



**Module Handbook Bachelor's Degree
Programme
Urban Design (B.Sc.)**

Faculty of Architecture
15.12.2021

Introduction to Urban Design and Planning

Responsible for the module:	Prof. Dr. Rohde / Dr. Wolff	Module code:	BSc 1.1
Offered in the Degree Programme:	Urban Design, B.Sc.	Offered in semester:	1st semester
Credit points:	10 CP	Number of participants:	35/20
Weekly semester hours:	6	Language of instruction:	German
Examination:	Portfolio	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, excursions, supervised exercises and free work

Teaching content:

The course teaches:

- an introduction to planning and design methods
- methods for independent observation, description and analysis of urban spaces (spatial observation, visual documentation, mapping, etc.)
- possibilities for reflection and reappraisal of one's own experience of space
- getting to know systematic methods of analysing urban spaces
- an introduction to research strategies for spatial analysis
- methods for integrating the different analytical approaches
- methods for presenting the results of the analysis (in cooperation with the module Presenting 1)
- short workshops with design exercises

Competence goals:

Students who successfully complete this module will be able to:

- deal with basic terms and concepts from the fields of urban development and urban planning
- to work out analytical basics independently
- name basic categories of spatial characteristics
- understand basic interrelationships of social, economic, technological, environmental, legal, infrastructure and construction conditions
- translate methods of analysing urban spaces into urban planning forms of representation.
- independently develop and present simple spatial analyses
- derive design approaches from the spatial analysis
- develop and present simple urban designs and scenarios

Project 1

Responsible for the module:	Prof. Dr. Rohde/ Dr. Wolff	Module code:	BSc 1.2
Offered in the Degree Programme:	Urban Design, B.Sc.	Offered in semester:	2nd semester
Credit points:	10 CP	Number of participants:	35/20
Weekly semester hours:	6 SWS	Language of instruction:	German
Examination:	Design	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, excursions, supervised exercises and free work

Teaching content:

The course teaches:

- basics for the independent development of an urban planning project
- an application-oriented deepening and reflection of already acquired knowledge on the basis of a real planning and design task of urban spaces
- deepening the methods of spatial analysis
- more in-depth understanding of the examination of social, economic, ecological, legal, technological and constructional aspects of urban planning.
- the ability to work on a simple design task with a focus on urban landscapes, rural settlement areas or hybrid spatial structures.
- basic techniques of team and project organisation (communication formats, group processes, general procedures and working methods)
- presentation techniques appropriate to the project
- methods of theoretical design reflection

Competence goals:

Students who successfully complete this module will be able to:

- understand, describe and reflect on a fundamental professional issue
- produce a spatial analysis appropriate to the design task
- to develop their own solutions for a small-scale design task using scientific and artistic methods.
- design project work in a communicative, interactive and work-organising way
- communicate the results of their work to the professional group, to the public or to external actors.
- To present the process of analysis and design visually and in writing.
- reflect on their own approaches
- bringing design methods together with planning principles of order

Project 2

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 1.3
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd semester
Credit points:	10 CP	Number of participants:	35/20
Weekly semester hours:	6	Language of instruction:	German
Examination:	Design	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

Teaching content:

The course teaches:

- knowledge and competences for the independent design of an urban development project on the level of urban quarters, rural settlements or hybrid spatial constellations.
- understanding of the complexity of planning problems and tasks with aspects such as ecological urban renewal, transport planning, housing policy, conversion, village renewal
- insights into alternative planning models and conflicts of interest
- deepening the methods of spatial analysis
- deepening the interrelationships of social, economic, ecological, legal and constructional aspects
- insights into the constellations of actors relevant to the design task
- the deepening and reflection of already acquired knowledge on the basis of a real planning and design task
- deepening techniques of team and project organisation (communication formats, group processes, general procedures and working methods),
- presentation techniques appropriate to the project
- methods of theoretical design reflection

Competence goals:

Students who successfully complete this module will be able to:

- understand, describe and critically reflect on subject-related issues in increased complexity
- produce a spatial analysis appropriate to the design task
- to develop their own approaches to a design task on the scale of a neighbourhood using scientific and artistic methods.
- to organise the project work in a communicative, interactive and work-organising way,
- Communicate work results appropriately to professional groups, the public or to external stakeholders of the planning task.
- to present the process of analysis and design visually and in writing.
- reflect on and explain their own approaches.

Project 3

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 1.4
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	4th semester
Credit points:	10 CP	Number of participants:	35/20
Weekly semester hours:	6	Language of instruction:	German
Examination:	Design	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

Teaching content:

The course teaches:

- understanding of the complexity of planning problems and tasks in urban planning
- insights into alternative planning models and conflicts of interest in urban development
- deepening the methods of spatial analysis
- reflection on the interrelationships of social, economic, ecological, legal and constructional aspects
- insights into the actor constellations relevant to urban development issues
- the deepening and reflection of already acquired knowledge on the basis of a real planning and design task.
- the processing of a design task with the focus on integrated planning on a city-wide level (or a corresponding rural or hybrid spatial context).
- deepening techniques of team and project organisation (communication formats, group processes, general procedures and working methods),
- insights into process design as part of concept development (in cooperation with the module "Project Management")
- introduction to communication design with the relevant stakeholders (in cooperation with the module "Project Management")
- knowledge about the integration of informal procedures into the planning process
- deepening of presentation possibilities appropriate to the project

Competence goals:

Students who successfully complete this module will be able to:

- understand, describe and critically reflect on a complex professional issue.
- to prepare a spatial analysis appropriate to the design task and from this to develop approaches to solutions for an urban development project within the group using scientific and artistic methods
- to organise the project work in an appropriate communicative, interactive and work-organisational way and to present and communicate the results of the work appropriately to the professional groups, to the public or to external actors of the planning task.
- work on a complex project task in a team
- reflect on one's own procedures and classify them in the context of urban planning models

Project 4

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 1.5
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	5th semester
Credit points:	10 CP	Number of participants:	35/20
Weekly semester hours:	6	Language of instruction:	German
Examination:	Design	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

Teaching content:

The course teaches:

- a diversification of the possibilities for dealing with complex information as a starting point for planning problems and tasks in urban planning.
- use of data-based information in spatial analysis
- reflection on the significance of data for alternative planning models and conflicts of interest.
- testing of analytical competences on the basis of a real planning and design task
- getting to know data-based design approaches
- the processing of a design task with a deepening of the aspects of infrastructure, mobility and sustainable open space planning (in cooperation with the module Planning 5)
- deepening of team and project organisation techniques (communication formats, group processes, general procedures and working methods),
- deepening of presentation possibilities appropriate to the project

Competence goals:

Students who successfully complete this module will be able to:

- be able to describe and interpret complex spatial data as a basis for planning problems and objectives
- understand and apply data-based design approaches
- to be able to integrate mobility issues and the associated requirements for open space qualities into a design project.
- to organise the project work in an appropriate communicative, interactive and work-organisational way and to present and communicate the results of the work appropriately to the professional groups, publicly or to external actors of the planning task.
- work on a complex project task in a team
- to reflect on their own procedures and to classify them in urban planning models

Short projects

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Modulecode:	BSc 1.6
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	5th semester
Credit points:	8 CP	Number of participants:	35/20
Weekly semester hours:	4	Language of instruction:	German
Examination:	Portfolio	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	136 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

Teaching content:

The course teaches:

- preparation for the Bachelor Thesis
- a deepening of design strategies for the processing of design tasks in a narrowly limited period of time
- several compact project tasks. These include: a) an (ad hoc) urban design; b) a compact urban analysis task to be completed with an essay and graphic representations; c) an urban design project with a limited complexity of tasks.

Competence goals:

Students who successfully complete this module will be able to:

- independently develop an urban development task
- independently research analytical bases for reflecting on and working on the task at hand
- to produce a spatial analysis that is appropriate to the problem at hand
- independently develop a planning approach using scientific-artistic methods
- present the results of the work and its analytical basis in a professionally appropriate manner using graphic and textual means

Planning 1

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 2.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	1st semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	German
Examination:	Written exam	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	36 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the course

Urban and regional planning 1

Teaching content:

The course teaches:

- an introduction to current fields of activity in urban and regional planning
- an introduction to the challenges of sustainable urban and regional planning for the future
- insights into current settlement structure and socio-economic developments of urban and rural areas
- an overview of the historical change of planning problems and the understanding of planning by means of central texts on planning theory
- an introduction to the instruments and methods of spatial planning
- an introduction to the legal framework of planning
- aspects of formalised analysis, forecasting, evaluation and decision-making methods in spatial planning
- an introduction to formal and informal planning and participation procedures

Competence goals:

Students who successfully complete this module will be able to:

- name current fields of activity in urban and regional planning
- understand the challenges of sustainable urban and regional planning for the future.
- describe current settlement structure and socio-economic developments of urban and rural areas
- understand the changing nature of planning problems and the understanding of planning
- name instruments and methods of spatial planning
- understand the legal framework of spatial planning
- identify formal and informal planning and participation procedures

Planning 2

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 2.2
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	2nd semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	German
Form of examination:	Written exam	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	36 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Urban and regional planning 2

Teaching content:

The course teaches:

- an overview of the institutional framework of urban and regional planning in Germany and Europe
- insights into the institutional framework of spatial and regional planning in Germany
- insights into regional cooperation and administrative structures
- an overview of the spatially significant sectoral plans involved at the various planning levels
- an overview of the actors involved in spatial planning and their interdependencies
- insights into the challenges for the development of planning processes arising from the constellations of actors.

Competence goals:

Students who successfully complete this module will be able to:

- name institutions of urban and regional planning in Germany and Europe
- designate institutions of spatial planning and land use planning in Germany
- understand regional cooperation and management structures
- identify the spatially significant sectoral plans involved in the different planning levels and understand their tasks.
- identify the actors involved in spatial planning and understand their interdependencies
- understand the requirements for planning processes arising from the actor constellations

Planning 3

Responsible for the module:	Prof. Willmann / Rohr	Module code:	BSc 2.3
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd semester
Credit points:	3 CP	Number of participants:	35
Weekly semester hours:	3	Language of instruction:	German
Examination:	Portfolio	Art:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	39 h self-study, 36 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

Teaching content:

The event conveys:

- urban climatic basics
- basics of the interaction of building density, building typologies, open space design, traffic areas in relation to the energy demand and CO₂ emissions of the built environment.
- understanding and reflecting on the influence of the design of buildings and open space on the microclimate and its impact on the energy demand of buildings.
- use of data-based information in spatial, climatic and energy analysis
- mathematical-physical models and numerical methods required for the description and implementation of a dynamic urban simulation model of thermo-energetic effects for the building stock.
- fundamentals for the planning and implementation of modelling and simulation of the energy efficiency of neighbourhoods
- thermodynamic and multidimensional effects
- testing of analytical competences on the basis of a real planning and design task

Competence goals:

Students who successfully complete this module:

- acquire knowledge about different reactions of a building to the surrounding microclimate based on heat transfer and heat storage
- can model single and multi-zone building models for dynamic thermal simulations
- know statistical data sources and can use them in simulation models
- are able to check a planning approach with regard to climatic and energetic effects by means of simulation; to identify measures for minimised CO₂ emissions and to argue these quantitatively

Planning 4

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 2.4
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in the semester:	4th semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	English
Examination:	Coursework	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	36 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Project and process management

Communication in the planning process

Teaching content:

The course teaches:

- an introduction to process management; management models and project definitions in urban planning contexts.
- basic knowledge of the definition, preparation, planning, implementation, control and conclusion of projects in urban development or urban planning contexts.
- competencies for initiating projects, organisational, stakeholder and environment analysis
- basic knowledge of process optimisation and visualisation practices and tools
- a deepening of knowledge about the political and professional decision-making processes essential in urban planning.
- knowledge of the basics of communication processes and strategies in urban planning processes in administrative and political contexts
- basic knowledge of communication techniques and media
- knowledge of the actors' multi-perspective view of the planning process and the resulting actor-specific interactions as well as target group-specific communication strategies

Competence goals:

Students who successfully complete this module will be able to:

- define projects including programme and objectives
- create work breakdown structures and risk analyses
- design, control, adapt and evaluate processes
- understand and generate process visualisations
- critically reflect on processes from different points of view and thus develop appropriate interventions
- identify relevant stakeholders, analyse perspectives on the planning process and integrate them into the process in an appropriate way.
- understand communication strategies, processes and media and independently integrate actor-specific communication strategies into their own projects in a goal-oriented way.

Planning 5

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 2.5
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	5th semester
Credit points:	6	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	German
Examination:	Coursework	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	86 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Mobilities / Infrastructure

Open Space Planning

Teaching content:

The course teaches:

- representation of transport, supply and disposal systems in urban development processes (road and path construction, water management, soil management, telecommunications, energy)
- knowledge of trends in the development of infrastructures and usage behaviour (mobility and resources) and their significance for sustainable urban development
- methodological approaches to planning and modelling infrastructures and mobility solutions for sustainable demand and location planning
- tasks, objectives, contents and methods of landscape and open space planning
- knowledge of planning levels, plans, implementation and binding nature of landscape and open space planning
- an overview of the legal basis and related planning instruments
- basic concepts of applied landscape ecology
- analytical consideration of the natural and landscape balance and their interactions.
- instruments and methods of urban and open space planning for the design process at different scale levels

Competence goals:

Students who successfully complete this module will be able to:

- understand development trends of infrastructures and usage behaviour (mobility and resources) and their importance for sustainable urban development.
- integrate different aspects of mobility into result-oriented approaches to solutions
- understand planning as a process shaped by infrastructural conditions
- understand scientifically based planning activities in open space development, planning and design on the basis of current issues.
- reflect on sociological, aesthetic and functional aspects against the background of different approaches to open space planning and design
- master and apply open space planning representation and communication media and forms

Visualisation 1

Responsible for the module:	Prof. Dr. Schmitt/ Mingrone	Module code:	BSc 3.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	1st semester
Credit points:	5 CP	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	German
Examination:	Portfolio	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	61 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Performing / Designing 1

Digital planning tools 1

Teaching content:

The course teaches:

- basics of creative-compositional principles with and in analogue and digital media (e.g. sketch, drawing, model, photography, digital image media).
- methods of spatial analysis and design concepts including implementation in space
- the basic practice of the methods of analysis, composition, representation, documentation and visualisation in performance and design.
- the ability to translate spatial ideas and conceptions from design processes with different media into an appropriate representation
- basic principles of the plan layout
- knowledge in the use of different digital planning tools
- basic skills in using digital planning and design tools in 2D and 3D for urban-spatial situations

Competence goals:

Students who successfully complete this module will be able to:

- analyse and grasp spatial situations and potentials
- develop and present innovative and creative solutions
- formulate concepts and implement ideas creatively
- recognise and apply basic compositional design principles
- apply analogue and digital tools for visualisation
- design and work three-dimensionally and spatially
- present ideas and concepts via plans and models

Visualisation 2

Responsible for the module:	Prof. Beckenhaub / Mingrone	Module code:	BSc 3.2
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	2nd semester
Credit points:	5 CP	Number of participants:	35
Weekly semester hours:	4	Language of instruction:	German
Examination:	Portfolio	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	61 h self-study, 64 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Performing / Designing 2

Digital planning tools 2

Teaching content:

The course teaches:

- an in-depth exploration of creative-compositional principles of form, colour, body, material, light and space with and in analogue and digital media (e.g. sketch, drawing, model, photography, digital image media)
- methods of spatial analysis and their visualisation
- the in-depth application of representational-creative methods of analysis, composition, representation, documentation and visualisation, especially with reference to urban planning and landscape planning issues.
- development and design implementation of spatial concepts on an urban scale
- digital visualisation and simulation tools such as city information modelling
- basics of graphic and communication design
- knowledge of generative modelling systems and their visualisation

Competence goals:

Students who successfully complete this module will be able to:

- name central methods and tools for the representation and planning of urban spaces and apply them purposefully in the context of a typical workflow in study and practice
- analyse and record spaces, their conflicts and potentials.
- apply different methods of analysis and implement them creatively
- use a wide variety of media and methods of visualisation, representation and design, both analogue and digital
- develop, conceptualise and visualise complex contexts, visionary concepts, futuristic fantasies and urban possibilities
- design spatial analyses, spatial concepts and planning processes in a graphically and visually comprehensible and appealing way
apply computer-aided planning tools in urban planning processes
- understand and apply digital modelling practices

Visualisation 3

Responsible for the module:	Prof. Thiessen / Mingrone	Module code:	BSc 3.3
Offered in the Study Programme:	Urban Design, B.Sc.	Offer in the semester:	3rd semester
Credit points:	7 CP	Number of participants:	35
Weekly semester hours:	6	Language of instruction:	German
Form of examination:	Portfolio	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	79 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Digital urbanism

Geoinformatics / GIS

Teaching content:

The course teaches:

- skills in the use of digital tools for representation and planning in urban development processes
- tools for the digital plastic-spatial representation of urban planning concepts
- knowledge on the use of digital platforms for networking stakeholders
- basics and terms of geoinformatics and GIS (geodata and information, geoinformation systems, GIS components)
- original and secondary geodata collection methods, use of existing geodata (types, providers, access, formats), geodata management, geodata analyses
- geodata presentation (maps, design elements, map components)
- GIS software (categories, applications), introduction to the use of open source GIS software

Competence goals:

Students who successfully complete this module will be able to:

- present and communicate urban planning content and designs using digital media
- generate different urban representations (master plans, 2D/3D visualisations, animations and simulations) and relate them to each other.
- understand the functioning of digital platforms for networking actors
- understand how data-based design works on an urban scale.
- understand the theoretical basis of geoinformation systems and their range of applications in urban and regional planning.
- use geoinformation systems as a tool to work on tasks and projects

Theory 1

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	1st semester
Credit points:	7 CP	Number of participants:	35
Weekly semester hours:	6	Language of instruction:	German / English
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	79 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

History/Theory of Urban and Rural Environment 1
Urban Cultural Studies 1

Teaching content:

The course teaches:

- a content-related and methodological introduction to the field of knowledge of urban design from the perspective of the history and theory of the built environment.
- an overview of the fundamental lines of development of historical urban planning practice
- central themes and questions of historical and theoretical research by means of the analysis of selected examples
- different scientific perspectives on urban phenomena based on specific urban designs and phenomena in different historical contexts.
- an overview of cultural studies approaches to the study of urban and rural phenomena
- a scientific-theoretical classification of the subject areas history and theory of built space as a guide to interdisciplinary, critical and research-based learning
- introduction to scientific work

Competence goals:

Students who successfully complete this module will be able to:

- understand and analyse texts on different historical and theoretical topics
- describe, identify and discuss urban phenomena
- survey the lines of development of urban planning history and theory
- grasp the role of theoretical thinking for urban planning and landscape planning practice in its historical dimensions
- understand the scientific basis of urban planning knowledge, thinking and design.

Theory 2

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.2
Offered in the Study Programme:	Urban Design, B.Sc.	Offer in the semester:	Semester 2
Credit points:	7 CP	Number of participants:	35
Weekly semester hours:	6	Language of instruction:	German / English
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	79 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

History/Theory of Urban and Rural Environment 2

Urban Cultural Studies 2

Teaching content:

The course teaches:

- a substantive and methodological immersion in the field of knowledge of urban design from the perspective of the history and theory of the built environment
- an in-depth examination of selected lines of development in urban planning practice
- global perspectives on central themes and issues of historical and theoretical research through the analysis of selected examples
- different scientific ways of thinking in contemporary urban design
- in-depth examination of cultural studies approaches to the study of urban and rural phenomena
- a scientific-theoretical classification of the subject areas history and theory of built space as a guide to interdisciplinary, critical and research-based learning
- introduction to scientific work

Competence goals:

Students who successfully complete this module will be able to:

- understand and analyse texts on different historical and theoretical topics
- independently describe, identify and discuss urban phenomena
- survey the lines of development of urban planning history and theory
- grasp the role of theoretical and interdisciplinary thinking for urban planning and landscape planning practice in its historical dimensions
- understand the scientific foundations of urban planning knowledge, thinking and design and apply them independently.

Theory 3

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.3
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd semester
Credit points:	6 CP	Number of participants:	35
Weekly semester hours:	5	Language of instruction:	German / English
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	70 h self-study, 80 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Political aspects of Urban and rural development

Urban Social Geography

Teaching content:

The course teaches:

- basic terms, concepts and theories on the topics of politics and social geography in urban, suburban and rural contexts
- knowledge of the political interests, actors, processes and structures of urban and rural development
- concepts of demographic dynamics, distribution and development
- comparative political development models of the city in different historical-economic situations
- knowledge of basic theories and models for describing and explaining socio-spatial structures and processes
- theoretical foundations of social geography in urban and rural dimensions
- knowledge of theoretical approaches to modelling and explaining urban development processes in different socio-cultural contexts.
- empirical studies on selected social geographic topics in connection with transformation processes of urban and rural areas

Competence goals:

Students who successfully complete this module will be able to:

- understand and analyse the political constellations of actors and institutions in urban development processes through texts, data, pictorial and cartographic representations.
- understand political strategies for urban development processes
- critically engage with current approaches to social geography in urban and rural contexts and their theoretical foundations.
- recognise current issues in research-oriented or applied urban research and translate them into politically relevant approaches for action.
- understand socio-geographical transformation processes in urban and rural areas as being interrelated

Theory 4

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.4
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	4th Semester
Credit points:	6 CP	Number of participants:	35
Weekly semester hours:	6	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	54 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

- *Sustainable urban development*
- *Economies of the urban*
- *Building and planning law*

Teaching content:

The course teaches:

- fundamentals of the fields of knowledge ecology, economy and building and planning law with reference to the design and planning of urban spaces in urban and rural contexts.
- ecological, economic and legal aspects of planning processes
- knowledge of the relationships, interactions and dynamics of the topics of sustainability, economy and law in complex urban planning processes
- concepts, theories and practical examples of sustainable design of urban spaces
- knowledge about the role of urban spaces in exchange processes of goods and services
- insights into relevant aspects of public law; administrative law and special urban planning law
- basics and cross-relationships of environmental law, building code law and building and planning law, especially urban land use planning (e.g. FNP, BauNVO);
- insights into the available planning law instruments of administrative action (e.g. urban development contracts; pre-emption rights).

Competence goals:

Students who successfully complete this module will be able to:

- understand different economic perspectives in relation to social, environmental and legal issues.
- understand, reflect and apply complex ecological systems with reference to issues of sustainable urban and regional development and the conflicting goals that arise.
- understand and reflect on economic methods, concepts and theories in the context of sustainable urban and regional development and apply them to planning issues.
- recognise the legal bindings and requirements for state planning and understand the building and planning law instruments, processes and regulations.
- name the planning law foundations and institutions of planning processes and understand the systematics of public building law and transfer them to the development of planning projects.

Theory 5

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.5
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	5th semester
Credit points:	6 CP	Number of participants:	35
Weekly semester hours:	5	Language of instruction:	English
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	70 h self-study, 80 h lecture and supervision of exercises
Event form:	Lectures, supervised exercises and free work

The module consists of the courses

Urban Anthropology

Global Urbanism

Teaching content:

The course teaches:

- basic terms, concepts and theories of urban anthropology and global urbanism in urban, suburban and rural contexts.
- knowledge of urban phenomena from an anthropological perspective
- methodological approaches to the ethnographic analysis of urban spaces
- understanding of historical developments and current transformation processes through questions of anthropology
- insights into the global networking of urban transformation processes
- knowledge of postcolonial, non-European discourses on phenomena of the urban

Competence goals:

Students who successfully complete this module will be able to:

- grasp the basic theoretical positions of urban anthropology and its historical development
- understand ethnographic methods of anthropological urban research and operationalise them for their own design practice.
- to use modes of representation and analysis of urban anthropology for their own project work
- understand the interdependence and complexity of global and local processes of urbanism
- understand post-colonial approaches as critical perspectives on urban developments

Theory 6

Responsible for the module:	NN/Dean of Studies / Dr. Robbers	Module code:	BSc 4.6
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	6th semester
Credit points:	10 CP	Number of participants:	35
Weekly semester hours:	6	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	154 h self-study, 96 h lecture and supervision of exercises
Course form:	Lectures, supervised exercises and free work

The module consists of the courses

Urban Design: Current Topics

Debates and methods in contemporary urban studies

Teaching content:

The course teaches:

- selected current topics, issues and positions in the fields of urban planning and design
- detailed case studies of contemporary urban planning practice in the context of academic discourses
- the historical and theoretical dimensions of the selected case studies
- References between the case studies and one's own design and planning practice
- Diverse content and methodological approaches of contemporary research in Urban Studies

Competence goals:

After students have completed this module they will be able to:

- critically reflect on basic contents and methods of current discourses, conditions and developments in urban design and planning
- critically analyse and reflect on approaches to planning for urban and rural space using current case studies and apply them to current issues
- to derive references between one's own design practice and trends in contemporary architecture, to critically question them in order to productively transfer them into one's own design and planning practice.
- independently understand a complex urban design or planning project and anchor it in the context of relevant scientific discourses and design practices

Lab 1

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 5.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	1st semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	2	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	68 h self-study and group work, 32 h seminar and coaching
Course form:	Seminar, supervised exercises and free work

Teaching content:

The course teaches:

- basics of research-based learning and scientific work
- basics of different qualitative-empirical methods (e.g. interviews, mental maps)
- first insights into the analysis of qualitative data.
- basics of the research design
- reflection on own research ideas in group feedback with other students
- application of the developed problem with regard to a self-selected urban planning problem (if possible with reference to module 1.1)

Competence goals:

Students who successfully complete this module will be able to:

- relate researched data to space and understand it
- to be able to describe and interpret empirical material as a basis for planning problems and objectives.
- develop their own research question
- with assistance, develop a simple research design for a qualitative study.
- to situate one's own question in contexts of theoretical knowledge, methodological approaches and practices of mediation
- create interview guides
- evaluate the data qualitatively with simple tools.
- reflect on one's own research process
- work collaboratively with other students and critically and constructively accompany their research projects

Lab 2

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 5.2
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	2nd semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	2	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	68 h self-study and group work, 32 h seminar and coaching
Course form:	Seminar, supervised exercises and free work

Teaching content:

The course teaches:

- competences of research-based learning and scientific work
- competences for developing one's own research design from self-developed research questions and on the basis of the theoretical knowledge acquired so far.
- in-depth knowledge of the application of various qualitative empirical methods
- insights into software-based analysis of qualitative data
- reflection on own research ideas in group feedback with other students
- application of the developed question, methodology and research design with regard to a self-selected urban planning question (with reference to Module 1.2 - Project 1).

Competence goals:

Students who successfully complete this module will be able to:

- research and understand complex data with a spatial reference
- be able to describe and interpret empirical material as a basis for planning problems and objectives
- develop their own research questions and an adequate research design for a small qualitative study
- to develop a theoretical context appropriate to one's own research question and to present it in writing
- carry out a qualitative evaluation of the data with the help of software
- Reflect on their own research process
- to work collaboratively with other students and to critically and constructively accompany their research projects.
- integrate the results of one's own investigation into the project work (Module 1.2 - Project 1).

Lab 3

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 5.3
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd semester
Credit points:	4 CP	Number of participants:	35
Weekly semester hours:	2	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Winter semester
Duration (in semesters)	1		

Student working hours:	68 h self-study and group work, 32 h seminar and coaching
Course form:	Seminar, supervised exercises and free work

Teaching content:

The course teaches:

- competences of research-based learning and scientific work
- competences for the independent development of one's own research design from self-developed research questions and on the basis of the theoretical knowledge acquired so far.
- insights into the application of quantitative empirical methods
- insights into the analysis of quantitative data
- reflection on own research ideas in group feedback with other students
- application of the developed question, methodology and research design with regard to a self-selected urban planning question (with reference to Module 1.3 - Project 2).

Competence goals:

Students who successfully complete this module will be able to:

- independently research and understand complex data with a spatial reference
- be able to describe and interpret their own empirical material and researched data as a basis for planning problems and objectives.
- develop own research questions and an adequate research design for a qualitative study supporting the parallel project work
- to develop a theoretical context appropriate to one's own question and to present it in writing and visually
- carry out an evaluation of the data with the aid of software
- critically reflect on their own research process
- work collaboratively with other students and critically and constructively accompany their research projects
- integrate the results of one's own investigation into the project work (Module 1.3 - Project 2).

Lab 4

Responsible for the module:	NN/Dean of Studies / Dr. Wolff	Module code:	BSc 5.4
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	4th semester
Credit points:	4 Cp	Number of participants:	35
Weekly semester hours:	2	Language of instruction:	German
Examination:	Course work	Type:	Mandatory module
Participation requirements:	-	Frequency:	Summer semester
Duration (in semesters)	1		

Student working hours:	68 h self-study and group work, 32 h seminar and coaching
Course form:	Seminar, supervised exercises and free work

Teaching content:

The course teaches:

- competences of research-based learning and scientific work
- competences for the independent development of one's own research design from self-developed research questions and on the basis of the theoretical knowledge acquired so far.
- criteria for the application of quantitative and qualitative empirical methods
- application of tools for the analysis of quantitative data
- reflection on own research ideas in group feedback with other students
- application of the developed question, methodology and research design with regard to a self-selected urban planning question (with reference to Module 1.4 - Project 3).

Competence goals:

Students who successfully complete this module will be able to:

- independently research and understand complex data with a spatial reference
- be able to describe and interpret their own empirical material and researched data as a basis for planning problems and objectives.
- develop own research questions and an adequate research design for a qualitative study supporting the parallel project work
- to develop a theoretical context appropriate to one's own question and to present it in writing and visually
- apply different quantitative and qualitative empirical methods
- carry out an evaluation of quantitative and qualitative data with the help of software
- critically reflect on their own research process
- work collaboratively with other students and critically and constructively accompany their research projects
- integrate the results of their own investigation into the project work (Module 1.4 - Project 3)

Elective module 1

Responsible for the module:	Dean of Studies	Module code:	BSc 6.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd-6th semester
Credit points:	6 CP	Number of participants:	-
Weekly semester hours:	4	Language of instruction:	German
Examination:	Will be announced in good time before the start of the semester	Type:	Elective module

Student working hours:	86 h self-study, 64 h lecture and supervision of exercises
Course form:	Depending on the respective module

Students are required to take two or more modules of their choice from the compulsory electives in the field of urban design with a total of at least 6 credit points.

Modules taken in other departments or universities that may contribute to the goals of the Bachelor's degree programme in Urban Design can also be recognised as equivalent. The examination board decides on the recognition.

The competence goals and the form of examination will be announced in good time before the start of each semester.

Elective module 2

Responsible for the module:	Dean of Studies	Module code:	BSc 6.2
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	3rd-6th semester
Credit points:	8 CP	Number of participants:	-
Weekly semester hours:	6	Language of instruction:	German
Form of examination:	Will be announced in good time before the start of the semester	Type:	Elective module

Student working hours:	104 h self-study, 96 h lecture and supervision of exercises
Course form:	Depending on the respecting module

Students are required to take two or more modules of their choice from the compulsory electives in the field of urban design with a total of at least 8 credit points.

Modules taken in other departments or universities that may contribute to the goals of the Bachelor's degree programme in Architecture can also be recognised as equivalent. The examination board decides on the recognition.

The competence goals and the form of examination will be announced in good time before the start of each semester.

Bachelor's thesis

Responsible for the module:	Dean of Studies	Module code:	BSc 7.1
Offered in the Study Programme:	Urban Design, B.Sc.	Offered in semester:	6th semester
Credit points:	12 CP	Number of participants:	-
Weekly semester hours:		Language of instruction:	German
Form of examination:	Bachelor's thesis, colloquium	Art:	Mandatory module
Student working hours:	297 h self-study, 3 h supervision and colloquium		
Course form:	mentoring and assessment sessions, colloquium and free work		

Teaching content:

The Bachelor's thesis is a scientific work in the field of Urban Design. The content of the course consists of the independent elaboration of an urban design project or a theoretical work from the field of Urban Studies. The work can have a planning, design, theoretical, empirical or conceptual focus.

Competence goals:

Students who successfully complete this module will be able to:

- independently work on a complex topic from the fields of urban design, urban and spatial planning and urban studies according to scientific and professional standards within a given time limit
- independently develop scientific questions within the framework of a Bachelor's thesis
- present their topics according to professional and scientific standards (exhibition, portfolio, thesis)
- communicate the final design project of the Bachelor thesis orally and visually