Module Handbook
Architectural Heritage Conservation
(Baukulturerbe)

Faculty of Architecture and Civil Engineering
Hochschule **RheinMain** I University of Applied Sciences

Bachelor of Science (B.Sc.)

IMPORTANT
Please note that this is an English translation of the German module handbook intended to give an overview of the degree program's curriculum and teaching contents. This document is for information purposes only and is not legally binding.

MODULES AND COURSES

Module Title	**Design Basics and Presentation I**
Module Title (German)	Gestaltung und Darstellung I
Code	1010
Language of Instruction	German
Recommended Semester(s)	1
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Knowledge of basic methods and strategies of design and their influencing factors in the design of architectural space. Development of multisensory perception and design skills. Basic knowledge of the tools of architectural visual representation. Acquisition of fundamental skills in the area of visual representation and communication, as well as personal means of expression. **Other competencies and skills (Communication and cooperation):** Students will learn appropriate work techniques, presentation techniques, team, communication and intercultural skills, and acquire the ability to research literature.
Credit Points	12 CP
Module Courses	BBK115 CAAD I (Tutorial) BBK113 Design Basics I

Course Title	**CAAD I (Tutorial)**
Course Title (German)	CAAD I
Course Number	BBK115
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Basic knowledge of digital modeling and visualization in the design process. Ability to display simpler architectural designs in 3D (space, object) and in 2D (drawings) Use of 3D modeling to review, optimize and communicate architectural design ideas. Acquisition of basic skills of expression and visual representation when working with CAAD.
Topics/Course Contents	Basic modeling of buildings and space (geometry). Texturing, materiality, exposure to light and lighting as additional statements (surface and context) Representation of space/object in 3D (real-time visualization) and in drawings (CAD) Adequate degree of abstraction. Learning to use the necessary software.
Credit Points	4 CP

Course Title	**Design Basics I**
Course Title (German)	Grundlagen der Gestaltung I
Course Number	BBK113
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Basic knowledge about the fundamental principles of perception, aesthetics, form theory, the methodology of design. Development of visual, perceptive and imaginative skills. Dealing with questions of visual and three-dimensional design in terms of use, appearance and impact potential. Experience in dealing with methods and means of design and the transformation of the abstract into concrete form. Acquisition of basic expression and visual representation skills in various media for the development and communication of architectural design ideas.
Topics/Course Contents	Theoretical principles in the field of perception, aesthetics, form theory and methodology. Training sensory and perceptive skills, gaining initial experience with materials and space. Developing, applying and experimenting with basic methods and strategies of visual and three-dimensional design. Introduction to basic visual representation and communication techniques in the field of analog and digital drawing, freehand drawing, perspective, descriptive geometry, the basics of digital graphics processing (layout/typography/image processing), model making.
Credit Points	8 CP

Module Title	**Structural Design and Construction**
Module Title (German)	Tragwerk und Konstruktion
Code	1020
Language of Instruction	German
Recommended Semester(s)	1
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** After participating in the courses of the module structural design and construction, students have basic knowledge of building materials, construction methods and load flow in structural design. Students are familiar with the material-specific properties of modern and historical building materials as well as of the structural design and construction methods of buildings and their components. They will be able to classify historical structures and assess simple static systems regarding load flow. Students understand the complex interrelationships - and partly contradictory requirements - of structural stability, building physics, use and aesthetics and/or the value of historical buildings and know the basic procedure for the planning and implementation of a renovation project. **Other competencies and skills (Communication and cooperation):** Students will learn appropriate work techniques, presentation techniques, team, communication and intercultural skills, and acquire the ability to research literature. After participating in the module, students will be able to moderate conceptual processes and constructively solve thematic and social challenges arising during group work using selected methods.
Credit Points	8 CP
Module Courses	BBK124 Building Construction Basics BBK123 Structural Design Basics BBK125 Historical Structural Design and Building Constructions

Course Title	**Building Construction Basics**
Course Title (German)	Grundlagen der Baukonstruktion
Course Number	BBK124
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Within the framework of the course Building Construction Basics, students acquire basic knowledge of modern and historical construction methods, building materials and construction methods. They are familiar with the material-specific properties of building materials as well as of the structural design and construction methods of buildings and their relevant components. Students are able to recognize and evaluate the complex interrelationships - and partly contradictory requirements - of structural stability, building physics, use and aesthetics and/or the value of historical buildings.
Topics/Course Contents	• Impacts on structural designs • Building materials • Construction forms of roofs, ceilings and walls • Building ground and foundation • Protection against water and moisture • Soundproofing • Fire protection • Thermal insulation
Credit Points	2 CP

Course Title	**Structural Design Basics**
Course Title (German)	Grundlagen der Tragwerkslehre
Course Number	BBK123
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	During the course ´Structural Design Basics´ students acquire a fundamental understanding of the most important laws of mechanics and the distribution of forces in buildings. Based on the loads impacting a building, students learn the laws of statics and strength of materials and are able to transfer them to simple static systems and materialities. Students are able to reconcile the required load-bearing capacity and usability of a building construction with the requirements of cost-effectiveness and aesthetics and to present them for practical constructional design tasks.
Topics/Course Contents	• Basic tasks of structural design • Impacts on structures • Load and balance • The single span beam: supporting loads and internal forces • Bending design of beams made of wood and steel • Reinforced concrete • Structural deformations • Load-bearing systems
Credit Points	2 CP

Course Title	**Historic Structures and Building Construction**
Course Title (German)	Historische Tragwerke und Baukonstruktionen
Course Number	BBK125
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	During the course "Historical Structural Design and Building Constructions" students acquire basic knowledge of historical structural design as well as the structural features of existing buildings, taking into account their period of origin. They are familiar with the structural and constructional characteristics and the resulting structural tasks in connection with the renovation, conversion and extension of existing buildings. The students have basic knowledge of survey methods for existing building structures and know the basic procedure for the planning and implementation of a renovation project.
Topics/Course Contents	• Basic tasks of structural design • Historical ceiling and wall constructions • Historical foundations • Arches and vaults • Historical wooden constructions • Historical iron and steel constructions • Concrete and reinforced concrete structures • Structural damage and its causes • Approach to a renovation project, survey methods
Credit Points	4 CP

Module Title	**English for Heritage Conservation (B2)**
Module Title (German)	English for Heritage Conservation (B2)
Code	1030
Language of Instruction	English
Recommended Semester(s)	1
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Throughout the module, students should (further) develop the ability to understand and reproduce the main content of more complex subject-specific texts (written and spoken) as well as to participate in discussions in English on concrete and abstract subject-specific topics. Students should also (further) develop the ability and skills needed to express themselves more spontaneously and fluently in English, to explain a position on a question and to indicate the advantages and disadvantages of different possibilities. Furthermore, students expand their knowledge of subject-specific vocabulary and practice using in both written and spoken language. In doing so, they should be able to read and understand selected subject-specific English texts, and to filter out information. The module also aims at helping to prepare students to successfully participate in English language lectures in their own subject and study area, and to participate in expert discussions and negotiations. **Other competencies and skills (Communication and cooperation):** The students (further) develop suitable working techniques, presentation techniques, team and communication skills, literature research and intercultural skills. Next to (further) developing communicative competences in the foreign language, students should be able to reflect on team processes and should (further) develop an awareness of cooperative and social design processes.
Credit Points	2 CP
Module Courses	BBk133 English for Heritage Conservation (B2)

Course Title	**English for Heritage Conservation (B2)**
Course Title (German)	English for Heritage Conservation (B2)
Course Number	BBK133
Language of Instruction	English
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Competencies are described on module level
Topics/Course Contents	• Studying the field of Heritage Conservation regarding various aspects, e.g. urban planning, architectural styles and features, UNESCO, etc. • Vocabulary, reading, discussion and listening comprehension exercises in the context of these studies
Credit Points	2 CP

Module Title	**Project A: Space and Form**
Module Title (German)	Projekt A: Raum und Form
Code	1040
Language of Instruction	German
Recommended Semester(s)	1
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Introduction to architectural questions: Basic knowledge of the characteristics of architectural space - Basic experience in dealing with the methodology of architectural design - Acquisition of a conceptual and creative way of thinking and working - Acquisition of basic presentation and communication skills, as well as of own means of expression. **Other competencies and skills (Communication and cooperation):** Students will learn appropriate work and presentation techniques, acquire team, communication and intercultural skills, and the ability to research literature. Participation in project A enables students to understand and apply the basics of design, to work independently on smaller design tasks and to present the projects in groups of different sizes using plans and models.
Credit Points	8 CP
Module Courses	BBK144 Introduction to Architecture BBK143 Project Work

Course Title	**Introduction to Architecture**
Course Title (German)	Einführung in die Architektur
Course Number	BBK144
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Examination of formal and theoretical aspects of architecture. Acquisition of analytical observation skills. Application of principles of design and order.
Topics/Course Contents	Introduction to the theory of architectural space. Excursus into the human systems of perception. Examination of architectural principles of order to assist students with their own design work.
Credit Points	2 CP

Course Title	**Project Work**
Course Title (German)	Projektarbeit
Course Number	BBK143
Language of Instruction	German
Recommended Semester(s)	1
Course offered in	Every semester
Competencies	Basic experience in dealing with the methodology of architectural design. Introduction to architectural questions. Basic knowledge of the characteristics of architectural space in terms of spatial, functional and structural relationships. Acquisition of a conceptual and creative way of thinking and working.
Topics/Course Contents	The development of architectural space is tested and practiced by means of simple exercises in design.
Credit Points	6 CP

Module Title	**Design and Presentation II**
Module Title (German)	Gestaltung und Darstellung II
Code	2010
Language of Instruction	German
Recommended Semester(s)	2
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Advanced knowledge about the basic methods and strategies of design and their influencing factors in the design of architectural space. Further development of multisensory perception and design skills. Advanced knowledge of the tools of architectural visual representation. Acquisition of advanced skills in the area of visual representation and communication, as well as personal means of expression. **Other competencies and skills (Communication and cooperation):** Students will learn appropriate work techniques, presentation techniques, team, communication and intercultural skills, and acquire the ability to research literature.
Credit Points	6 CP
Module Courses	BBK214 CAAD II BBK213 Design Basics II

Course Title	**CAAD II**
Course Title (German)	CAAD II
Course Number	BBK214
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Extended basic knowledge of digital modeling and visualization in the design process. Ability to display more complex architectural designs in 3D (space, object) and in 2D (drawings) Knowledge and implementation of the difference between CAD and object-oriented modeling. Acquisition of advanced skills of expression and visual representation when working with CAAD.
Topics/Course Contents	Advanced knowledge of CAD, with a focus on technology of visual representation and cooperation. Difference CAD and object-oriented modeling. Detailed representation of space/object in 3D (real-time visualization) and in drawings (CAD). Learning to use the necessary software for this purpose.
Credit Points	2 CP

Course Title	**Design Basics II**
Course Title (German)	Grundlagen der Gestaltung II
Course Number	BBK213
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Extended basic knowledge about the basics of perception, aesthetics, form theory, the methodology of design. Further development of visual, perceptive and imaginative skills. Further examination of questions of visual and three-dimensional design in terms of use, appearance and impact potential. Comprehensive experience in dealing with methods and means of design and the transformation of the abstract into concrete form. Acquisition of a broad range of expressive and presentation skills in various media for the development and communication of architectural design ideas.
Topics/Course Contents	Advanced theoretical principles in the field of perception, aesthetics, form theory and methodology. Further application and research of existing and own design methods. Experiments and conceptual considerations for the formulation of qualities of space. Further development of own approaches and means of expression. Further examination of basic visual representation and communication techniques in the field of analog and digital drawing, freehand drawing, perspective, descriptive geometry, the basics of digital graphics processing (layout/typography/image processing), model making.
Credit Points	4 CP

Module Title	**Architectural History and Archeology**
Module Title (German)	Baugeschichte und Archäologie
Code	2020
Language of Instruction	German
Recommended Semester(s)	2
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Students acquire the ability to understand and evaluate the fundamentals of architectural history and archaeology. After participating in the courses of module 2022, they have broad knowledge and a critical awareness of historical architecture, archaeological heritage / findings and their social-sociological backgrounds. Students understand the most important theories, principles and methods in this field and are sensitized to topics relating to culture and cultural science and how they are incorporated in architecture and urban planning in the current and historical context. They can collect, evaluate and interpret relevant information, in particular from the overall historical spectrum from early times/antiquity to the 16th century. **Other competencies and skills (Communication and cooperation):** Through the interdisciplinary content of the course and the preparation of group presentations, students learn techniques of scientific work and acquire the ability to empathize and to communicate their own subject-related opinions.
Credit Points	8 CP
Module Courses	BBK224 Archeology Seminar BBK225 Architectural History from Early Times till the 16th Century BBK223 Introduction to Archeology BBK226 Special Areas of Architectural History I

Course Title	**Archeology Seminar**
Course Title (German)	Archäologisches Seminar
Course Number	BBK224
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Students familiarize themselves further with the topics dealt with in the course “Introduction to Archeology“ and, due to the acquired knowledge of archaeology and its methods, are able to participate in expert discussions with regard to the significance of the material heritage in our society. Students acquire specialist skills in raising awareness for historical buildings and are able to independently deal with cultural-historical questions.
Topics/Course Contents	- Important ancient excavations and building heritage sites in Germany and internationally, including numerous Unesco World Heritage sites, are discussed. Students will then deal intensively with groups of artefacts, such as sculpture, that originate from these places. - In the course “Special Areas of Architectural History I “, students acquire further knowledge about building types found on these sites. - In terms of content, the focus is on questions concerning the material and spiritual world in ancient times, e.g. everyday life, the cult of the dead, religion, economics, human settlement, or artistic developments.
Credit Points	2 CP

Course Title	**Architectural History from Early Times till the 16th Century**
Course Title (German)	Baugeschichte von der Frühzeit bis ins 16. Jh.
Course Number	BBK225
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Knowledge of European architecture and its constructors in the context of the respective conditions of the time; spatial and form theory, determination of essential architectural technical terms, knowledge of the most significant forms of construction, practicing methods of historical-critical work. Historical buildings and cities in their current and historical context.
Topics/Course Contents	- The historical spectrum ranges from the first settlements and advanced civilizations through antiquity, early Christianity, to medieval architecture and the beginning of modern times. - Categorization in the context of the historical and biographical conditions
Credit Points	2 CP

Course Title	**Introduction to Archeology**
Course Title (German)	Einführung Archäologie
Course Number	BBK223
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Students acquire basic knowledge of archaeological methods (excavation, typology, iconography, style analysis) as well as methods of scientific investigation (e.g. dendrochronology, C14 method, LiDAR) in archaeology. A further goal is the acquisition of basic knowledge of the classification of artefacts/structures/ findings and the materials used as well as of various archaeological institutions on a national and international level, which can be used as possible contact and cooperation partners.
Topics/Course Contents	• The course will focus on an introduction to the visual and scientific methods of recording and analyzing the diverse material heritage of past cultures, with a focus on the Greek and Roman periods. Examples from different genres are used to provide more in-depth knowledge. • Basic overview of the research history associated with the methods as well as the scientific problem-oriented handling of artefacts/structures/ findings. • Strategies and capabilities of subject-specific (image) databases and resources are discussed.
Credit Points	2 CP

Course Title	**Special Fields of Architectural History I**
Course Title (German)	Sondergebiete der Baugeschichte I
Course Number	BBK226
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Students acquire further knowledge of the topics covered in the course "Architectural History from Early Times till the 16th Century". Working independently, they will acquire further knowledge of European architecture through the examination of selected buildings and their constructors in the context of the respective contemporary conditions. They are able to participate in expert discussions in the field of architectural history and built heritage conservation. In addition, students acquire further knowledge of the style epochs and the most significant forms of construction and acquire expertise in setting historical buildings and cities in their current and historical context. Students continue to learn the method of historical-critical work by preparing own papers, using scientific working methods.
Topics/Course Contents	• Various topics of architectural history from the lecture "Early Times till the 16th Century" are dealt with in depth • Research, presentations, papers on individual regions, building types and/or epochs • Topics are partly linked to the contents of the Archaeological Seminar. • Categorization in the context of the historical and biographical conditions.
Credit Points	2 CP

Module Title	**City and Building**
Module Title (German)	Stadt und Haus
Code	2030
Language of Instruction	German
Recommended Semester(s)	2
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** In the module "City and House", students acquire fundamental knowledge of urban planning and design as well as methodical-technical instruments used in urban development and urban planning. The module also includes basic knowledge and skills for the academic examination of architecture as well as its objective and differentiated evaluation, a conceptual approach to the design coupled with typological and functional parameters of buildings. Students acquire the ability to recognize functional requirements of architecture in connection with spatial, constructional and social aspects. Students gain in-depth knowledge and a fundamental understanding of typologies of public sector construction, and the congruence between use and structural design in connection with spatial, structural aspects. At the same time, students acquire a critical awareness of architecture and its socio-sociological background. **Other competencies and skills (Communication and cooperation):** In addition to training subject-related communication skills, students are able to reflect on team processes and are sensitized to the specific features of cooperative and social design processes and are able to use appropriate methods for this purpose. After participating in the module, students will be able to moderate conceptual processes and constructively solve thematic and social challenges arising during group work using selected methods.
Credit Points	8 CP
Module Courses	BBK234 The Principles of Urban Planning (Lecture) BBK235 Basic Principles of Urban Planning (Tutorial) BBK233 The Principles of Building Theory BBK236 The History of Urbanization (Engl.)

Course Title	**The Principles of Urban Planning (Lecture)**
Course Title (German)	Grundlagen Städtebau
Course Number	BBK234
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Within the framework of the course "Principles of Urban Planning", students acquire basic knowledge of urban development and urban planning. This includes the competence to understand cities in their structural and functional structure and in their social contexts, to place today's urban development in a historical context and to analyze urban structures and recognize typological urban components. The course also imparts theoretical basics on urban planning and urban design.
Topics/Course Contents	• Overview of urban development and planning as well as historical urban development. • Urban structure and urban components • Theoretical principles of urban design: forms of urban grouping, design of public space and living environments, techniques of visual representation and presentation of plans. • Principles of urban development planning and planning processes • Informal planning processes and governance: informing and communicating, moderation and mediation • Future tasks: Historical city and globalization, theories and changing tasks in urban planning
Credit Points	2 CP

Course Title	**Basic Principles of Urban Planning (Excercises)**
Course Title (German)	Grundlagen Städtebau (Übung)
Course Number	BBK235
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Within the framework of the course "Basic Principles of Urban Planning - Tutorial", basic knowledge of design methods is imparted on a practical level. This includes basic skills in perception, analysis, design and interpretation of urban structures by means of a number of exercises.
Topics/Course Contents	• Perception and analysis of urban structure • Determining, understanding and building urban structures • Exercises in urban planning design • Design and visual representation methods of urban planning.
Credit Points	2 CP

Course Title	**The Principles of Building Theory**
Course Title (German)	Grundlagen der Gebäudelehre
Course Number	BBK233
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	Typological and analytical examination of various construction tasks on the basis of outstanding examples of architecture. Students are familiarized with building typology laws.
Topics/Course Contents	Introduction to the typologies of housing and public construction in the field of administrative buildings, libraries, schools, museums, places of worship, sports and traffic structures. Understanding the congruence between use and structural design. Acquisition of basic knowledge in connection with spatial, structural and constructional aspects.
Credit Points	2 CP

Course Title	**The History of Urbanization (Engl.)**
Course Title (German)	Stadtbaugeschichte
Course Number	BBK236
Language of Instruction	English
Recommended Semester(s)	2
Course offered in	Every semester
Competencies	In the course, a compact overview of the history of urbanization from early cultures up to the 21st century is given. Students acquire basic knowledge about the history of urbanization considering current urban planning and construction responsibilities, in particular considering the question of how to deal with cultural heritage facing the current challenges of urban development. Physical and constructed forms of urban space and pertaining social development processes are analyzed and viewed in a cultural context as well as in terms of the history of ideas. The processes of change in towns and cities are especially taken into account and investigated more thoroughly on the basis of significant examples.
Topics/Course Contents	• Introduction: overview of the history of urban planning and construction and its significance for current urban development responsibilities • Ancient history and protohistory: topographic location, public and cultic buildings, residential units, fortifications • Antiquity: topographic location, public and cultic buildings, residential units, fortifications • Middle Ages: city founding, idealized townscapes, quarters, streets, squares • Renaissance / Baroque: ideal, planned and fortress cities • Industrialization: urban processes of growth and change • 20th century: guiding principles of urban planning and resulting spatial structures • Presence: history of urbanism and current responsibilities in urban development
Credit Points	2 CP

Module Title	**Project B: Scientific Work**
Module Title (German)	Projekt B: Wissenschaftliches Arbeiten
Code	2050
Language of Instruction	German
Recommended Semester(s)	2
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Students acquire the ability to familiarize themselves with and apply approaches and methods in the field of scientific work. They are able to understand the requirements of scientific work with regard to verifiability and copyright and apply them to their own work. After participation in module 2040 they have broad and integrated knowledge of research methods in library and archive catalogues, specialist databases and on the internet and can evaluate sources in terms of their scientific content. Students understand the most important theories, principles and methods such as collecting, systematizing and analyzing material and learn how to transfer these to text. They are able to collect and evaluate relevant information, especially in the fields of architectural history, built heritage conservation, archaeology and art history, and interpret it in accordance with various objectives. **Other competencies and skills (Communication and cooperation):** Participation in Project B enables students to understand and apply the principles of scientific work. This includes methodological knowledge of the analysis and citation of sources as well as the preparation and production of scientific texts under the guidance of the lecturers. Students learn appropriate work techniques, presentation techniques, team and communication skills, and intercultural skills.
Credit Points	8 CP
Module Courses	BBK243 Academic Writing

Course Title	**Academic Writing**
Course Title (German)	Wissenschaftliches Arbeiten
Course Number	BBK243
Language of Instruction	German
Recommended Semester(s)	2
Course offered in	Every semester
Topics/Course Contents	• On the basis of the researched literature and sources and/or of the object, students independently write an academic paper on a research question they have formulated themselves. • The paper can include topics dealing with a social or historical phenomenon and consists of a concept study and a written paper. • The focus is on the scientific standards of plausibility through the correct use of quotations, bibliographies, references and compliance with the relevant provisions of copyright law. • Students are assisted during the work process by regular corrections by the supervisors as well as by means of the presentation and review/evaluation of the work in plenary.
Credit Points	8 CP

Module Title	**Building Documentation and Geographic Information System (GIS)**
Module Title (German)	Baudokumentation und Geo-Informationssysteme (GIS)
Code	3000
Language of Instruction	German
Recommended Semester(s)	3
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Students possess the ability to understand and apply approaches and methods in the field of various planning procedures in the spectrum ranging from urban and rural landscapes to individual buildings or reconstruction measures. After taking part in the courses of module 3000, they have broad knowledge of the way authorities and other planning stakeholders are organized and of the systematization and analysis of planning-relevant information in databases and geographical information systems. The students understand the systematics of German heritage protection law and can assign the relevant legal institutes to the regulations. Students are able to develop reasoned solutions to problems when dealing with architectural heritage and develop them further together with their knowledge of the legal bases in this field and apply them to practical examples. **Other competencies and skills (Communication and cooperation):** In addition to training subject-related communication skills, students are able to reflect on team processes and are sensitized to the special features of cooperative and social design processes and are able to use appropriate methods for this purpose. After participating in the module, students will be able to moderate conceptual processes and constructively solve thematic and social challenges arising during group work using selected methods.
Credit Points	8 CP
Module Courses	BBK324 Surveying, Historical Building Research BBK315 Systemization, Databases, GIS

Course Title	**Building Surveying and Historic Building Research**
Course Title (German)	Bauaufnahme und Dokumentation
Course Number	BBK324
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students acquire knowledge of the basics of building surveying and building documentation and determine specific building information as a planning basis for construction measures, redevelopment and building evaluations as well as for historical analyses of buildings. They acquire a sound knowledge base on the methods of building research, room book, photo documentation and description of findings. Acquisition of professional competence in the analysis of existing building substance in relation to structure, form, construction and state of preservation.
Topics/Course Contents	Deformation-true building survey - preparation of plan material in horizontal and vertical image planes as manual measurements as well as CAD drawings - focus is on a building survey as a manual measurement. However, other methods of building surveys e.g. with surveying equipment, photo rectification and "Structure from Motion" are presented - mapping of findings and damage, creation of a room book - building description and evaluation of findings.
Credit Points	4 CP

Course Title	**Systemization, Databases, GIS**
Course Title (German)	Systematisierung, Datenbanken, GIS
Course Number	BBK315
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students work on the topics that are necessary for a systematic collection and evaluation of materials and are able to participate in expert discussions on the use and future of geoinformation systems in dealing with architectural heritage. They acquire a sound knowledge base in digital cataloguing, indexing/semantics, search options and the linking of databases and geoinformation systems. Acquisition of expertise in individual database programs and GIS systems, from commercial software to open source products.
Topics/Course Contents	• Systematization of information, which can be very different findings that are necessary for scientific evaluation or planning concepts, e.g. mapping of urban and countryside situations, damage and work on buildings or walls, • Basic principles and exercises on semantics according to the question in hand and the objective • Introduction to database structures and database programs • Introduction to geoinformation systems • The above steps are implemented in theory and in practical exercises
Credit Points	4 CP

Module Title	**History of Architecture and History of Art**
Module Title (German)	Baugeschichte und Kunstgeschichte
Code	3030
Language of Instruction	German
Recommended Semester(s)	3
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Based on the knowledge acquired in the module Architectural History and Archaeology, knowledge about the entire spectrum of historical buildings and their urban planning context will be expanded and supplemented by the topic of art history. Students acquire the ability to understand and evaluate the fundamentals of modern architectural history and art history. After participating in the courses of module 3032, they have broad and integrated knowledge and a critical awareness of historical architecture from the 16th - 20th centuries and the art objects of that period and their social-sociological backgrounds. They can collect, evaluate and interpret relevant information, in particular from the historical spectrum since the beginning of the modern age. **Other competencies and skills (Communication and cooperation):** Through the interdisciplinary content of the course and the preparation of group presentations, students learn techniques of scientific work and acquire the ability to empathize and to communicate their own subject-related opinions.
Credit Points	8 CP
Module Courses	BBK335 History of Architecture from 16th till 20th Century BBK333 Introduction to History of Art BBK334 History of Art Seminar BBK336 Special Fields of History of Architecture II (Engl.)

Course Title	**History of Architecture from 16th till 20th Century**
Course Title (German)	Baugeschichte vom 16.- 20. Jahrhundert
Course Number	BBK335
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Knowledge of European architecture and its constructors in the context of the respective conditions of the time; history of urban development; spatial and form theory, determination of essential architectural technical terms, knowledge of the most significant forms of construction, practicing methods of historical-critical work. Embedding historical buildings and cities in their current and historical context.
Topics/Course Contents	Examination of the historical spectrum from the epochs of baroque and classicism to the architecture of the 20th century. Includes important examples of architecture from the 16th to the 20th century. Categorization in the context of the historical and biographical conditions.
Credit Points	2 CP

Course Title	**Introduction to History of Art**
Course Title (German)	Einführung in die Kunstgeschichte
Course Number	BBK333
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	The course offers an introduction to the epochs of art history from the late Middle Ages to the present. In particular, the genres architecture, sculpture, painting, graphic art, handcraft and photography are covered. Using examples, the students learn about the basic methods of art history, i.e. examining and interpreting objects. For this purpose, pioneering art theorists and their approaches are examined. The lecture is offered in combination with the seminar, in which the contents of the lecture are further explored.
Topics/Course Contents	Students are given an overview of the epochs of art history from the late Middle Ages to the present day. They learn to recognize the essential stylistic features and to classify works of art in terms of time and place of origin. They learn the basic methods of art history using various objects and gain an insight into art theory.
Credit Points	2 CP

Course Title	**History of Art Seminar**
Course Title (German)	Kunstgeschichtliches Seminar
Course Number	BBK334
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students work on the topics of examining, describing, analyzing and classifying works of art and are able to follow expert discussions in the field of art history. They acquire further knowledge of the systematic overview of the basics of painting, sculpture, photography and architecture and improve their skills in the temporal, stylistic and geographical classification of the artistic artefacts.
Topics/Course Contents	• Description and analysis of paintings, sculptures and architecture. • Visits to museums and excursions are planned in this context. • Insights into art theory, iconography and iconology • Identification of epoch-typical style characteristics • Classification of works of art in a temporal and regional context • Examining objects • Introduction to various objects, artists, periods of origin and social backgrounds
Credit Points	2 CP

Course Title	**Special Fields of History of Architecture II (Engl.)**
Course Title (German)	Sondergebiete der Baugeschichte II
Course Number	BBK336
Language of Instruction	English
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students work on topics related to European architecture, selected buildings, and their erectors in the context of the respective conditions of the time from the 16th to the 20th century. This enables students to participate in technical discussions in the area of architectural history and cultural heritage protection. Students acquire more profound knowledge about stylistic eras (renaissance, baroque, classicism, style architecture and modernity), important construction forms, and professional competence in putting historic buildings and towns in a current and historical context. Students learn about the method of historical-critical work based on own elaborations and learn to apply scientific working methods.
Topics/Course Contents	• Different topic areas dealt with in the lecture on building history (16th – 20th century) are addressed in more detail • Research/examinations, presentations, and papers on individual regions, construction types, and/or epochs • Topics are partially linked to the content of the History of Art Seminar • Putting into historical and biographical context
Credit Points	2 CP

Module Title	**Basics of Built Heritage Conservation**
Module Title (German)	Grundlagen der Denkmalpflege
Code	3050
Language of Instruction	German
Recommended Semester(s)	3
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** In the course Basics of Built Heritage Conservation, students receive an overview of the history and theory of built heritage conservation, of institutions and legal bases of heritage protection and built heritage conservation and receive an insight into planning processes in designing with the existing. Students understand the most important theories, principles and methods for dealing with architectural heritage in different times and societies. This includes criteria for the evaluation of building substance and the identification of the value of existing historical buildings. Students can collect, interpret and evaluate relevant information on a historical listed building or ensemble. They can formulate subject-related standpoints and problem solutions and support them with arguments. **Other competencies and skills (Communication and cooperation):** In addition to training subject-related communication skills, students are able to reflect on team processes and are sensitized to the specific features of cooperative and social design processes and are able to use appropriate methods for this purpose. Through the practice-oriented content of the course and the group work, the students acquire the ability to empathize, to communicate their own subject-related opinions and the willingness to compromise with other group members.
Credit Points	6 CP
Module Courses	BBK323 History and Theory of Built Heritage Conservation BBK313 Process Management in Built Heritage Conservation BBK314 Legal instruments for cultural heritage measures

Course Title	**History and Theory of Built Heritage Conservation**
Course Title (German)	Denkmalpflege Geschichte und Theorie
Course Number	BBK323
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students work on the topics of history and theory of built heritage conservation as well as the identification of the value of historical buildings as a basis for practical courses of action. They are able to participate in expert discussions about the properties of built heritage and the resulting conservation requirements of historical buildings and sites. They have sound knowledge of the principles of built heritage conservation and scientific methods and are familiar with debate on built heritage conservation of the past and present. Acquisition of specialist skills in the various fields of built heritage conservation and their application using practical examples.
Topics/Course Contents	• The historical development and the accompanying theories of built heritage conservation as well as the most important international charters and heritage protection laws are presented and examined in depth. • The diverse tasks of practical built heritage conservation, from recording and inventory, to the use, the planning and structural implementation in accordance with guidelines for heritage conservation, up to building maintenance are presented. • On the basis of heritage conservation projects, the way historical monuments are dealt with is evaluated in the context of current heritage-related and social developments.
Credit Points	2 CP

Course Title	**Process Management in Built Heritage Conservation**
Course Title (German)	Prozessmanagement in der Denkmalpflege
Course Number	BBK313
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students work on selected topics in the field of architecture in a historical context, including planning processes and their responsibilities and are able to participate in expert discussions on the further development and conservation of architectural heritage. Students have sound knowledge of organizational structures and responsibilities of different offices and authorities and knowledge of the current status and future developments. Acquisition of professional skills in the topics of the various disciplines which are important for the work in dealing with cultural heritage.
Topics/Course Contents	• Organization and structure of various authorities at the individual levels between urban and European responsibilities, such as building authorities, lower and upper heritage conservation authorities, state offices, federal offices, etc. • Fundamentals of the permission procedures for individual measures in dealing with architectural heritage • Presentation and training of the various disciplines involved in planning processes in this area. • Basic principles are taught using selected examples from practice.
Credit Points	2 CP

Course Title	**Legal Instruments for Cultural Heritage Measures**
Course Title (German)	Rechtliche Grundlagen für den Umgang mit Kulturerbe
Course Number	BBK314
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Competencies	Students understand the system and the relevant norms of the heritage protection law. They can subsume simple cases and correctly interpret the main features of selected court rulings. The references to the BauGB and the building regulations, in particular to the municipal statutes, can be located in the hierarchy of norms. They will acquire knowledge of associated and determining laws at federal and state level, of UNESCO World Heritage as well as of subsidy and tax law as far as cultural heritage is concerned. They work on the topics of urban development planning in the area of dealing with architectural heritage and are able to participate in expert discussions in this field.
Topics/Course Contents	• Status of heritage protection legislation in Germany • Brief history • hierarchy of norms • heritage protection and building law • UNESCO World Heritage • Federal Immission Control Act, Project Approval Procedure • cultural landscape • relevant topoi of heritage protection law • subsidy law • tax law
Credit Points	2 CP

Module Title	**Project C: Planning and Building in Historic Context**
Module Title (German)	Projekt C: Planen und Bauen im historischen Kontext
Code	3060
Language of Instruction	German
Recommended Semester(s)	3
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Within the framework of the project, students acquire knowledge for the development of a concept for the redevelopment or further development of a site, an ensemble of buildings or a building in line with the principles of heritage protection. The thematic spectrum ranges from the archaeological site to the building ensemble of the 70s. The focus and level of execution of the task is determined by the students themselves. The main focus of the task is the graphical representation in the form of plans and models as well as an accompanying explanatory report. **Other competencies and skills (Communication and cooperation):** In the course of the practical work, students learn processes of empathy, moderation and constructive conflict resolution. They can also critically review their role, individual resources and skills within planning groups. Participation in project C enables students to understand and apply the basics of conservation and construction in a historical context. In this context, the students acquire the knowledge to carry out a reliable analysis of the immediate and wider spatial environment, to derive fundamental decisions on conservation and construction in the historical context and to put these decisions into practice on a design level.
Credit Points	8 CP
Module Courses	BBK343 Planning and Building in Historical Context

Course Title	**Planning and Building in Historic Context**
Course Title (German)	Planen und Bauen im historischen Kontext
Course Number	BBK343
Language of Instruction	German
Recommended Semester(s)	3
Course offered in	Every semester
Topics/Course Contents	• Working on a building task in an existing building which is wide-ranging enough to enable an examination on various levels. • Redevelopment or further development of a site, building ensemble or building. • Completion / structural improvement of a historical object (buildings, open spaces and outdoor spaces...) • Thematic spectrum of the objects ranges from the archaeological site to city ensembles and individual buildings • Design project and reasons for the measures • The focus is on the graphical representation: presentation in plans, models, sketches, etc.
Credit Points	8 CP

Module Title	**Built Heritage Conservation and World Heritage**
Module Title (German)	Denkmalpflege und Welterbe
Code	4010
Language of Instruction	German
Recommended Semester(s)	4
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Within the framework of the module "Built Heritage Conservation and World Heritage", students acquire basic and advanced knowledge on how to deal with architectural heritage in the context of built heritage conservation and UNESCO World Heritage. This includes in particular the organizational and legal framework of the UNESCO World Heritage Convention and other international charters as well as the knowledge relating to the conservation and sustainable development and management of historical urban and cultural landscapes. In addition, the module teaches the basics and advanced skills of organization and the key areas of work in applied built heritage conservation, conservation and planning strategies in dealing with listed buildings and how to deal with existing historical buildings in a responsible and practice-oriented way. **Other competencies and skills (Communication and cooperation):** In addition to training subject-related communication skills, students are able to reflect on team processes and are sensitized to the specific features of cooperative and social design processes and are able to use appropriate methods for this purpose. After participating in the module, students will be able to moderate conceptual processes and constructively solve thematic and social challenges arising during group work using selected methods.
Credit Points	8 CP
Module Courses	BBK413 Cultural Heritage in International Context (Engl.) BBK414 Strategies in Built Heritage Conservation (Engl.) BBK415 Historic Urban and Cultural Landscapes

Course Title	**Cultural Heritage in International Context (Engl.)**
Course Title (German)	Baukulturelles Erbe im internationalen Kontext
Course Number	BBK413
Language of Instruction	English
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	In the course “Cultural Heritage Conservation in International Context”, an overview of culture-bound commonalities and differences in dealing with built cultural heritage in an international context is given based on important examples and case studies. In particular, this includes addressing key questions of the organization and implementation the UNESCO-World Heritage Program.
Topics/Course Contents	• Introduction: history and handling of built cultural heritage in Germany and in the context of the UNESCO World Heritage Convention • Introduction to the notions of Outstanding Universal Value, authenticity and integrity • Central questions to the notions of interculturality and transculturality in the World Heritage program • Management of UNESCO World Heritage sites – tasks and conflicts
Credit Points	4 CP

Course Title	**Strategies in Built Heritage Conservation (Engl.)**
Course Title (German)	Strategien in der Denkmalpflege
Course Number	BBK414
Language of Instruction	English
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	The course “Strategies in Built Heritage Conservation” imparts knowledge on different strategies and methods within the field of conservation on national and international standards. The students are able to analyze existing fabric and historic places in regard to their significance on the basis of scientific approaches. They are able to develop a policy for historic sites being the basis of particular measures and methods. The students learn the basics of the conservation and management process in historic context.
Topics/Course Contents	• Depiction of the conservation of built heritage with respect to their specific historical functions, constructions and building structures by means of case studies • Different fields of conservation such as Building Conservation, Urban Conservation and Garden Conservation • Definitions and concepts of the prevalent methods of preservation such as building survey and building documentation, conservation, restoration, renovation, maintenance, repair and rehabilitation as well as reconstruction. • Presentation of several action strategies against the background of historic and recent conservation theories • Communication with potential project partners, historic monuments protection authorities and state offices for historic monuments also in regard to organization and methods of operation
Credit Points	2 CP

Course Title	**Historic Urban and Cultural Landscapes**
Course Title (German)	Historische Stadt- und Kulturlandschaften
Course Number	BBK415
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	In the course, basic knowledge about the central questions of how to deal with complex and large urban and cultural landscapes is imparted, in particular in view of their conservation and sustainable development as well as conflict resolution strategies.
Topics/Course Contents	• Introduction: UNESCO World Heritage – history and development • UNESCO World Heritage: organization, stakeholders, and administration • Historic urban and cultural landscapes in the UNESCO World Heritage Program: role, questions, stakeholders, potential for conflict • Urban and landscape heritage protection: legal prerequisites • Strategies and instruments for preserving and securing historic urban and cultural landscapes
Credit Points	2 CP

Module Title	**Cultural Heritage and Communication**
Module Title (German)	Kulturerbe und Vermittlung
Code	4020
Language of Instruction	German
Recommended Semester(s)	4
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Students are able to understand, analyze and evaluate all development and planning tasks in the field of architectural heritage and the associated tasks of concept and design as well as implementation and management with regard to the associated communicative mediation tasks. They are able to design and initiate subsequent communication measures. In this context, they will become familiar with and apply various forms of participation, co-determination and public relations work. They are able to initiate participation processes and to incorporate them conceptually in planning processes in the field of architectural heritage. They have broad cross-sectional knowledge of intermedial formats of information, interaction, networking and collaboration and can use this knowledge to support internal and external communication in the context of architectural heritage processes. This also includes the methodological competence to find innovative solutions with regard to the creative communication of architectural heritage issues using integrated communication and cross-media strategies. **Other competencies and skills (Communication and cooperation):** Students have learned to activate target group- and media specific communication and cooperation competencies as essential skills in the formulation and implementation of architectural heritage processes. Particularly with regard to self-regulation and self-organization, self-efficacy and self-design, they are able to apply these skills to their own learning behavior in the context of the problem-solving and project-oriented course format. They are well prepared to expand the conceptualization skills they have acquired with regard to transdisciplinary, intercultural and international perspectives. Team building, design and network thinking as well as other patterns of collaborative action are experienced as key competences and practiced independently in order to successfully handle complex tasks and find innovative solutions as well as to apply acquired knowledge to other tasks.
Credit Points	6 CP
Module Courses	BBK423 Communication in Context – Mediation and Participation BBK424 Communication in Process – Methods and Practice

Course Title	**Communication in Context – Mediation and Participation**
Course Title (German)	Kommunikation im Kontext - Vermittlung und Beteiligung
Course Number	BBK423
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	Students learn to understand the field of architectural heritage – depending on the context and target group - as a context of meaning that is open to interpretation in order to recognize different mediation tasks with regard to informing and motivating the public to participate. In particular, they are familiar with procedures for participation in planning processes and are also able to design suitable participation formats with a high public profile. Their ultimate objective is to make informative, communicative and interactive contributions to the preservation and development of historical buildings. To this end, they will learn how to discuss and articulate specific conceptualizations and ways to describe planning processes that will appeal to media, and how to apply these using case studies.
Topics/Course Contents	The explanatory, descriptive and communication potential of various case studies will be explored from different perspectives and using a variety of questions with regard to selected presentation and media formats.
Credit Points	2 CP

Course Title	**Communication in Process – Methods and Practice**
Course Title (German)	Kommunikation im Prozess - Methoden und Praktiken
Course NUmber	BBK424
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	Students acquire the ability to identify architectural heritage topics with regard to strategic objectives. They learn to combine these with target-oriented presentation and communication strategies and to use suitable methods to communicate these in an action-oriented as well as media- and target group specific way. They learn to concretize mediation tasks in the context of broader communication scenarios, to implement them in qualified creative concepts as well as to communicate them as briefings to different stakeholders of society. The overarching objective of the course is to identify the specific mediation and innovation potential of intermedial communication and cooperation formats and - on the basis of efficient innovation methods - to use this in an inter- and transdisciplinary way for the benefit of appropriate use concepts in the field of architectural heritage. As a result, the students learn to turn the preparatory creative and briefing concepts into project-related and thematically focused media concepts, and - where possible - to transfer these into functional prototypes and to optimize them in terms of effect.
Topics/Course Contents	Embedded in general strategy scenarios, selected intermedial formats are examined and applied to specific tasks with regard to their media specific characteristics as well as their presentation and communication potentials for architectural heritage by using exemplary methodological toolboxes and creative practices.
Credit Points	4 CP

Module Title	**Project Management in Historic Context**
Module Title (German)	Projektmanagement im historischen Kontext
Code	4030
Language of Instruction	German
Recommended Semester(s)	4
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** The objective is to develop students' skills and professional competences in dealing with projects in a historical context and to sensitize them to the subject matter. Students acquire the ability to understand and apply approaches and methods in the field of project management and project development with a focus on existing properties and to develop them using examples from practice. Participation in the courses of the module "Project Management in Historical Context" imparts knowledge about planning and permission processes with a focus on expertises and development of existing objects in the area of built heritage preservation as well as new planning projects in a historical context. In the module "Project Management in Historical Context", students acquire knowledgeof the steering activities for these processes. These include cost and schedule planning as well as quality management. The course "Project development and heritage" rounds the module off. Methods and knowledge about this very important process for construction and redevelopment projects are taught in lectures and tutorials so that students understand the connection between economic, functional and planning permission-related requirements for project development, especially for objects in a historical context. **Other competencies and skills (Communication and cooperation):** After participating in the module, students will be able to moderate conceptual processes and constructively solve challenges of a thematic, social or economic nature using selected methods. They will learn how to deal professionally with team- or process-related conflicts and to solve them constructively.
Credit Points	6 CP
Module Courses	BBK433 Basic Skills for Project Management BBK434 Real Estate Economics BBK435 Project Development in Heritage Conservation

Course Title	**Basic Skills for Project Management**
Course Title (German)	Grundlagen der Projektsteuerung
Course Number	BBK433
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	The objective of the lecture is to give students an insight into the basics of project management. Especially in the case of existing properties and listed buildings where every aspect of design work on the property requires specific knowledge and appropriate strategies, proficient project management offers advantages not only to the builder but also to other parties involved in the project. This includes, for example, a clear and comprehensive formulation of the task and thus greater security for project implementation, improved transparency and communication for everyone involved in the project thanks to the professional preparation, organization and documentation of information and additional quality, cost and deadline controls in the interests of the client.
Topics/Course Contents	The following project management services and their practical application in various projects will be taught and analyzed. 1. Clarification of the tasks, preparation and coordination of the program for the overall project. 2. Clarification of the prerequisites for the deployment of planners and other professional parties involved in the planning process (project participants). 3. Drawing up and monitoring organizational, scheduling and payment plans relating to the project and project participants. 4. Coordination and monitoring of the parties involved in the project, with the exception of the construction company. 5. Preparing and supervising the participation of those affected by the planning process. 6. Forward projection of the planning objectives and clarification of conflicting objectives. 7. Ongoing information of the contracting authorities on the progress of the project and securing decisions by the contracting authorities in good time; 8. Coordinating and monitoring the handling of financing, funding and permission procedures. In addition, students are familiarized with project management tools such as scheduling methods, technical building calculations and team-building measures.
Credit Points	2 CP

Course Title	**Real Estate Economics**
Course Title (German)	Immobilienökonomie
Course Number	BBK434
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	The lecture gives an introduction to the fundamentals of real estate economics, focusing on the calculative practices in the establishment of international real estate markets. How is the value of a local property perceived and assessed internationally? The role of the real estate industry in the conservation and development of built substance, the importance of economic considerations in planning and execution are presented and analyzed on the basis of concrete examples. In addition, students acquire knowledge of the functional aspects of real estate investment and funding, real estate analysis and valuation as well as real estate marketing.
Topics/Course Contents	• Introduction to real estate economics • Phase-oriented aspects of real estate management • Function-specific aspects of real estate management • Strategic aspects of real estate management • Life cycle of real estate
Credit Points	2 CP

Course Title	**Project Development in Heritage Conservation**
Course Title (German)	Projektentwicklung in der Denkmalpflege
Course Number	BBK435
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	Built heritage conservation can rely on a substantial set of methodological instruments to fulfil its task. As a rule, the legal framework is also clear. Nevertheless, contradictory opinions may arise among experts and the general public about planned built heritage conservation projects. In such situations, independent expert opinions are required which, based on a reliable analysis of the problem, present clear, comprehensible and plausible arguments so that long-term decisions can be made accordingly. Internationally recognized basic principles and guidelines of built heritage conservation show the way forward in this respect. The preparation of feasibility studies is therefore a highly responsible task which, beyond political considerations, is bound solely to the subject of the expertise and demands undisputed integrity and independence from the authors. Students understand the requirements of project development and its associated planning. This includes in particular the application of the laws and associated guidelines for development plans as well as the building regulations of the respective federal state. Students examine the phases of project development, acquire knowledge about project development strategies and learn to assess the risks and opportunities of a project idea and construction task in the sense of a feasibility study from the perspective of built heritage conservation.
Topics/Course Contents	The following basics and skills are taught: - Procedure and requirements for project development - The phases of project development - Opportunities and risks in project development - Market analyses and evaluation of various sites by establishing evaluation criteria - Development calculations for initial estimation of the necessary investment - Assessment of the planning situation in the public sector.
Credit Points	2 CP

Module Title	**Project D: Assessment and Development in Historic Context**
Module Title (German)	Projekt D: Bewerten und Entwickeln im historischen Kontext
Code	4040
Language of Instruction	German
Recommended Semester(s)	4
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Further study of the documentation as well as the analysis and site analysis of existing buildings with regard to the value and conservation value of historical individual buildings, ensembles and urban structures. Students learn to apply the methodical basics of architectural heritage conservation and urban built heritage conservation and to use them in a concrete practical example in individual and group work with various tasks. Preparation of databases, value plans, expert opinions, etc. with the aim of sustainable development of historical sites, e.g. for the preparation of utilization concepts, built heritage conservation plans, recommendations for action, design guidelines, conservation statutes, etc. Students acquire further knowledge of archival research and scientific work and of different protective instruments. **Other competencies and skills (Communication and cooperation):** Participation in Project D enables students to understand and apply the basics of process management and project development. Students will also acquire analytical skills to be able to reflect on these processes, to set priorities in decision-making processes and to put them in a meaningful order. Students learn appropriate work techniques, presentation techniques, team and communication skills, and intercultural skills. They practice communication with project partners such as heritage conservation authorities, offices for the protection of listed buildings, stakeholders in the field of building, planning as well as owners and residents of listed buildings.
Credit Points	8 CP
Module Courses	BBK443 Bewerten und Entwickeln im historischen Kontext

Course Title	**Assessment and Development in Historic Context**
Course Title (German)	Bewerten und Entwickeln im historischen Kontext
Course Number	BBK443
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Topics/Course Contents	• Selected examples will be used to take stock and analyze the current situation. • As a rule, the project deals with an area under heritage protection, which is examined and developed using questions relating to heritage conservation, planning law and design. • Depending on the topic, built heritage conservation concepts, usage concepts, design guidelines, etc. can be worked on. • In the project, students learn about and apply legal basics such as heritage protection law, building code, building regulations etc. • In some cases, it is possible to combine it with Project C. If necessary, parts can be used as preparatory work for further projects/modules and vice versa.
Credit Points	8 CP

Module Title	**Required Elective: Interdisciplinary Skills**
Module Title (German)	Wahlpflicht: Überfachliche Kompetenzen
Code	4050
Language of Instruction	German
Recommended Semester(s)	4
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Broadening and deepening specialist knowledge and instrumental, systemic, and communicative skills, according to inclination and interests. **Other competencies and skills (Communication and cooperation):** Students learn appropriate work techniques, presentation techniques, team, communication and intercultural skills, and the ability to research literature.
Credit Points	2 CP
Module Courses	Selection from Course Offer at Competence & Career Center Selection from Course Offer at Language Center

Course Title	**Selection from Course Offer at Competence & Career Center**
Course Title (German)	Auswahl aus dem Angebot des Competence & Career Center
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	Competencies vary within the Course Offer at Competence & Career Center.
Topics/Course Contents	Selection from Course Offer at Competence & Career Center
Credit Points	2 CP

Course Title	**Selection from Course Offer at Language Center**
Course Title (German)	Auswahl aus dem Angebot des Sprachenzentrums
Language of Instruction	German
Recommended Semester(s)	4
Course offered in	Every semester
Competencies	Basic or advanced language courses within the offer at Language Center
Topics/Course Contents	Selection from Course Offer at Language Center
Credit Points	2 CP

Module Title	**Building Preservation and Restoration**
Module Title (German)	Bauwerkserhaltung und Instandsetzung
Code	5010
Language of Instruction	German
Recommended Semester(s)	5
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** After participating in the courses of the module Building Preservation and Restoration, the students will have acquired broad and integrated knowledge of the structure and properties of the building materials stone, wood, iron or steel and concrete. They are able to recognize the extent and causes of material damage and to evaluate them using suitable examination methods or test procedures. Students can name strategies and procedures with regard to careful building restoration in line with heritage conservation principles and are able to evaluate and use methods for restoration and/or redevelopment in a target-oriented way. **Other competencies and skills (Communication and cooperation):** After participating in the module, students will be able to moderate conceptual processes and constructively solve challenges of a thematic, social and technical nature arising during group work using selected methods. The combination of content input with individual and group activities as well as a final summary with a view to the next course makes it easier for students to acquire interdisciplinary competences and to relate the contents of different lectures to each other.
Credit Points	10 CP
Module Courses	BBK515 Building survey and damage assessment BBK514 Building Damage and Restoration BBK513 Restoration-Related Materials Science

Course Title	**Building Survey and Damage Assessment**
Course Title (German)	Bauerkundung und Schadensbeurteilung
Course Number	BBK515
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Competencies	Within the framework of the course Building Survey and Damage Assessment, students acquire the ability to carry out fundamental building surveys, to recognize damage and to evaluate its cause and extent by means of suitable examination methods or test procedures. Students learn to carry out basic building surveys and building material examinations on site or in the laboratory and to interpret the results. They are familiar with specific laboratory examination methods and are able to plan their use with regard to the targeted assessment of a cause of damage. The students are familiar with the functions, possibilities and limitations of further (non-destructive) survey methods and are able to evaluate the various procedures with regard to their use on listed buildings.
Topics/Course Contents	• Basic building survey approaches and methods • Basic optical building survey methods • Survey methods for the internal structural condition of building components • Non-destructive survey methods • Surveys of the building material concrete • Surveys of masonry made of natural or artificial stone • Surveys of the building material wood • Surveys of the building material steel • Examination of building ground
Credit Points	4 CP

Course Title	**Building Damage and Restoration**
Course Title (German)	Bauschäden und Bausanierung
Course Number	BBK514
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Competencies	The course Building Damage and Restoration is linked to the contents of the courses ´Building Survey and Damage Assessment´ and ´Restoration-Related Material Science´. On the basis of identified defects and damage to the building structure, students are able to name principles, strategies for action and procedures with regard to careful building restoration in line with heritage conservation principles. They are familiar with the methods for the renovation or redevelopment of existing buildings and are able to evaluate them in accordance with heritage conservation, aesthetic and technical requirements.
Topics/Course Contents	• Approach to a restoration task • Methods of restoration in accordance with heritage conservation requirements • Concrete restoration • Masonry restoration • Restoration of wooden structures • Restoration of steel structures • Building ground improvement
Credit Points	2 CP

Course Title	**Restoration-Related Materials Science**
Course Title (German)	Instandsetzungsbezogene Materialkunde
Course Number	BBK513
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Competencies	After participating in the course Restoration-Related Materials Science, the students have broad and integrated knowledge of the structure and properties of the building materials stone, wood, iron or steel and concrete. They are able to identify and evaluate the causes of material damage. With regard to restoration measures, students are familiar with the use and compatibility of materials in accordance with heritage conservation requirements.
Topics/Course Contents	• General materials science (stone, wood, iron/steel, concrete, mortar) • In-depth examination of historical building materials • Material-related structural damage • Methods of material damage prevention • Material-related aspects during restoration
Credit Points	4 CP

Module Title	**Indoor Space Conditioning and Energy-Efficient Restoration**
Module Title (German)	Raumklima und Energetisches Sanieren
Code	5020
Language of Instruction	German
Recommended Semester(s)	5
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** The students acquire the ability to recognize and consciously use the different building physics and technical building parameters of indoor climate as tools of architectural design. In addition, in-depth knowledge of the targeted optimization of the energy requirements of existing buildings will be trained and developed into the ability to evaluate these in the context of a comprehensive concept of sustainability. **Other competencies and skills (Communication and cooperation):** Students learn appropriate work techniques, presentation techniques, team, communication and intercultural skills, and the ability to research literature. After participating in the module, students will be able to moderate conceptual processes and constructively solve thematic and social challenges arising during group work using selected methods.
Credit Points	4 CP
Module Courses	BBK524 Energy-Efficient Restoration BBK523 Indoor Space Conditioning Basics

Course Title	**Energy-Efficient Restoration**
Course Title (German)	Energetisches Sanieren
Course Number	BBK524
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Competencies	The course provides in-depth knowledge of the application of architectural strategies, building physics principles and technical building systems for the targeted optimization of the energy requirements of existing buildings. Students will be enabled to understand the interrelatedness of complex building technology and building physics, to evaluate the individual combination of different systems and measures and to understand the energy-related life cycle processes of buildings. Students will develop an understanding of the relevance of energy-relevant measures in the context of a comprehensive concept of sustainability, with special consideration being given to aspects of conservation
Topics/Course Contents	• While discussing a far-reaching concept of sustainability, the various measures for improving energy supply and resource consumption in the renovation and operation of existing buildings are critically analyzed and, taking into account human comfort requirements and climatic influencing factors, placed in the context of an analysis of the basic structure of the building in line with the principles of built heritage conservation. • Further examination of the basics of building technology and thermal building physics.
Credit Points	2 CP

Course Title	**Indoor Space Conditioning Basics**
Course Title (German)	Raumklima Grundlagen
Course Number	BBK523
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Competencies	Students work on the topics of indoor climate and energy efficiency and can understand and participate in expert discussions in the field of building technology and architecture. They have a sound knowledge base of the various interdependencies between indoor climate, air temperature, relative humidity, heat radiation, as well as hygienic air quality and the light properties of the room. They understand the interdependencies between the level of comfort of the human being indoors and the indoor climate. Students acquire the ability to recognize these parameters as tools of architectural design and to consciously use them in accordance with latest research findings.
Topics/Course Contents	• The necessary basics of building technology and thermal building physics are dealt with. • On the basis of human comfort requirements and climatic influencing factors, students learn about the interaction of passive and active strategies for the targeted control of indoor climatic conditions.
Credit Points	2 CP

Module Title	**Required Elective: Advanced Skills**
Module Title (German)	Wahlplicht: Vertiefende Kompetenzen
Code	5040
Language of Instruction	German
Recommended Semester(s)	5
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Broadening and deepening specialist knowledge and instrumental, systemic, and communicative skills, according to inclination and interests. **Other competencies and skills (Communication and cooperation):** The students have suitable working techniques, presentation techniques, team and communication skills, literacy and intercultural skills.
Credit Points	8 CP
Module Courses	Electives*

*The range of electives on offer is continuously updated and can therefore vary from semester to semester.

The respective current range is published in the annotated course catalog

Course Title	**Selected Chapters of Building Survey**
Course Title (German)	Ausgewählte Kapitel der Baudokumentation
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Compentencies/Learning Objectives	• Basic knowledge of different methods of building documentation • Knowledge and application of tachymetric building surveys • Creating detailed plans of a historical building
Topics/Course Contents	• Surveying, drawing, and evaluating a selected, historically interesting building or ensemble of buildings as a block seminar • Graphic analysis of the survey and preparation of ground plans, views and cross-sections, preparation of photographic documentation
Credit Points	2 CP
Module	Elective

Course Title	**CAD in Heritage Conservation**
Course Title (German)	CAD in der Denkmalpflege
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies/Learning Objectives	Familiarization with qualitative and quantitative requirements for CAD drawings for the object-oriented representation of architectural heritage. Ability to evaluate the 2D and 3D tools of existing CAD software in relation to the visual representation tasks in built heritage conservation.
Topics/Course Contents	• Students learn about the requirements for CAD drawings created in the context of built heritage conservation (deformation-true, descriptive rendition). • Presentation of the required software functionalities and exemplary showcasing of existing software solutions.
Credit Points	2 CP
Module	Elective

Course Title	**Historic Building Techniques**
Course Title (German)	Historische Bautechniken
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	The course "Historic building techniques" provides students with in-depth knowledge of a building technique typical for a certain period and/or region (e.g. Roman building technique, North German brick building, modern concrete buildings, etc.). By focusing on different techniques, the seminar enables the students to familiarize themselves with all the facets and characteristics of the respective building techniques and to understand the special features of the materials and technical aspects of their construction. In addition to introductory lectures and presentations on various topics, a central component of this course is a theme-related field trip in order to provide more in-depth knowledge by means of examining actual buildings.
Topics/Course Contents	• Specific characteristics of the relevant building technique • Classification in the historical context of building techniques • Materials used • Manufacturing technique • Conservation and restoration
Credit Points	2 CP

Course Title	**Historic Urbanization**
Course Title (German)	Historische Stadtentwicklung
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	Analysis of contexts of built heritage, architecture and building culture in smaller urban spaces, districts or entire cities. Advanced knowledge of architectural and urban development history. Ability to carry out independent scientific work. Dealing with topics by means of research-based learning.
Topics/Course Contents	• Students work on a research topic of their own choice within the framework of an overarching research question in the field of urban planning. • Analysis of cities from antiquity to modern times.
Credit Points	2 CP

Course Title	**Participation and Distribution Media**
Course Title (German)	Partizipations- und Distributionsmedien
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	Knowledge of methods and techniques (e.g. web media) that enable a moderator dealing with cultural assets to involve project stakeholders and, where applicable, the public in the processes of project planning. Ability to recognize the processes for which participatory and distribution media are suitable. General media literacy.
Topics/Course Contents	• Using the example of a professional e-learning platform, the seminar shows the possibilities that current participatory and distribution media offer their users. • The students learn to work with modules such as forums, wikis, etc. and to use them for the purposes of moderation and communication. • The seminar is designed as a blended learning course and itself makes intensive use of the media it is teaching students about.
Credit Points	2 CP

Course Title	**UNESCO World Heritage Management**
Course Title (German)	UNESCO-Welterbe-Management
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	The course "UNESCO World Heritage Management" provides basic knowledge about UNESCO World Heritage Sites and their management. The course provides an introduction to this topic and is directly related to the lectures "Cultural heritage conservation in an International context" and "Historic urban and cultural landscapes". The required elective course expands on their content by discussing current issues in the management of UNESCO World Heritage Sites, which are illustrated and discussed by means of practical case studies and a field trip.
Topics/Course Contents	• UNESCO World Heritage: Key stakeholders • UNESCO World Heritage: Management tasks • UNESCO World Heritage: Management tools • UNESCO World Heritage: Practical management issues and case studies • UNESCO World Heritage Management: In-depth examination in practice (field trip)
Credit Points	2 CP

Course Title	**UNESCO World Heritage Management (Advanced Skills)**
Course Title (German)	UNESCO-Welterbe-Management (Vertiefung)
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	The course "UNESCO World Heritage Management (advanced skills)" builds directly on the lectures "Cultural heritage conservation in an international context" and "Historic urban and cultural landscapes". It provides deeper insight into current questions of the management of UNESCO World Heritage Sites. In consultation with the lecturer, students can analyze a case study of their choice in more detail and prepare an exposé on the subject.
Topics/Course Contents	• UNESCO World Heritage Management: Questions and tasks in historic urban landscapes • UNESCO World Heritage Management: Questions and tasks in cultural landscapes • UNESCO World Heritage Management: Conflicts and evaluation methods • UNESCO World Heritage Management: Conflicts, mediation, communication
Credit Points	2 CP

Course Title	**Nondestructive Building Examination Methods in Practice**
Course Title (German)	Zerstörungsfreie Erkundungsmethoden in der praktischen Anwendung
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every year
Competencies	During the course " Nondestructive Building Examination Methods in Practice" students will gain basic knowledge of the possibilities and limitations of non-destructive and minimally destructive survey methods during practical work on historical buildings. They are familiar with the theoretical backgrounds and functionalities of the methods used in the building industry and are able to plan their application in a targeted-oriented way in accordance with the specific survey objectives and the relevant structural parameters.
Topics/Course Contents	• Building survey procedures: Differentiation between destructive and nondestructive methods • Types and modes of operation of nondestructive survey methods • Possibilities and limitations of nondestructive survey methods • Nondestructive survey methods in practical use
Credit Points	2 CP

Module Title	**Project E: Restoring and Redeveloping**
Module Title (German)	Projekt E: Sanieren und Revitalisieren
Code	5030
Language of Instruction	German
Recommended Semester(s)	5
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** Project E – Restoring and Redeveloping completes the series of consecutive projects in the degree program. Students acquire the ability to plan and apply the skills they have learned in the past to a concrete construction task - from the concept idea to its detailed execution. The students are familiar with basic and specialized approaches and work steps in the renovation of a building or a section of a building. They are able to identify and evaluate damage and defects and to develop suitable measures for restoration and redevelopment. **Other competencies and skills (Communication and cooperation):** In the course of the practical work, students learn processes of empathy, moderation and constructive conflict resolution. They can also critically review their role, individual resources and skills within planning groups. Participation in Project E enables students to understand and apply the basics of the renovation and redevelopment of historical buildings. In addition, students acquire the ability to analyze and evaluate damage patterns and to develop an approach and procedure in the field of renovation and redevelopment.
Credit Points	8 CP
Module Courses	BBK543 Restoration and Revitalisation

Course Title	**Restoring and Redeveloping**
Course Title (German)	Projekt E: Sanieren und Revitalisieren
Course Number	BBK543
Language of Instruction	German
Recommended Semester(s)	5
Course offered in	Every semester
Topics/Course Contents	• building survey • recording and evaluating existing damage and defects • development of a restoration and redevelopment concept • written paper • presentation using plans or models
Credit Points	8 CP

Module Title	**Internship Phase**
Module Title (German)	Berufspraktische Tätigkeit
Code	6010
Language of Instruction	German
Recommended Semester(s)	5
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** The degree program includes several weeks of practical work experience, which is prepared, accompanied and followed up by the university. In this supervised internship, students evaluate and deepen the practical experience and knowledge they have gained during their studies. The internship is completed in a planning office (architecture or engineering office), a public authority or a construction company with a planning department. **Other competencies and skills (Communication and cooperation):** The acquisition of other competencies and skills is integrated into the module
Credit Points	15 CP
Module Courses	Internship Semester

Course Title	**Internship Semester**
Course Title (German)	Berufspraktische Tätigkeit
Language of Instruction	German
Recommended Semester(s)	6
Course offered in	Every semester
Competencies	Learning through observation and participation in planning, implementation, monitoring - Putting theory into practice; Reflection on practice - Practical application of theoretical knowledge about planning, construction, implementation and monitoring - Active participation in planning and implementation phases in the planning office and on the construction site – Participation as an observer in coordination tasks between clients, contractors, authorities and all parties involved in the planning process.
Topics/Course Contents	Activities during the internship should be in one or more of the following areas (list not exhaustive): Work planning - tendering and awarding - construction management (quality control on the construction site, company coordination, etc.) – invoicing of construction services - participation in planning and construction meetings - participation in architectural competitions or similar procedures - model making and visualization
Credit Points	15 CP

Module Title	**Bachelor's Thesis**
Module Title (German)	Bachelorthesis
Code	9050
Language of Instruction	German
Recommended Semester(s)	6
Module offered in	Every semester
Competencies	**Subject-specific and methodological competencies and skills (Knowledge and understanding as well as applying and generating knowledge):** The bachelor's thesis is the examination paper that concludes the bachelor's degree. It shows that the candidate is able to deal with a problem from his or her subject area independently according to scientific and technical methods within a given period of time. Within the scope of the bachelor's thesis, students deal with a project task from the fields of architecture, urban planning, built heritage conservation or World Heritage or prepare a paper on a subject from the field of restoration and renovation. **Other competencies and skills (Communication and cooperation):** Professional skills are acquired as an integrated part of the degree program
Credit Points	15 CP
Module Courses	Bachelor's Thesis Thesis Defense

Course Title	**Bachelor's Thesis**
Course Title (German)	Bachelor-Arbeit
Language of Instruction	German
Recommended Semester(s)	6
Course offered in	Every semester
Topics/Course Contents	The bachelor's thesis is the examination paper that concludes the bachelor's degree. Each semester there is a task which is formulated by the students themselves. The topic is taken from the subject areas of the bachelor's degree program. The work is supervised on a random basis, appointments for enquiries are available.
Credit Points	12 CP

Course Title	**Thesis Defense**
Course Title (German)	Kolloquium
Language of Instruction	German
Recommended Semester(s)	6
Course offered in	Every semester
Competencies	The students show that they are able to support the results developed in module 9050 in a given period of time as part of an expert discussion which is open to all members of the university.
Credit Points	3 CP