approx. 5 pages) (80%)• Active participation in the seminar event (20%)“
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	50
Part of the Study Programme	Master (universitär) / Architektur / Prüfungsordnung 2022 Master (universitär) - Doppelabschluss / Architektur / Prüfungsordnung 2022 Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Master (universitär) - Doppelabschluss / Urban Design - Revitalization of Historic City Districts / Prüfungsordnung 2019
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply. Attempted fraud of a (partial) service inevitably leads to Failing the entire module.
Module Components	Seminar „International Building and Planning Law“
Components to be offered in the Current Semester	No assignment

Module 13812 Urban Management

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13812	Compulsory elective

Modul Title	Urban Management
	Prozess und Steuerung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr.-Ing. Weidner, Silke
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	<p>This module puts focus on urban politics, governance, planning strategy, as well as policy field analysis. It explores the interrelationships and interdependencies of emerging governance structures as well as their rationale as regards planning, real estate economics and state/ European funding schemes. These themes are put in context of broader debates on sustainable and integrated urban development.</p> <p>After completing the module, students understand and can explain processes and actors involved in urban development. They are familiar with central definitions, concepts and institutional interrelations shaping planning policy and development processes. They have knowledge of funding instruments on different spatial policy levels and related economic preconditions. The students are able to contextualize and describe these topics in regard to current challenges and trends of planning theory and practice in regions in transition.</p>
Contents	<ul style="list-style-type: none"> • European and German policy, planning framework and strategic documents of integrated urban development • The politics of sustainability and resilience in urban development, with the focus on cities and regions • European and German cohesion and funding policy steering urban development • Research and concept design on planning topics of the future planning fields pertaining to urban development policy and urban areas undergoing structural transition
Recommended Prerequisites	none
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Seminar - 2 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	• Literature and References will be provided in the course
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	Seminar presentation, max. 20 min (30 %); paper max. 20000 characters, A4 (60 %) and active participation in lecture related exercises, (10 %) In case of fraud and plagiarism partial performances cannot be passed.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	20
Part of the Study Programme	Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	No offer in Sommersemester 2024! In case the module cannot be taught or examined according to this description (e.g. for reasons of infection control), the alternative modalities apply and will be communicated on relevant learning platforms (e.g. Moodle or department's homepage).
Module Components	Lecture, Seminar
Components to be offered in the Current Semester	No assignment

Module 13899 Urban Transformation / Urban Studies

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13899	Compulsory elective

Modul Title	Urban Transformation / Urban Studies Urban Transformation / Urban Studies
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Dr. phil. Binder, Julia
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	On special announcement
Credits	6
Learning Outcome	The module addresses questions regarding transforming planning visions that link with urban transformation. The students are asked to reflect on the disciplinary understanding to plan the cities according to the problems of the cities and to analyse urban transformation as a multidimensional spatial process.
Contents	The module focuses on planning as a system of visions and ideas. Against the backdrop of current debates regarding urban development, the students will discuss German and English papers of the 20th and 21st Century in order to reflect on the planners' key terminologies (common good, sustainability, inequality). The students will have to design their own empirical research projects that deal with questions of urban transformation.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	to be announced in the first lecture
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • Presentation, 45 min (30%) • Research paper, max. 20 DIN A4-pages without attachments (70%)
Evaluation of Module Examination	Performance Verification – graded

Limited Number of Participants	none
Part of the Study Programme	Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2008 Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2019 Bachelor (universitär) / Angewandte Naturwissenschaften / Prüfungsordnung 2024 Master (universitär) / Artificial Intelligence / Prüfungsordnung 2022 Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2017 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, praxisintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Bachelor (fachhochschulisch) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2024 Master (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2019 Bachelor (universitär) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2024 Bachelor (fachhochschulisch) / Biotechnologie / Prüfungsordnung 2018 Master (fachhochschulisch) / Biotechnology / Prüfungsordnung 2018 Master (fachhochschulisch) - erweiterte Fachsemester / Biotechnology / Prüfungsordnung 2018 Master (universitär) / Cyber Security / Prüfungsordnung 2017 Bachelor (universitär) / Digitale Gesellschaft / Prüfungsordnung 2022 Bachelor (universitär) / eBusiness / Prüfungsordnung 2007 Master (universitär) / eBusiness / Prüfungsordnung 2007 Bachelor (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2014 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2019 Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2022 Master (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018 Master (fachhochschulisch) - erweiterte Fachsemester / Elektrotechnik / Prüfungsordnung 2018 Master (universitär) / Elektrotechnik / Prüfungsordnung 2014 Master (universitär) / Elektrotechnik / Prüfungsordnung 2019 Master (universitär) / Elektrotechnik / Prüfungsordnung 2023 Bachelor (fachhochschulisch) - Duales Studium, ausbildungsintegrierend / Elektrotechnik - dual / Prüfungsordnung 2018 Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Elektrotechnik - dual / Prüfungsordnung 2018 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Elektrotechnik - dual / Prüfungsordnung 2022

Bachelor (universitär) - Duales Studium, praxisintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2022
Bachelor (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Master (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Bachelor (fachhochschulisch) / Hebammenwissenschaft /
Prüfungsordnung 2021
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Hebammenwissenschaft / Prüfungsordnung
2021
Master (universitär) / Hybrid Electric Propulsion Technology /
Prüfungsordnung 2024
Bachelor (universitär) / Informatik / Prüfungsordnung 2008
Master (universitär) / Informatik / Prüfungsordnung 2008
Bachelor (universitär) / Informations- und Medientechnik /
Prüfungsordnung 2017
Bachelor (fachhochschulisch) / Instrumental- und Gesangspädagogik /
Prüfungsordnung 2019
Bachelor (universitär) / Kultur und Technik / Prüfungsordnung 2017
Master (universitär) / Kultur und Technik / Prüfungsordnung 2017
Bachelor (universitär) / Künstliche Intelligenz / Prüfungsordnung 2022
Bachelor (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022
Master (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022
Bachelor (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2017
Master (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2018
LA Bachelor Grundstufe/Primarstufe / Lehramt Primarstufe /
Prüfungsordnung 2023
Master (universitär) / Leichtbau und Werkstofftechnologie /
Prüfungsordnung 2023
Master - Duales Studium, praxisintegrierend / Leichtbau und
Werkstofftechnologie - dual / Prüfungsordnung 2023
Bachelor (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2006
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2021
Master (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Maschinenbau /
Prüfungsordnung 2018
Master (universitär) / Maschinenbau / Prüfungsordnung 2006
Master (universitär) / Maschinenbau / Prüfungsordnung 2023
Master (universitär) - verringerte Fachsemester / Maschinenbau /
Prüfungsordnung 2023
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021

Master - Duales Studium, praxisintegrierend / Maschinenbau - dual /
Prüfungsordnung 2023
Bachelor (universitär) / Materialchemie / Prüfungsordnung 2018
Master (universitär) / Materialchemie / Prüfungsordnung 2018
Bachelor (universitär) / Mathematik / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend / Mathematik
- dual / Prüfungsordnung 2023
Bachelor (universitär) / Medizininformatik / Prüfungsordnung 2016
Bachelor (universitär) / Medizintechnik / Prüfungsordnung 2022
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Medizintechnik - dual / Prüfungsordnung 2022
Master (universitär) / Micro- and Nanoelectronics / Prüfungsordnung
2024
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2017
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2020
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Pflegewissenschaft / Prüfungsordnung 2020
Master (universitär) / Physics / Prüfungsordnung 2021
Bachelor (universitär) / Physik / Prüfungsordnung 2021
Master (universitär) / Physik / Prüfungsordnung 2018
Master (universitär) / Power Engineering / Prüfungsordnung 2016
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020
Bachelor (fachhochschulisch) - Doppelabschluss / Soziale Arbeit /
Prüfungsordnung 2020
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020
Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung
2023
Bachelor (fachhochschulisch) / Therapiewissenschaften /
Prüfungsordnung 2017
Master (universitär) / Transformation Studies / Prüfungsordnung 2024
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2006
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2012
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Urban Design and Sustainable Revitalization /
Prüfungsordnung 2024
Bachelor (universitär) / Wirtschaftsinformatik / Prüfungsordnung 2024
Bachelor (fachhochschulisch) / Wirtschaftsingenieurwesen /
Prüfungsordnung 2018
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2008
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2019
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung
2023
Master (fachhochschulisch) / Wirtschaftsingenieurwesen /
Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester /
Wirtschaftsingenieurwesen / Prüfungsordnung 2018

Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2008
 Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2019
 Bachelor (fachhochschulisch) - Duales Studium, ausbildungsintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2018
 Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2018
 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
 Bachelor (universitär) - Duales Studium, praxisintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
 Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2007
 Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2023
 Bachelor (universitär) - Duales Studium, praxisintegrierend / Wirtschaftsmathematik - dual / Prüfungsordnung 2023

Remarks	none
Module Components	Seminar
Components to be offered in the Current Semester	643104 Seminar Introduction to Smart Cities - 4 Hours per Term

Module 13900 International Urban Design

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13900	Compulsory elective

Modul Title	International Urban Design Internationaler Städtebau
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Schmidt, Verena
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	On special announcement
Credits	6
Learning Outcome	The learning objectives of this seminar are the understanding and the ability to classify global and local guiding principles of urban development and their goals (e.g. NUA, SDG11, Leipzig Charter), and to learn methods for impact-oriented implementation in the context of general processes of urban development.
Contents	In this seminar, students will investigate: (a) topics of selected guiding principles of global and local guiding principles of urban development (CO2, inclusion, living city), b) comparative analysis of implementation policies and processes in an international context and c) critical analysis of implementation approaches based on case studies.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none"> • Read et al.(ed.) 2005: Future City • Loeckx et al. (eds) 2004: Urban Trialogues - visions, projects coproductions • Mohsen Mostafavy (ed.) 2010: Urban Ecology, Lars Mueller Publishers • OSA 2010: Human settlements - formulations and (re-)calibrations. Sun Academia
Module Examination	Continuous Assessment (MCA)

Assessment Mode for Module Examination	<ul style="list-style-type: none">• presentation of a graphic and textual analysis (max. 30 min, 50%),• seminar paper (max. 2000 words, 50%)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	Just in case that the module can't be taught as described, all relevant information will be communicated via the existing communication platforms (Homepage, Moodle).
Module Components	Seminar
Components to be offered in the Current Semester	No assignment

Module 13901 Future Landscapes

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13901	Compulsory elective

Modul Title	Future Landscapes Zukunft Landschaft
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	On special announcement
Credits	6
Learning Outcome	After participation, students are able to systemically analyse the genesis and meaning of landscapes and to examine and design them in different development scenarios.
Contents	<ul style="list-style-type: none"> -Consideration of the natural, spatial, social and material components and processes of the landscape, as well as the economic and cultural framework conditions. - Landscape mapping as a method of analysis. - Transformation strategies for landscapes. - Antropocene landscape narratives. - Climate adaptation strategies and green infrastructure. - Nature-based design strategies. - In-depth examination of current themes in landscape development (research-based learning).
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 2 hours per week per semester Excursion - 10 hours Consultation - 2 hours per week per semester Self organised studies - 110 hours
Teaching Materials and Literature	Literature references will be announced in the course
Module Examination	Continuous Assessment (MCA)

Assessment Mode for Module Examination	Seminar - written assignment or oral presentation: 30% Project - Analysis and Mapping: 20% Project - Concept and Design: 50% At the beginning of the course the above mentioned formats will be detailed in terms of content, extent and deadlines.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined according to this description (e.g. for reasons of infection control), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Participation in the seminar and project, sitevisit and travel and a day excursion
Components to be offered in the Current Semester	No assignment

Module 13904 Heritage and Transformation in Regional and Urban Studies

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13904	Compulsory elective

Modul Title	Heritage and Transformation in Regional and Urban Studies Kulturerbe und Transformation in der Regional- und Stadtforschung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr. rer. pol. Gailing, Ludger
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	<p>The aims of this module are:</p> <ul style="list-style-type: none"> • To understand regional and urban transformation processes and controversies around heritage in terms of e.g. spatial planning, governance and politics, built environment, socio-cultural, architectural traditions in the context of transformation processes. • To develop knowledge of the interfaces between heritage studies and regional and urban studies. • To critically interrogate “heritage” as a concept and its position in regional and urban development, grasping the interplay between material, cultural, economic and political dimensions in the making of regions and cities around the world
Contents	<p>Heritage is central to contemporary towns, cities and regions today. From industrial sites, through ancient ruins, to festivals heritage can be understood in terms of constituent elements of a city or region or it can be used more expansively to the city/ region in general as a spatial-cultural quality of e.g. an urban centre or regional landscape. Urban/ landscape heritage is central to policy, planning and politics, becoming embroiled in approaches to and conflicts over urbanisation, deindustrialisation, tourism, social and cultural identities and urban/ regional democracy. This module examines the spatial politics and geographies of heritage from regional and urban perspectives in the context of transformation processes. We consider how heritage can become central to overlapping discourses on these transformation processes as well as on identities, built environment, urban/ regional</p>

history and plans for the future of towns, cities and regions. We consider how heritage can contribute to spatial inequalities and conflicts over public space, identity, community and economic development. We engage critically with concepts of urban and regional heritage from their emergence in mid-20th century Europe. Empirically, we focus on diverse global contexts, in both the Global North (e.g. Western Europe, post-socialist countries) and South (Africa, Asia).

Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	The bibliography will be presented in class.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none"> • 20% Presentation (15 minutes per student) • 80% Research paper (3000-3500 words including references)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung</p> <p>Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023</p> <p>Master (universitär) / Transformation Studies / Prüfungsordnung 2024</p> <p>Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024</p> <p>Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung</p> <p>Master (universitär) / World Heritage Studies / Prüfungsordnung 2008</p> <p>Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2021</p>
Remarks	none
Module Components	<i>Seminar Heritage and Transformation in Regional and Urban Studies</i>
Components to be offered in the Current Semester	640603 Seminar Heritage and Transformation in Regional and Urban Studies - 4 Hours per Term

Module 13905 Critical Urban Studies

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	13905	Compulsory elective

Modul Title	Critical Urban Studies Kritische Stadtforschung
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Dr. phil. Binder, Julia Prof. Dr. phil. Gribat, Nina
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	On special announcement
Credits	6
Learning Outcome	<p>In this Masters seminar, students are introduced to the interdisciplinary field of critical urban studies – a distinct strand within urban studies which foregrounds questions of power relations and social injustice in the research and planning of cities. Originally coming out of post-Marxist theory and urban political economy, critical urban studies has expanded to focus on hegemonic urban development policies, infrastructural networks of urban centers, emancipatory forms of urbanism, and the dialectical relationship between capitalism, the environment, and social transformations.</p> <p>Students will gain an introduction to foundational theories and case-studies in this field, familiarising themselves with key authors and theories of the 20th and 21st century. Moreover, through an investigation of specific empirical examples, students will understand how such a theoretical perspective shapes ongoing urban research and planning practices.</p> <p>The course will strengthen students' reading and writing skills, helping them to further improve their understanding of argumentation, evidence, and the practice of theory-building and its application.</p>
Contents	<ul style="list-style-type: none"> • Foundational theories of critical urban studies • Investigation of empirical case-studies • Methodologies
Recommended Prerequisites	none
Mandatory Prerequisites	none

Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Brenner, Neil; Marcuse, Peter; Mayer, Margit. 2012. <i>Cities for People, Not for Profit: Critical Urban Theory and the Right to the City</i> . London, New York. Routledge. Jayne, Mark; Ward, Kevin. 2017. <i>Urban Theory: New Critical Perspectives</i> . London, New York. Routledge. Lefebvre, Henri. 1996. <i>Writings on Cities</i> . Edited by Eleonore Kofman and Elizabeth Lebas. 1st edition. Cambridge, Mass, USA: Wiley-Blackwell. Merrifield, Andrew. 2002. <i>Metromarxism: A Marxist Tale of the City</i> . New York: Taylor & Francis Ltd. Harvey, David. 2012. <i>Rebel Cities: From the Right to the City to the Urban Revolution 1st</i> . n.d. Smith, Neil. 2010. <i>Uneven Development: Nature, Capital, And The Production Of Space</i> . 3rd ed. London New York: Verso Books. Further literature will be provided during the seminar.
Module Examination	Final Module Examination (MAP)
Assessment Mode for Module Examination	Written paper (max. 3.000 words)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	15
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2023 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	Just in case that the module can't be taught as described, all relevant information will be communicated via the existing communication platforms (Homepage, Moodle).
Module Components	Seminar <i>Critical Urban Studies</i>
Components to be offered in the Current Semester	No assignment

Module 14129 Landscape Architecture and Public Space Design

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14129	Compulsory elective

Modul Title	Landscape Architecture and Public Space Design Landschaftsarchitektur und Gestaltung öffentlicher Räume
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	At the end of the module the student are able to: <ul style="list-style-type: none"> • survey of several existent open space projects on urban site • research of literature as well as research on-site • write a report including analysis maps (topic dependent: scale 1:1000 - 1:200), describe graphics and photos • hold oral presentation, comparative discussion • interpret and abstract analysis results in terms of open space instruments and superior design aspects • apply acquired repertoire to one or several conceptual design situations
Contents	<ul style="list-style-type: none"> • Analytical exposure to landscape architecture in the context of existent built structures • Survey of design instruments and qualities of precise objects • Aim-oriented examination of deficiencies and potentials as well as the social, historical or cultural background of the project • Appropriate development of ideas for specific situations in different scales • Implementation in an adequate illustration
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Study project - 4 hours Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none"> • Curdes, Gerhard: Stadtstrukturelles Entwerfen, Stuttgart 1994

- Ermer, Klaus; Hoff, Renate; Mohrmann, Rita: Landschaftsplanung in der Stadt, Stuttgart 1996
- Loidl, Hans; Bernard, Stefan: Freiraumgestaltung, ...2004
- Mader, Günter; Neubert-Mader, Laila: Bäume, Gestaltungsmittel in Garten, Landschaft und Städtebau, Stuttgart 1996
- Mader, Günter: Freiraumplanung, Hausgärten, Grünanlagen, Stadtlandschaften, München 2004
- Norberg-Schulz, Christian: Genius Loci, Stuttgart 1982
- Treib, Marc: Modern Landscape Architecture, Cambridge MA, 1993
- Städtebauliches Institut Stuttgart: Lehrbausteine Städtebau, Stuttgart, 2001
- Valena, Tomás: Beziehungen – über den Ortsbezug der Architektur, Berlin 1994
- Quod vide monographs and edited volumes to contemporary works by international landscape architects, chair library, bibliography and professional journals

Module Examination

Continuous Assessment (MCA)

Assessment Mode for Module Examination

- assignment 1: analysis, presentation and discussion
theme: description of one typology of urban open spaces (20 %)
slides presentation with images, text and documents, 10 minutes including debate and reader in qualified layout.
- assignment 2: graphic analysis and urban mapping - presentation and discussion
theme: analysis of an open urban space within the urban design project – urban mapping (30 %)
presentation with drawings, collages, sketches, 10 minutes, including debate
- assignment 3: design and development of an urban open space, presentation and discussion, in cooperation with the urban design project (50 %)
presentation with drawings 10 minutes, including debate

Evaluation of Module Examination

Performance Verification – graded

Limited Number of Participants

none

Part of the Study Programme

Abschluss im Ausland / Stadtplanung und Städtebau / keine Prüfungsordnung
Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024

Remarks

none

Module Components

Study project

Components to be offered in the Current Semester

No assignment

Module 14130 Impromptu designs, Workshops and Excursions

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14130	Compulsory elective

Modul Title	Impromptu designs, Workshops and Excursions Stegreife, Workshops and Exkursionen
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dipl.-Ing. Lundqvist, Anna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every semester
Credits	6
Learning Outcome	<p>Impromptu Design and Workshop: After successfully completing the module, students will be able to find solutions to specific urban problems within a limited time frame and implement these in a design format. They will be able to identify key challenges and potentials, formulate design ideas, and develop them into spatial designs in a targeted and efficient manner.</p> <p>Excursion: Students will develop the ability to identify urban problems and potentials of a given site, evaluate the existing conditions, and critically analyse implemented projects. They will also gain the skill to prepare structured reports of their visit following academic formats</p>
Contents	<p>Impromptu Design and Workshop: Each impromptu or workshop should address one of the focal points of the Master Programme in Urban Design and Sustainable Revitalization. Students will be asked to critically analyze the site and propose design solutions depending on the workshop topic.</p> <p>Excursion: Each excursion includes a visit to a site or a project addressing one of the focal points of the Master Programme in Urban Design and Sustainable Revitalization. Students will be asked to conduct a preparatory task prior to the excursion, critically analyse the site during the excursion, and finally, prepare a well-structured report about their experience..</p>
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Exercise - 2 hours per week per semester

	Excursion - 2 hours per week per semester Short term design project - 2 hours per week per semester Self organised studies - 90 hours
Teaching Materials and Literature	will be announced by the lecturers
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<p>In order for the module to be recognised, a total of three courses and/ or workshops or an excursion must be demonstrated and recognised. The weighting for the module grade is 1/3 each. A maximum of two impromptu courses and/or workshops may be taken in the same department/professorship</p> <p>Impromptu/workshop: The work to be completed for each impromptu or workshop is determined by the respective lecturer at the beginning and may include in particular preparation of plans, construction of a model, written elaboration, presentation of the design or concept, structural realisation of an object, intervention in urban space.</p> <p>Excursion: Excursion report (content-related preparation and follow-up) (50%); participation in the excursion including thematic contributions on site or as part of an accompanying seminar (presentation approx. 15 min) (50%)</p>
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the event that the module cannot be taught or examined in accordance with this description (e.g. for reasons of infection control), the alternatives communicated on the relevant platforms (e.g. homepage or Moodle) apply.
Module Components	<ul style="list-style-type: none">• Impromptu Design• Workshop• Excursion
Components to be offered in the Current Semester	No assignment

Module 14155 Mobility Planning and Climate Adaption

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	14155	Compulsory elective

Modul Title	Mobility Planning and Climate Adaption Mobilitätsplanung und Klimaadaption
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr.-Ing. Eisenmann, Christine
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Each winter semester odd year
Credits	6
Learning Outcome	This module „Mobility Planning and Climate Adaption“ focuses on imparting knowledge of the planning field of mobility and transport. After completing the module, students will be able to understand the fundamentals, instruments, procedures, methods and players in mobility and transport planning in Germany and the respective current challenges of climate protection and climate adaptation as well as solution approaches.
Contents	The module „Mobility Planning and Climate Adaption“ provides an overview of mobility planning in Germany and the current and future challenges and tasks in mobility planning resulting from climate protection and climate adaptation. <ul style="list-style-type: none"> • Targets of mobility planning with regard to climate protection and climate adaptation • Properties and development of transport supply and transport demand • Transport impacts (particularly in relation to the environment and climate) • Climate adaption and road space design (including a focus on public transport, cycling and walking) • Methods for analysing and evaluating sustainability, economic efficiency and environmental compatibility of transport systems
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester

	Self organised studies - 120 hours
Teaching Materials and Literature	<ul style="list-style-type: none">• Gertz, C. (2019). Verkehrsplanung. In: Zilch, K., <i>et al.</i> Handbuch für Bauingenieure. Handbuch für Bauingenieure. Springer Vieweg, Wiesbaden. https://doi.org/10.1007.• Becker UJ (2016) Grundwissen Verkehrsökologie. Grundlagen, Handlungsfelder und Maßnahmen für die Verkehrswende. München.• Forschungsgesellschaft für Straßen- und Verkehrswesen (2006): Richtlinien für die Anlage von Stadtstraßen. Köln.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	<ul style="list-style-type: none">• Completion of 2 exercises on topics related to Mobility planning and climate adaptation (40% weighting for module grade)• Oral examination, 20 min (60% weighting for module grade)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Remarks	In the case that the module cannot be taught or examined according to the existing module description (e.g. for reasons of infection protection), alternatives will apply as communicated on the relevant platforms (e.g. homepage or Moodle).
Module Components	Seminar
Components to be offered in the Current Semester	No assignment

Module 22504 Architecture, City, Space

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	22504	Compulsory elective

Modul Title	Architecture, City, Space Architektur, Stadt, Raum
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Pedersen, Per
Language of Teaching / Examination	English
Duration	2 semesters
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	This module is aimed to generate a basic understanding of the complexity of architecture, space and urban planning in relation to world heritage sites. A first insight into a wide range of different architectural and urban design topics is meant to enable students to an initial understanding and judgement of architectural and urban environments.
Contents	The module is on the one hand focused on the imparting of basic structural and construction related knowledge as well as a first approach to architectural tools and media and the basic understanding of architectural, urban and spatial concepts. It furthermore deals with the application and deepening of the gained knowledge. With the help of examples architectural, spatial and urban design concepts will be analysed with regard to their design determining factors and conceptional and spatial qualities. The result will be a first valuation of the examined concepts.
Recommended Prerequisites	none
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Seminar - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Topic related references
Module Examination	Prerequisite + Final Module Examination (MAP)
Assessment Mode for Module Examination	Prerequisite: • Seminar presentation (ca. 15 min) with following discussion

	Final modul examination: <ul style="list-style-type: none">• Written essay with graphical components <p>The form of the written essay will be determined in the first lecture.</p>
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung Master (universitär) / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2021
Remarks	In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.
Module Components	Seminar Architecture City Space. Whose architecture? Whose City?
Components to be offered in the Current Semester	610315 Seminar Architecture, City, Space - 4 Hours per Term

Module 25106 Conservation / Building in Existing Fabric

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	25106	Compulsory elective

Modul Title	Conservation / Building in Existing Fabric
	Rekonstruktion und Erhaltungsarbeiten / Neubau im Bestand
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Prof. Dr. phil. habil. Blokker, Johanna
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	Upon completion of the module, students are able to understand key aspects of the history and theory of architectural conservation and heritage, including its conceptual foundations and core issues, and can apply this knowledge to unfamiliar situations across a range of temporal and cultural contexts. They are able to evaluate the role played by historic buildings and ensembles as well as other tangible and intangible artefacts of the past in social, political and cultural processes both past and present. They can create strategies for assessing the significance of buildings, ensembles and artefacts, for conserving their tangible and intangible values, and for communicating knowledge about them both to specialists from neighbouring fields and to a wider public.
Contents	The history and theory of architectural conservation from Antiquity to the present as well as the development of the concept of heritage in the 20 th and 21 st centuries constitute the primary focus of the module. The role played by historic buildings, ensembles and sites as well as other tangible and intangible artefacts of the past in social, political and cultural processes is discussed. Contemporary international discourses on significance are introduced together with methods for its assessment, preservation and communication that draw on a range of approaches from the humanities and the social sciences. Current challenges in conservation practice such as the management of change are examined in relation to developments in the fields of architectural design and urban planning and against the background of growing concerns for environmental protection and human rights
Recommended Prerequisites	none

Mandatory Prerequisites	No double occupancy with Module 13676 - <i>Denkmalpflege</i> .
Forms of Teaching and Proportion	Lecture - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	A list of current and relevant literature is provided in the lecture at the beginning of the semester.
Module Examination	Final Module Examination (MAP)
Assessment Mode for Module Examination	Written examination, graded – 90 mins
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2008 Master (universitär) / Angewandte Mathematik / Prüfungsordnung 2019 Bachelor (universitär) / Angewandte Naturwissenschaften / Prüfungsordnung 2024 Abschluss im Ausland / Architektur / keine Prüfungsordnung Bachelor (universitär) / Architektur / Prüfungsordnung 2014 Bachelor (universitär) - Doppelabschluss / Architektur / Prüfungsordnung 2014 Master (universitär) - Doppelabschluss / Architektur / Prüfungsordnung 2022 Master (universitär) / Artificial Intelligence / Prüfungsordnung 2022 Abschluss im Ausland / Bauingenieurwesen / keine Prüfungsordnung Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2017 Bachelor (universitär) / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - erweiterte Fachsemester / Bauingenieurwesen / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2017 Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Bachelor (universitär) - Duales Studium, praxisintegrierend / Bauingenieurwesen - dual / Prüfungsordnung 2022 Abschluss im Ausland / Betriebswirtschaftslehre / keine Prüfungsordnung Bachelor (fachhochschulisch) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2024 Master (universitär) / Betriebswirtschaftslehre / Prüfungsordnung 2017 Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2019 Bachelor (universitär) - Duales Studium, praxisintegrierend / Betriebswirtschaftslehre - dual / Prüfungsordnung 2024 Bachelor (fachhochschulisch) / Biotechnologie / Prüfungsordnung 2018</p>

Master (fachhochschulisch) / Biotechnology / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Biotechnology /
Prüfungsordnung 2018
Master (universitär) / Cyber Security / Prüfungsordnung 2017
Bachelor (universitär) / Digitale Gesellschaft / Prüfungsordnung 2022
Bachelor (universitär) / eBusiness / Prüfungsordnung 2007
Master (universitär) / eBusiness / Prüfungsordnung 2007
Bachelor (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018
Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2014
Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2019
Bachelor (universitär) / Elektrotechnik / Prüfungsordnung 2022
Master (fachhochschulisch) / Elektrotechnik / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Elektrotechnik /
Prüfungsordnung 2018
Master (universitär) / Elektrotechnik / Prüfungsordnung 2014
Master (universitär) / Elektrotechnik / Prüfungsordnung 2019
Master (universitär) / Elektrotechnik / Prüfungsordnung 2023
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Elektrotechnik - dual / Prüfungsordnung 2018
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2022
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Elektrotechnik - dual / Prüfungsordnung 2022
Bachelor (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Master (universitär) / Energietechnik und Energiewirtschaft /
Prüfungsordnung 2021
Abschluss im Ausland / Environmental and Resource Management /
keine Prüfungsordnung
Bachelor (fachhochschulisch) / Hebammenwissenschaft /
Prüfungsordnung 2021
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Hebammenwissenschaft / Prüfungsordnung
2021
Master (universitär) / Hybrid Electric Propulsion Technology /
Prüfungsordnung 2024
Bachelor (universitär) / Informatik / Prüfungsordnung 2008
Master (universitär) / Informatik / Prüfungsordnung 2008
Bachelor (universitär) / Informations- und Medientechnik /
Prüfungsordnung 2017
Bachelor (fachhochschulisch) / Instrumental- und Gesangspädagogik /
Prüfungsordnung 2019
Master (universitär) / Klimagerechtes Bauen und Betreiben /
Prüfungsordnung 2018
Bachelor (universitär) / Kultur und Technik / Prüfungsordnung 2017
Master (universitär) / Kultur und Technik / Prüfungsordnung 2017
Bachelor (universitär) / Künstliche Intelligenz / Prüfungsordnung 2022
Bachelor (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022
Master (universitär) / Künstliche Intelligenz Technologie /
Prüfungsordnung 2022

Bachelor (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2017
Master (universitär) / Landnutzung und Wasserbewirtschaftung /
Prüfungsordnung 2018
LA Bachelor Grundstufe/Primarstufe / Lehramt Primarstufe /
Prüfungsordnung 2023
Master (universitär) / Leichtbau und Werkstofftechnologie /
Prüfungsordnung 2023
Master - Duales Studium, praxisintegrierend / Leichtbau und
Werkstofftechnologie - dual / Prüfungsordnung 2023
Bachelor (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2006
Bachelor (universitär) / Maschinenbau / Prüfungsordnung 2021
Master (fachhochschulisch) / Maschinenbau / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Maschinenbau /
Prüfungsordnung 2018
Master (universitär) / Maschinenbau / Prüfungsordnung 2006
Master (universitär) / Maschinenbau / Prüfungsordnung 2023
Master (universitär) - verringerte Fachsemester / Maschinenbau /
Prüfungsordnung 2023
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Maschinenbau - dual / Prüfungsordnung 2021
Master - Duales Studium, praxisintegrierend / Maschinenbau - dual /
Prüfungsordnung 2023
Bachelor (universitär) / Materialchemie / Prüfungsordnung 2018
Master (universitär) / Materialchemie / Prüfungsordnung 2018
Bachelor (universitär) / Mathematik / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend / Mathematik
- dual / Prüfungsordnung 2023
Abschluss im Ausland / Medizininformatik / keine Prüfungsordnung
Bachelor (universitär) / Medizininformatik / Prüfungsordnung 2016
Bachelor (universitär) / Medizintechnik / Prüfungsordnung 2022
Bachelor (universitär) - Duales Studium, praxisintegrierend /
Medizintechnik - dual / Prüfungsordnung 2022
Master (universitär) / Micro- and Nanoelectronics / Prüfungsordnung
2024
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2017
Bachelor (fachhochschulisch) / Pflegewissenschaft / Prüfungsordnung
2020
Bachelor (fachhochschulisch) - Duales Studium,
ausbildungsintegrierend / Pflegewissenschaft / Prüfungsordnung 2020
Master (universitär) / Physics / Prüfungsordnung 2021
Bachelor (universitär) / Physik / Prüfungsordnung 2021
Master (universitär) / Physik / Prüfungsordnung 2018
Master (universitär) / Power Engineering / Prüfungsordnung 2016
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Bachelor (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020

Bachelor (fachhochschulisch) - Doppelabschluss / Soziale Arbeit / Prüfungsordnung 2020
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2018
Master (fachhochschulisch) / Soziale Arbeit / Prüfungsordnung 2020
Bachelor (universitär) / Städtebau und Stadtplanung / Prüfungsordnung 2019
Abschluss im Ausland / Stadtplanung und Städtebau / keine Prüfungsordnung
Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung
Bachelor (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2016
Bachelor (fachhochschulisch) / Therapiewissenschaften / Prüfungsordnung 2017
Master (universitär) / Transformation Studies / Prüfungsordnung 2024
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2006
Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2012
Master (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021
Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Master (universitär) - Doppelabschluss / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
Master (universitär) - Doppelabschluss / Urban Design - Revitalization of Historic City Districts / Prüfungsordnung 2019
Bachelor (universitär) / Wirtschaftsinformatik / Prüfungsordnung 2024
Bachelor (fachhochschulisch) / Wirtschaftsingenieurwesen / Prüfungsordnung 2018
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2008
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2019
Bachelor (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2023
Master (fachhochschulisch) / Wirtschaftsingenieurwesen / Prüfungsordnung 2018
Master (fachhochschulisch) - erweiterte Fachsemester / Wirtschaftsingenieurwesen / Prüfungsordnung 2018
Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2008
Master (universitär) / Wirtschaftsingenieurwesen / Prüfungsordnung 2019
Bachelor (fachhochschulisch) - Duales Studium, ausbildungsintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2018
Bachelor (fachhochschulisch) - Duales Studium, praxisintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2018
Bachelor (universitär) - Duales Studium, ausbildungsintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
Bachelor (universitär) - Duales Studium, praxisintegrierend / Wirtschaftsingenieurwesen - dual / Prüfungsordnung 2023
Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2007
Bachelor (universitär) / Wirtschaftsmathematik / Prüfungsordnung 2023

Bachelor (universitär) - Duales Studium, praxisintegrierend /
Wirtschaftsmathematik - dual / Prüfungsordnung 2023
Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung
Master (universitär) / World Heritage Studies / Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2021

Remarks

In the case that teaching and evaluation methods cannot take place as previously established (due to Corona or similar situations), alternative teaching formats and assessment methods will be announced on the respective homepages of the respective chair, or on the moodle platform.

In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.

Module Components

- Lecture Architectural Conservation – Heritage in Context
- Examination Architectural Conservation – Heritage in Context

**Components to be offered in the
Current Semester**

No assignment

Module 25419 Heritage Management and Management Plans

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	25419	Compulsory elective

Modul Title	Heritage Management and Management Plans Erbe - Management und Management - Pläne
Department	Faculty 6 - Architecture, Civil Engineering and Urban Planning
Responsible Staff Member	Dr. phil. Rudolff, Britta
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>Rationale: Successful management is the basis for the sustainable use and preservation of World Heritage Sites. This module provides students with the necessary tools to develop strategic management frameworks and management plans for World Heritage Sites as well as other places of cultural and/or natural significance.</p> <p>Part 1: Lecture/Seminar: Introduction to World Heritage Management The first part of this module provides a basic introduction to strategies in heritage management and familiarizes students with key terms and processes for the management of both cultural and natural heritage sites. The module aims to enable students to competently participate in professional debates on management planning and understand the necessary requirements of World Heritage Site Management. It further introduces the latest developments in international guidelines and recommendations for heritage management processes.</p> <p>Part 2: Lecture/Seminar: World Heritage Management Plans This second component introduces to strategic and project management processes in Management planning for World Heritage sites and outlines the requirements for World Heritage Management Plans. It also gives students the opportunity to consider heritage management for specific case studies and reflect on the steps necessary for the preparation and implementation of management strategies and actions. Students will be enabled to understand and analyze decision-making processes required to arrive at strategic management objectives and action plans for specific heritage sites and review existing management plans to evaluate their capacity to guide successful site management.</p>

Contents

Part 1: Lecture/Seminar: Introduction to World Heritage Management

In two separate segments this first part of the modules introduces to basic terminologies in the management of cultural and natural World Heritage sites.

- Natural Heritage Management: The introduction to natural heritage management is focused on basic requirements in the management of World Heritage Sites, planning processes, financial and human resources, sustainable use and benefit sharing, tourism management, as well as monitoring and reporting procedures.
- Cultural Heritage management: The cultural heritage component considers planning and management processes for cultural heritage sites including development planning in urban and land-use schemes, conservation management, participatory decision-making, visitor management, risk prepared as well as monitoring and reporting.

Part 2: Lecture/Seminar: World Heritage Management Plans

The second is focused providing a theoretical overview of the different steps and components required to draft management planning tools for World Heritage Sites. Based on strategic management frameworks, concepts of vision, mission, objectives, strategies, policies and action plans are introduced and developed for World Heritage Management planning. Successively, the course will consider the potentials of different approaches to successful site management based on outlines and formats suggested in the available reading materials as well as an analysis of different existing management plans. Specific emphasis is also given to development of monitoring indicators to enable quality assessments for site management factors and management plan implementation.

Recommended Prerequisites

none

Mandatory Prerequisites

none

Forms of Teaching and Proportion

Lecture - 2 hours per week per semester
Seminar - 2 hours per week per semester
Self organised studies - 120 hours

Teaching Materials and Literature

- UNESCO World Heritage Centre: Managing Historic Cites, in World Heritage Papers, vol. 27, 2010, Paris: UNESCO.
- UNESCO World Heritage Centre, United Nations Foundation and IUCN: Enhancing our Heritage Toolkit: Assessing management effectiveness of natural World Heritage sites, 2008, Paris: UNESCO.
- ICOMOS: Guidance on Heritage Impact Assessments for Cultural World Heritage Properties, 2011, Paris: ICOMOS
- UNESCO World Heritage Centre, ICCROM, ICOMOS and IUCN: Preparing World Heritage Nominations, World Heritage Resource Manual, 2011, Paris: UNESCO.
- UNESCO, ICCROM, ICOMOS and IUCN: Managing Natural World Heritage, World Heritage Resource Manual, 2012, Paris: UNESCO.
- Kirpati, T.H.: Management of World Heritage Sites. The Management Plan as an effective tool for the safeguarding of heritage, Saarbrücken, 2008, VDM Verlag.

- Ringbeck, Birgitta: management Plans for World Heritage Sites. A practical guide, 2008, Bonn: German UNESCO Commission.
- Henry Cleere: Archaeological Heritage Management in the Modern World, 2005, New York: Taylor and Francis
- Leask, Anna and Alan Fyall: Managing World Heritage Sites, 2006, Oxford: Butterworth-Heinemann.
- Shackley, Mira: Visitor Management: Case studies from World Heritage Sites, 2003, Oxford: Butterworth-Heinemann.
- Tourtelot, Jonathan: "Part threat, part hope: the challenge of tourism" in: World Heritage Review No. 58, p. 8-19, Feb. 2011, Paris: UNESCO Publishing.
- Dudley, Nigel: Guidelines for Applying Protected Area Management Categories, 2008, Gland: IUCN.
- UNESCO, Shell Foundation: Business Planning for Natural World Heritage Sites: A Toolkit, 2008, Paris: UNESCO
- Mitchell, Nora; Rössler, Mechtild and Pierre-Marie Tricaud: World Heritage Cultural Landscapes: a handbook for conservation and management. World Heritage Papers Series No. 26, 2009, Paris: UNESCO.
- Hockings, Marc, Stolton, Sue and Fiona Leverington et al.: Evaluating Effectiveness: A framework for Assessing Management Effectiveness of Protected Areas, 2006, Gland: IUCN.

Module Examination

Final Module Examination (MAP)

Assessment Mode for Module Examination

One integrated examination, 135 minutes (consisting of an oral group examination, 45 minutes and an individual written examination, 90 minutes).

Evaluation of Module Examination

Performance Verification – graded

Limited Number of Participants

none

Part of the Study Programme

Abschluss im Ausland / Architektur / keine Prüfungsordnung
 Abschluss im Ausland / Bauingenieurwesen / keine Prüfungsordnung
 Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung
 Master (universitär) / Stadtplanung / Prüfungsordnung 2019
 Abschluss im Ausland / Stadt- und Regionalplanung / keine Prüfungsordnung
 Master (universitär) / Stadt- und Regionalplanung / Prüfungsordnung 2017
 Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024
 Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung
 Master (universitär) / World Heritage Studies / Prüfungsordnung 2008
 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2008
 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2021

Remarks

In the event that the module cannot be taught or tested according to the present description (e.g. for reasons of infection protection), the

alternatives communicated on relevant platforms (e.g. homepage or Moodle) apply.

Module Components

- Lecture/Seminar Heritage Management Plans
- Lecture/Seminar International Standards in Heritage Management
- Examination Heritage Management and Management Plans

**Components to be offered in the
Current Semester**

No assignment

Module 41102 Ecology

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	41102	Compulsory elective

Modul Title	Ecology Ökologie
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Dr. Djoudi, El Aziz
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every summer semester
Credits	6
Learning Outcome	<p>Overall Students will be able to understand ecological principles and functioning of ecosystems and to apply them to different ecosystems. The connection between ecosystem integrity, ecosystem functions and resource management will be understood.</p> <p>Part "Terrestrial Ecology" The objective is to outline the fundamentals of ecology, including biodiversity-ecosystem function research in terrestrial ecosystems with a focus on conservation and resource management. Students will gain knowledge about biodiversity as a basic ecological concept, and will be able to understand the different dimensions of biodiversity when focusing on the protection and management of ecosystems. Students will learn about:</p> <ul style="list-style-type: none"> • Ecophysiology & Population Ecology • The different dimensions of biological diversity and their applied role in conservation and ecosystem management • The role of diversity in ecosystem stability and ecosystem functioning • The ethical and economic justifications of biodiversity protection and related management strategies <p>Part "Aquatic Ecology" Students will understand the diversity and variability of freshwater ecosystems. They will obtain knowledge on freshwater ecology, principle functioning of lakes and running waters as well as their role in biogeochemical cycling of landscapes. They will understand the connection between freshwater organisms and ecosystem services. Students will be able to apply general principles of ecology to aquatic ecosystems.</p>

Contents	<p>Part "Terrestrial Ecology"</p> <ul style="list-style-type: none"> • Definitions & measures of biodiversity • The importance of biodiversity for human well-being • Management approaches for biodiversity conservation <p>Part "Aquatic Ecology"</p> <ul style="list-style-type: none"> • Running water ecosystems: variability, characteristics and functions, connectivity, aquatic organisms, food webs, ecosystem engineers • Standing water ecosystems: genesis and typology, physical and chemical properties and biogeochemistry of water and sediment, habitats and organisms
Recommended Prerequisites	Biology, Chemistry, Statistics
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 4 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	<p>Part "Terrestrial Ecology"</p> <ul style="list-style-type: none"> • Lecture slides (in Moodle) <p>Recommended readings: Levin - Encyclopedia of Biodiversity (e-book) Jorgensen - Encyclopedia of Ecology (e-book available) Schowalter – Insect Ecology (e-book available) Coleman - Fundamentals of Soil Ecology (e-book available) Van Dyke – Conservation Biology (e-book available)</p> <p>Part "Aquatic Ecology "</p> <ul style="list-style-type: none"> • Lecture slides (in Moodle) <p>Recommended readings: Dodds, Whiles – Freshwater Ecology (e-book available)</p>
Module Examination	Final Module Examination (MAP)
Assessment Mode for Module Examination	Written exam at the end of the lecture period (120 min.) covering both parts of the module. Each part (LE Terrestrial Ecology & LE Aquatic Ecology) contributes 50% to the total number of achievable points.
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	<p>Abschluss im Ausland / Architektur / keine Prüfungsordnung Bachelor (universitär) / Energietechnik und Energiewirtschaft / Prüfungsordnung 2021</p> <p>Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung Bachelor (universitär) / Environmental and Resource Management / Prüfungsordnung 2015</p> <p>Abschluss im Ausland / Maschinenbau / keine Prüfungsordnung Bachelor (universitär) / Umweltingenieurwesen / Prüfungsordnung 2021</p>

Master (universitär) / Urban Design and Sustainable Revitalization /
Prüfungsordnung 2024
Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung
Master (universitär) / World Heritage Studies / Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2008
Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2021

Remarks

none

Module Components

- 240537 Lecture Aquatic Ecology
- 240731 Lecture Terrestrial Ecology
- 240766 Examination Ecology

**Components to be offered in the
Current Semester**

240537 Lecture
Aquatic Ecology - 2 Hours per Term
240731 Lecture
Terrestrial Ecology - 2 Hours per Term
240766 Examination
Ecology

Module 41408 Cultural Landscapes

assign to: Compulsory Elective Modules

Study programme Urban Design and Sustainable Revitalization

Degree	Module Number	Module Form
Master of Science	41408	Compulsory elective

Modul Title	Cultural Landscapes Kulturlandschaften
Department	Faculty 2 - Environment and Natural Sciences
Responsible Staff Member	Prof. Dr. Dr.h.c. (NMU, UA) Schmidt, Michael
Language of Teaching / Examination	English
Duration	1 semester
Frequency of Offer	Every winter semester
Credits	6
Learning Outcome	<p>Students will learn the main concepts of cultural landscapes and its typologies/categories, according to the Operational Guidelines for the implementation of the UNESCO World Heritage Convention. They will learn about the most significant international instruments and academic guidelines/principles for the conservation and management of cultural landscapes. Besides the international instruments, students will learn a variety of participatory and community-based methodologies, principles and approaches for the conservation and management of cultural landscapes.</p> <p>By learning these methodologies, principles and approaches, students will be able to critically analyze case studies, identify the factors affecting the dynamics of cultural landscapes, as well as use them as a tool to make recommendations for landscape resilience and sustainability. They will also be able to assess and frame the complex values of landscapes, as well as the attributes and features that define their authenticity and integrity as a basis for conservation and management of cultural landscapes.</p>
Contents	<p>The lectures will introduce the students to the key approaches and requisite tools needed for the identification, assessment, and management of cultural landscapes as “combined works of nature and men” (Operational Guideline, 2023; <i>Paragraph 47</i>, p. 22). Additionally, the diverse historical and ongoing threats to the conservation of cultural landscapes inscribed on the World Heritage List will be discussed and possible solutions will be proposed.</p>

The planned excursions will give a practical hands-on insight into the different categories of cultural landscapes. It will also help the students to link some of the academic aspects of cultural landscapes with practical examples, especially, category 1 and 2b cultural landscapes. Furthermore, the block seminar will provide students with an opportunity to examine and apply the theoretical knowledge acquired in lectures to the specific context of the self-selected case studies.

The lectures will include the following topics:

- The concept of cultural landscapes and the theoretical frameworks for understanding this category of World Heritage properties
- The categories/typologies of cultural landscapes according to the Operational Guidelines for the implementation of the World Heritage Convention
- Factors affecting cultural landscapes globally, challenges and potential recommendations
- The international instruments for the protection of cultural landscapes
- Community based management approaches, principles and participatory methodologies for cultural landscape resilience and sustainability
- Values and value assessment in the context of cultural landscapes and its typologies

Recommended Prerequisites	None
Mandatory Prerequisites	none
Forms of Teaching and Proportion	Lecture - 2 hours per week per semester Seminar - 1 hours per week per semester Excursion - 1 hours per week per semester Self organised studies - 120 hours
Teaching Materials and Literature	Literature will be recommended the beginning of the course.
Module Examination	Continuous Assessment (MCA)
Assessment Mode for Module Examination	Group Presentation, 15 minutes per student (50 %) Written Essay, based on presentation (between 4.000 - 6.000 words per group) (50 %)
Evaluation of Module Examination	Performance Verification – graded
Limited Number of Participants	none
Part of the Study Programme	Abschluss im Ausland / Architektur / keine Prüfungsordnung Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung Master (universitär) / Urban Design and Sustainable Revitalization / Prüfungsordnung 2024 Abschluss im Ausland / World Heritage Studies / keine Prüfungsordnung Master (universitär) / World Heritage Studies / Prüfungsordnung 2008 Master (universitär) - Doppelabschluss / World Heritage Studies / Prüfungsordnung 2008

Master (universitär) - Doppelabschluss / World Heritage Studies /
Prüfungsordnung 2021

Remarks	none
Module Components	<ul style="list-style-type: none">• 2403211 Lecture Cultural Landscapes• 2403212 Seminar Cultural Landscapes• 2403213 Exkursion Cultural Landscapes
Components to be offered in the Current Semester	No assignment

Erläuterungen

Das Modulhandbuch bildet als Teil der Prüfungsordnung die Rechtsgrundlage für ein ordnungsgemäßes Studium. Darüber hinaus soll es jedoch auch Orientierung bei der Gestaltung des Studiums geben.

Dieses Modulhandbuch wurde am 09. Januar 2025 automatisch für den Master (universitär)-Studiengang Urban Design and Sustainable Revitalization (universitäres Profil), PO-Version 2024, aus dem Prüfungsverwaltungssystem auf Basis der Prüfungsordnung generiert. Es enthält alle zugeordneten Module einschließlich der ausführlichen Modulbeschreibungen mit Stand vom 09. Januar 2025. Neben der Zusammensetzung aller Veranstaltungen zu einem Modul wird zusätzlich das Veranstaltungsangebot für das jeweils aktuelle Semester gemäß dem Verzeichnis der BTU ausgegeben.

The module catalogue is part of the examination regulation and as such establishes the legal basis for studies according to the rules. Furthermore, it should also give orientation for the organisation of the studies.

This module catalogue was generated automatically by the examination administration system on the base of the examination regulation on the 9 January 2025, for the Master (universitär) of Urban Design and Sustainable Revitalization (research-oriented profile). The examination version is the 2024, Catalogue contains all allocated modules including the detailed module descriptions from 9 January 2025. Apart from the composition of all components of a module, the list of lectures, seminars and events for the current semester according to the catalogue of lectures of the BTU is displayed.