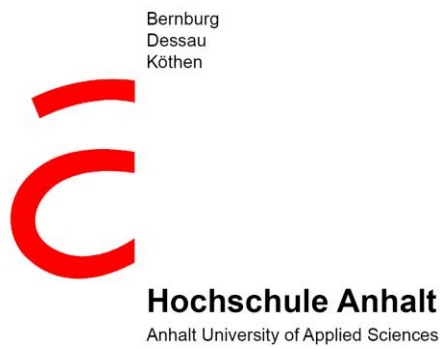


Translation



**Master Course of Study in Monumental Heritage
Module Guide**

Dessau, 03 December 2013

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Master Monumental Heritage Description of Modules 1st Semester

H1 Fundamentals					
	Workload 300 h	Credits 10 CP	Course semester 1 st semester	When offered every second semester	Duration 1 semester
1	Lessons Theory of Monumental Heritage (4 SWH) a) Lecture Fundamentals of monumental heritage b) Experimental lessons History of monumental heritage c) Exercise Monument from the new surroundings Theory of Architecture I (4 SWH) a) Lecture History of timber and half-timbered buildings b) Experimental lessons Fundamentals of wood construction c) Exercise Building measurement and building research, building space utilisation book, description of spaces		Contact time 60 h 60 h	Self-study 90 h 90 h	Intended group size 15
2	Learning Outcomes / Competences Theory of Monumental Heritage <ul style="list-style-type: none"> - The students acquire knowledge in European history and its cultural-historical background in view of the German/European history of construction. - They learn to date and to assess the façades, reproduction and structuring, colour and ornamentation, and the expression of historical structures. - The students get an overview of the different attitudes towards monumental heritage all over the world. - They learn to understand monumental heritage as a task of the society/the state. - The teaching program includes the acquisition of knowledge about legal instruments and the elaboration of master plans in monumental heritage. - This module also covers fundamental training in the understanding and application of subject-related terminology. - The students are qualified to inter-disciplinarily integrate the different subjects of humanities in discussions. <p>The introductory course shall make the students "ready for work". Their different countries of origin and professional experience are brought in line. The objective of the course segment is to familiarize the students with their new environment, its history and social backgrounds as well as the surrounding monument landscape. Strategies are taught to enable them to understand other cultural areas. They shall also understand that the motivations and attitudes regarding the subject Monumental Heritage are strongly varying around the world. The Landesamt für Denkmalpflege Sachsen-Anhalt (<i>Saxony-Anhalt State Agency for Monumental Heritage</i>) supports this course segment.</p> Theory of Architecture I <ul style="list-style-type: none"> - The students acquire knowledge about the fundamentals of the development of human construction. 				

	<ul style="list-style-type: none"> - For fundamental knowledge, cultural-historical forms of different forms of building and half-timbered structures are explained. - Knowledge of measurement methods, the elaboration of a building space utilisation book and the analysis of structures are taught and trained in practical exercises. - One aim of this course is to learn how to read the history of a building. - The way to understand the context of texture, materials and colours in monument landscapes is explained and taught. - The students' independence and certainty in the investigation of building traces shall be developed. - The knowledge and application of the terminology of organic construction are taught and trained. - The participants are enabled to apply this terminology. <p>The course shall open the students' eyes for the large group of organic structures. They are particularly suitable to learn how to read the "building traces" from history. These structures are used as entry into building research. The new experiences acquired are brought in line with the different countries of origin and cultures. This course segment is supported by the Fachwerkzentrum (<i>Centre for Half-Timbered Construction</i>) in Quedlinburg.</p>
3	<p>Contents</p> <p>Theory of Monumental Heritage</p> <ul style="list-style-type: none"> - German history in the context of Europe and the world as entry into the new culture. - Fundamentals of architectural styles, external and internal spaces, plasticity, and colourfulness of the façades - The visual perception of monuments in different contexts - History of monumental heritage in different cultures - Philosophy of monumental heritage, Charter of Venice, etc. - The actors in monumental heritage, motivations and aims - Differences in attitude and their results in practical monumental heritage - From individual monument to ensemble protection <p>Theory of Architecture I</p> <ul style="list-style-type: none"> - History of construction, climate, organic building materials - Emergence and spreading of post structures, plank structures - Development of half-timbered structures - Theory and methods of urban colour shading in different cultures, drawing and painting of the façades - Functionality of ground plans, arrangement considering agricultural constraints - 3D measurement, dendrochronology, thermography of wood structures - Excursion to the UNESCO World Cultural Heritage site Quedlinburg - Building measurement and building research at a concrete structure - Wood and half-timbered structures all around the world - Tent structures of the nomads - Loam structures
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Theory of monumental heritage</p> <p>Term paper</p> <p>Lecture: The influence of the temporal, social and local conditions on a freely chosen monument in Dessau</p> <p>Theory of Architecture I</p> <p>Building measurement, building space utilisation book, building analysis at a concrete structure of mainly organic building material (drawings and explanatory report)</p>
7	<p>Prerequisites for crediting</p>

	Accepted term paper
8	Application of the module (in other courses of study)
9	Media Blackboard/whiteboard, beamer, overhead projector
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.- Ing. Rudolf Lückmann Prof. Angelika-Christine Brzóska Dr. Ute Wendland (Landeskonservatorium LSA - <i>Saxony-Anhalt State Conservatory</i>) Dipl.-Ing. Claudia. Hennrich (Fachwerkzentrum Quedlinburg - <i>Centre for Half-Timbered Construction</i>) Prof. Stefan Pinkau Dipl.- Ing. Annemarie Reimann
11	Reference literature cf. Appendix

T1 Technology I					
	Workload	Credits	Course semester	When offered	Duration
	300 h	10 CP	1 st semester	every second semester	1 semester
1	Lessons Technical Fundamentals of Monumental Heritage (4 SWH) a) Lecture Fundamentals of historical building technology b) Exercise Proposals for the refurbishment of a historical building Building Methods and Structures Made of Organic Materials (4 SWH) a) Lecture Technology of wood and half-timbered buildings b) Exercise Freely chosen model of a bar structure		Contact time 60 h 60 h	Self-study 90 h 90 h	Intended group size 15
2	Learning outcomes / Competences Technical Fundamentals of Monumental Heritage <ul style="list-style-type: none"> - The students acquire knowledge of historical and current building materials and their properties. - They get an overview of the basic structures in the history of building. - The learn the differences in historical and modern building materials. - The course includes the acquisition of knowledge about colours in monumental heritage. - The students get an overview of the basic principles of the efficiency of projects. - Knowledge of the law in the implementation of projects is taught and discussed. - The understanding of the terminology and the ability to apply it are trained. <p>The introductory course shall explain the students the fundamentals of historical construction. The special features of the building materials and building physics are demonstrated in the context of modern refurbishment materials. At the same time, the students from different countries of origin, and with different professional experience, are made ready for work. The Landesamt für Denkmalpflege Sachsen-Anhalt (<i>Saxony-Anhalt State Agency for Monumental Heritage</i>) supports this course segment.</p> Building Methods and Structures Made of Organic Materials <ul style="list-style-type: none"> - Technological knowledge about organic building materials - Fundamentals of the construction of bar structures in the history of construction/monumental heritage/refurbishment - Knowledge of the production processes - Dendrochronology - Thermography - Common and different features of structures from the concept to the details over time and space - Colours and paint coats in the mirror of time and space - Proficiency in the use of the terminology of the technology of organic construction is taught and trained <p>The course shall familiarize the students with the large group of organic structures in their varying constructions and variants of refurbishment. This course segment is supported by the Fachwerkzentrum</p>				

	(Centre for Half-Timbered Construction) in Quedlinburg.
3	<p>Contents</p> <p>Technical Fundamentals of Monumental Heritage</p> <ul style="list-style-type: none"> - Historical Building Materials - Overview of basic structures - Bar structures - Massive structures - Damages and risks by paint coats, causes for their removal - Aims/risks of refurbishment - Complexity of design and detail - Building physics - Calculation of material/work - Profitability calculations - Warranties <p>Building Methods and Structures of Monumental Heritage</p> <ul style="list-style-type: none"> - Organic building materials, properties and parameters - Tent structures, technical light-weight structures - Weaknesses of post structures, plank structures - Carpenters' signs, joining, etc. - Construction of different bar structures - Statics of half-timbered buildings - Detail solutions in wood - Stabilisation of the half-timbered framework - Loam structures all over the world - Colour paints on organic materials - Refurbishment of half-timbered buildings - Specific constructive features of organic structures in other cultures
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Technical Fundamentals of Monumental Heritage</p> <p>Term paper</p> <p>Building Methods and Structures Made of Organic Materials</p> <p>Term paper: Model of a half-timbered structure, calculation of trimming and stabilisation, scale 1:20, with explanatory report on the regional history</p>
7	<p>Prerequisites for crediting</p> <p>Accepted term papers</p>
8	<p>Application of the module (in other courses of study)</p>
9	<p>Media</p> <p>Blackboard/whiteboard, beamer, overhead projector</p>
10	<p>Lecturer in charge of the module, and full-time lecturers</p> <p>Dr. Bode (Landesamt für Denkmalpflege LSA - <i>Saxony-Anhalt State Agency for Monumental Heritage</i>)</p> <p>Prof. Dr.-Ing. Matthias Tauber</p>

	Prof. Angelika-Christine Brzóska Prof. Dr.- Ing. Rudolf Lückmann Dipl.-Ing. Claudia. Hennrich (Fachwerkzentrum Quedlinburg - <i>Centre for Half-Timbered Construction</i>) Dipl.- Ing. Annemarie Reimann
11	Reference literature cf. Appendix

P1 Project I					
	Workload	Credits	Course semester	When offered	Duration
	150 h	5 CP	1 st semester	every semester	1 semester
1	Lessons a) Lecture Introduction in the subject b) Exercise Supplementary information, analyses, comparisons		Contact time 60 h	Self-study 90 h	Intended group size 15
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students independently elaborate a problem complex, preferably in a subject taught in H1/1, H1/2, T1/1 and T1/2. - The weighting of the proposed solution corresponds to other cultures. - The proposed solution is defended on the basis of knowledge and by means of professional terminology acquired in the basic modules. - The student learns to consider in how far his/her proposed solution can be applied in his/her homeland, or why this might not be possible. 				
3	Contents <ul style="list-style-type: none"> - <i>Introduction of the project</i> - Introduction of partner institutions, interested groups - Detailing of the task - Provision of the professional information for the project - Elaboration of a concept with proposals for solutions - Defence of the solution - Discussion in the context with solutions on other continents 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Depending on the project, a drawn, written and spoken solution, presentation in the colloquium				
7	Prerequisites for crediting Successful colloquium				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8.333 %				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.- Ing. Rudolf Lückmann Prof. Dr.-Ing. Andrea Haase Prof. Alfred Jacoby Prof. Johannes Kister				

	<p>Prof. Angelika-Christina Brzóska Dipl.- Ing. Annemarie Reimann</p>
11	<p>Other Information</p> <p>The course shall make reference to current issues in the worldwide discussion about monumental heritage. If possible, the subject shall be related to the other learning objectives of the semester. As it should, however, be open for all students of the English-spoken Master courses, freedom of subjects is intended. The subjects and the number of lecturers are agreed with the Board of Examiners before the beginning of the semester. This course segment can be supported by the World Cultural Heritage Sites, but also other institutions (e.g. foreign university, city administration, etc.)</p>

Master Monumental Heritage Description of Modules 2nd Semester

H 2 Representation					
	Workload 300 h	Credits 10 CP	Course semester 2 nd semester	When offered every second semester	Duration 1 semester
1	<p>Lessons</p> <p>Garden Heritage Preservation</p> <p>a) Lecture: Fundamentals of humanities in garden heritage preservation</p> <p>b) Experimental lessons</p> <p>c) Exercise Concept for the rehabilitation of a garden monument (together with T2/1)</p> <p>Theory of Architecture II</p> <p>a) Lecture History of representative architecture</p> <p>b) Experimental lessons Loam and stone architecture</p> <p>c) Exercise Scientific research methods, as conversion and annexing in monuments, literature investigation, archives</p>		<p>Contact time</p> <p>60 h</p> <p>60 h</p>	<p>Self-study</p> <p>90 h</p> <p>90 h</p>	<p>Intended group size</p> <p>15</p>
2	<p>Learning outcomes / Competences</p> <p>Garden Heritage Preservation</p> <ul style="list-style-type: none"> - The students acquire knowledge in the background and intentions in the recital of gardens in the history of culture. - An important component of the module is the acquisition of knowledge in major forms of gardens in the world. - The significance of colour and expression of gardens is explained. - The attendants in the module get an overview of the different views all over the world concerning garden heritage preservation. - They learn that gardens shall be understood as a social/governmental tasks. - The knowledge and application of the terminology of garden heritage preservation are taught and trained. <p>Theory of Architecture II</p> <ul style="list-style-type: none"> - The students acquire knowledge about the emergence of building in stone. - They get an insight view in the fundamentals for cultural-historical characteristics in different cultures. - The teaching of knowledge in architectural styles forms an important part of the module. - The attendants learn to understand the textures in and at monuments. - The handling of the scientific catalogue and quoting are trained. - Criticising literature and sources is trained. - The application and quoting of terminologies in scientific papers are aspects to be taught in the subject. 				
3	Contents				

	<p>Garden Heritage Preservation</p> <ul style="list-style-type: none"> - Philosophy and garden, intentions - Gardens of the antiquity, the Hanging Gardens of Babylon, the Middle East, Greece, Rome - Gardens in Asia: Persia, Old India, Mogul, China, Japan - The forgotten historical gardens in Africa and America - European gardens, monastery and farmer's gardens - Gardens in Renaissance, in Baroque, English -, historical - and garden of Modernity - Orangeries, zoos, botanical gardens - The UNESCO World Cultural Heritage Dessau-Wörlitz Gardenreich - Modifications and repair of gardens – conceptional approaches - Small architectural elements in gardens - Materiality and colourfulness of walkway paving <p>Theory of Architecture II</p> <ul style="list-style-type: none"> - <i>History of building in stone - building materials for the gods and godlike beings?</i> - Excursion to the Luther memorials - Military architecture - Emergence and spreading of stone architectures all around the world - Development of architectural styles - Façades and colour at historical representative buildings (churches, castles, patricians) - Functionality of ground plans
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Garden Heritage</p> <p>Proposals for the repair of a part of a garden (possibly in the World Cultural Heritage sights at Dessau-Wörlitz), freely chosen, or scientific article about a partial aspect of garden monument preservation, preferable together with T 2/1 to combine conceptional and technical considerations.</p> <p>Theory of Architecture II</p> <p>Elaboration of a scientific text about a concrete project, a builder master, etc.</p>
7	<p>Prerequisites for crediting</p>
8	<p>Application of the module (in other courses of study)</p>
9	<p>Weighting of the mark for the final grade</p> <p>5.8333%</p>
10	<p>Lecturer in charge of the module, and full-time lecturers</p> <p>Prof. Dr.-Ing. Rudolf Lückmann</p> <p>Prof. Dr. Erich Buhmann</p> <p>Prof. Dorothea Fischer- Leonhard</p> <p>Prof. Dr. Einar Kretzler</p> <p>Dr. Thomas Weiss (Dessau- Wörlitz Cultural Foundation)</p> <p>Prof. Dr.-Ing. Omar Akbar</p>

	<p>Dr. Stefan Rhein (Luther Memorials, UNESCO World Cultural Heritage)</p> <p>Director General Boje E. Hans Schmuhl (Stiftung Dome und Schlösser LSA - <i>Cathedrals and Castles Foundation of the State Saxony-Anhalt</i>)</p>
11	<p>Other Information</p> <p>Garden Heritage Preservation</p> <p>The course shall open the students' eyes for garden heritage preservation. The different cultures and concepts are taught together with the ones for the preservation of the garden monuments. Further it shall be explained that the motivations and attitudes towards monumental heritage vary significantly all over the world. The Cultural Foundation Dessau-Wörlitz acts as a supporting partner of this course.</p> <p>Theory of Architecture II</p> <p>The course shall introduce the large group of representative buildings to the students. These buildings are particularly suited to use them for the training of source and literature investigation, as for most of the buildings of this type, older books and articles, partly in English, are available. The entry into scientific research is freely developed by means of up-to-date subjects in monumental heritage, and shall be preferably made in a culture outside Germany. The "Stiftung Dome und Schlösser" (<i>Cathedrals and Castles Foundation</i>) and the UNESCO World Heritage sights of the Luther Memorials in Wittenberg and Eisleben act as supporting partners of this course segment. .</p>

T2 Technology II					
	Workload	Credits	Course semester	When offered	Duration
	300 h	10 CP	2 nd semester	every second semester	1 semester
1	Lessons Technical Fundamentals of Garden Heritage Preservation a) Lecture Technical fundamentals of garden heritage preservation b) Exercise Proposals for the rehabilitation of a historical garden (together with K2/1) Building Methods and Structures of Inorganic Materials a) Lecture Technology of stone buildings b) Exercise Lecture on stone refurbishment	Contact time 60 h 60 h	Self-study 90 h 90 h	Intended group size 15	
2	Learning outcomes / Competences Technical Fundamentals of Garden Heritage Preservation <ul style="list-style-type: none"> - The students are taught major fundamental technical knowledge in gardening and landscaping, with reference to the following subjects: soil, plants, climate, walkways, drainage, technical equipment Building Methods and Structures of Inorganic Materials <ul style="list-style-type: none"> - The student acquires technological knowledge of mineral building materials. - Internal and external paint coats form a part of the knowledge taught. - The acquisition of knowledge about the fundamentals of the construction of massive load bearing structures in the history of construction, in monumental heritage and in refurbishment is taught. - The handling of mineral finishing materials (tiles, plaster/rendering, paints, etc.) is also a part of the acquisition of fundamental knowledge. - The students acquire knowledge in the fabrication processes. - Similarities and differences of the structures from the concept to the detail are discussed. Different approaches to solutions all over the world are also discussed in this context. - The knowledge and application of the terminology used for the technology of mineral building materials are taught and trained. 				
3	Contents Technical Fundamentals of Garden Heritage Preservation <ul style="list-style-type: none"> - Basic knowledge in botany - Soil, climate, plants - Cultivation, times, equipment - Dendrology - Flowering times 				

	<ul style="list-style-type: none"> - Provision of walkways - Irrigation, waters, cascades, fountains - Fundamentals of zoology, basis of animal life, required ancillary buildings - Colour in garden heritage preservation - Knowledge and proficiency in the use of the terminology <p>Building Methods and Structures of Inorganic Materials</p> <ul style="list-style-type: none"> - Mineral building materials, properties and parameters - Structures of natural stone, arches, vaults - Brick architecture, bonds - Plasters, historical screed - Tiles - Paint coats on mineral building materials - Weaknesses of massive structures - Types of refurbishment of massive structures - Specific structural features of massive structures in other cultures
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Technical Fundamentals of Garden Heritage Preservation</p> <p>Term paper</p> <p>Building Methods and Structures of Inorganic Materials</p> <p>Elaboration of a concrete refurbishment aim at a massive structure, damage analysis and elaboration of a concept for preservation</p>
7	<p>Prerequisites for crediting</p> <p>Accepted term paper</p>
8	<p>Application of the module (in other courses of study)</p>
9	<p>Weighting of the mark for the final grade</p> <p>5.8333%</p>
10	<p>Lecturer in charge of the module, and full-time lecturers</p> <p>Prof. Dr.-Ing. Rudolf Lückmann</p> <p>Prof. Dr.-Ing. Matthias Tauber</p> <p>Prof. Angelika-Christina Brzóška</p> <p>Dipl.-Ing. Ralf Lindemann (Stiftung Dome und Schlösser LSA - <i>Cathedrals and Castles Foundation of the State Saxony-Anhalt</i>)</p> <p>Dipl.-Ing. Annemarie Reimann</p>
11	<p>Other Information</p> <p>Technical Fundamentals of Garden Heritage Preservation</p> <p>The introductory course shall explain the fundamentals of historical building to the students. The specific features of the building materials and building physics in the context of modern refurbishment material shall be highlighted. At the same time, the students from different countries of origin and with different professional experience, are made ready for work. The Landesamt für Denkmalpflege Sachsen-Anhalt (<i>Saxony-Anhalt State Agency for Monumental</i></p>

Heritage) supports this course segment.

Building Methods and Structures of Inorganic Materials

The course shall give the students an overview of the most important mineral building methods all around the world. The "Stiftung Dome und Schlösser LSA" (*Cathedrals and Castles Foundation of the State Saxony-Anhalt*) supports this course segment.

P2 Project II					
	Workload	Credits	Course semester	When offered	Duration
	150 h	5 CP	2 nd semester	every semester	1 semester
1	Lessons a) Lecture Introduction in the project b) Exercise Additional information, comparisons, analyses, etc.		Contact time 60 h	Self-study 90 h	Intended group size 15
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The task of this module is the independent handling of a complex of problems, preferably referring to the contents taught in H2/1, H2/2, T2/1 and T2/2. - The assessment of the proposed solution in comparison with other cultures is discussed with the students. - The defence of the proposed solution is assessed in the context with other cultures.. - The proper application of the project terminology is trained. - An important component is the group communication with the international attendants in the course. 				
3	Contents <ul style="list-style-type: none"> - <i>Introduction of the project</i> - Introduction of the partner institutions/interest groups - Detailing of the task - Teaching of professional data on the project - Elaboration of a concept with proposals for solution - Defence of the solution - Discussion in the context with solutions on other continents 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Depending on the project, a drawn, written and spoken solution, presentation in the colloquium				
7	Prerequisites for crediting Successful colloquium				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Angelika-Christina Brzóška Prof. Dr.-Ing. Andrea Haase Prof. Alfred Jacoby				

	<p>Prof. Johannes Kister Prof. Dr.-Ing. Rudolf Lückmann Prof. Manfred Sundermann and others</p>
<p>11</p>	<p>Other Information</p> <p>The course shall make reference to current issues in the worldwide discussion about monumental heritage. If possible, the subject shall be related to the other learning objectives of the semester. As it should, however, be open for all students of the English-spoken Master courses, freedom of subjects is intended. The subjects and the number of lecturers are agreed with the Board of Examiners before the beginning of the semester. This course segment can be supported by the World Cultural Heritage Sites, but also other institutions (e.g. foreign university, city administration, etc.)</p>

Master Monumental Heritage Description of Modules 3rd Semester

H3 Modernity					
	Workload	Credits	Course semester	When offered	Duration
	300 h	10 CP	3 rd semester	every second semester	1 semester
1	<p>Lessons</p> <p>Designing of the City</p> <p>a) Lecture Fundamentals of urban construction in monumental heritage</p> <p>b) Experimental lessons Urban construction inventory</p> <p>c) Exercise Ensemble protection in the context between the cultures</p> <p>Theory of Architecture III</p> <p>a) Lecture History of monumental heritage in Modernity</p> <p>b) Experimental lessons Modernity around us</p> <p>c) Exercise Scientific handling of a subject, draft about the context of preservation of Modernity</p>		<p>Contact time</p> <p>60 h</p> <p>60 h</p>	<p>Self-study</p> <p>90 h</p> <p>90 h</p>	<p>Intended group size</p> <p>15</p>
2	<p>Learning outcomes / Competences</p> <p>Designing of the City</p> <ul style="list-style-type: none"> - The student acquires knowledge in the relationship of the socio-cultural relevance of historical city quarters and their importance for the civil society. - He is taught knowledge about transformations and conversions of historical city quarters and buildings. - The students acquire knowledge in taking inventories and analyses of existing buildings and structures, exceeding a pure structural-spatial inventory and incorporate such issues like the charm, the colour, the sound, the smell of the city. - The students acquire knowledge about: <ul style="list-style-type: none"> a) Interventions and designing of structural-spatial fabrics/relations are components of the module, with particular consideration of such issues like: façade structuring, internal finishing, road spaces and external spaces. b) Maintenance and modernization strategies and their planning, implementation and the participation of target groups c) Necessity and participation of different professional disciplines in the development and implementation of historical city quarters d) Development and functioning of historical cities all over the world e) Analyses of problems and elaboration of proposals for solution f) Comparative studies on changes in the cityscape g) Knowledge of the terminology, ability to use it h) Qualification of the knowledge in the different humanities to enable the students to successfully participate in discussions 				

	<p>Theory of Architecture III</p> <ul style="list-style-type: none"> - The students acquire knowledge about the emergence of Modernity in construction. - They train their ability to criticize the arbitrariness and exchangeability of styles. - They deal with the ability to discuss the political and social adaptation of architecture. - The students learn to express themselves in the context of the textures of modern architecture. - Independence and certainty in the evaluation of social developments in the architectural form language are trained.
3	<p>Contents</p> <p>Designing of the City</p> <ul style="list-style-type: none"> - Presentation of ideal-typical cityscapes through space and time to Modernity and Post-Modernity (New Urbanism) - Analysis and comparisons of historical city quarters, e.g.: density, economy, production, knowledge, documentation, multi-cultural situation, etc. - Presentation of structural-spatial and socio-cultural transformation processes of European, Islamic, Indian, Chinese, North American and colonial cityscapes - Presentation of superimpositions of historical layers in the city, initiated by economical, technological and infrastructural circumstances and by the developments of the population, ideologies, by musealization and eventization, etc. - Determination of methods of inventory, mapping, analysis, preservation - Teaching of current strategies for the refurbishment and maintenance of the historically relevant city quarters and ensembles, private, national, supra-national initiatives - Modernization and further development of historical city quarters and ensembles - Presentation techniques of urban construction results in the form of text, image, plan, video, graph and animation - Further development of historical cities in the 21st century <p>Theory of Architecture III</p> <ul style="list-style-type: none"> - History of Modernity: - Historism - Eclecticism - Jugendstil, Art Deco - Neo Classicism - Constructivism - Industrial architecture - Modernity - all over the world - From Stalinist Historism to prefab block construction - Victory of Modernity after World War II - Tendencies of textures and colours in Modernity - Criticism and crises of Modernity, loss of identity? - Post Modernity, Deconstructivism - Problems and chances in the listing of buildings of Modernity - The role of UNESCO, Docomomo and other organizations
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Designing of the City</p> <p>Will be requested in the accompanying exercise. The effect of temporal social and local influences on urban construction at one or more freely chosen examples from all over the world</p> <p>Theory of Architecture III</p> <p>Dealing with a subject/building of Modernity, scientific, designing (possibly drawings and scientific report)</p>

7	<p>Prerequisites for crediting</p> <p>Accepted term paper</p>
8	<p>Application of the module (in other courses of study)</p>
9	<p>Weighting of the mark for the final grade</p> <p>5,8333%</p>
10	<p>Lecturer in charge of the module, and full-time lecturers</p> <p>Prof. Dr.-Ing. Omar Akbar</p> <p>Prof. Dr.-Ing. Andrea Haase</p> <p>Prof. Johannes Kalvelage</p> <p>Prof. Angelika-Christina Brzóška</p> <p>Frau Monika Markgraf (Bauhaus Foundation)</p> <p>Prof. Philipp Oswald (Bauhaus Foundation)</p>
11	<p>Other Information</p> <p>Designing of the Cities</p> <p>The introductory course in urban monumental heritage shall teach the students fundamental knowledge for the analysis of problems and chances of the historical quarters, and enable them to formulate statements on their preservation in the future. This course segment is supported by the Aga Khan Foundation (?) and several municipalities.</p> <p>Theory of Architecture III</p> <p>The course shall demonstrate to the students the background of the victory of the buildings of Modernity. They shall be further enabled to show a critical approach to buildings. The Bauhaus Dessau Foundation supports this course segment.</p>

T3 Technology III					
	Workload	Credits	Course semester	When offered	Duration
	300 h	10 CP	3 rd semester	Every second semester	1 semester
1	Lessons Technical Fundamentals of Modernity a) Lecture Technical fundamentals of urban construction b) Exercise Proposals for the refurbishment of a technical structure Building Methods and Structures in the City a) Lecture Technology of the building materials of Modernity b) Exercise Proposals for the refurbishment of a house of Modernity	Contact time 60 h 60 h	Self-study 90 h 90 h	Intended group size 15	
2	Learning outcomes / Competences Technical Fundamentals of Modernity <ul style="list-style-type: none"> - The students acquire knowledge in utilities, safety and traffic systems that have been and are needed for the maintenance of the city. - As a basic competence, they learn to classify specific urban structures according to their importance. - The students also acquire knowledge about technical facilities and their worthiness of preservation. - The module includes the recognition of the problems of urbanity. Building Methods and Structures in the City <ul style="list-style-type: none"> - The students acquire technical knowledge about the building materials of Modernity: steel, concrete, glass, plastics and their production processes - Fundamental knowledge is taught by means of the construction of load bearing structures made of reinforced concrete in monumental heritage/refurbishment. - The attendants study the issues of colours and paints in and at structures of Modernity. . - This also includes paint coats for the protection and for the improvement of the expression of structures or their components. - The students are enabled to use the terminology in the technology of modern construction. 				
3	Contents Technical Fundamental of Modernity <ul style="list-style-type: none"> - Transport systems in the city, roads, rail networks, trams, railway stations - Water supply and drainage in the city (mills, water towers, etc.), - Harbour systems, airports - Urban furniture (road lanterns, benches, etc.) - Gas, electricity, district heating in the city - Hygiene, hospitals, ventilation corridors, smog, slaughterhouses 				

	<ul style="list-style-type: none"> - Cemeteries, crematoriums - Defence systems in the city; from palisade fence to air raid shelters <p>Building Methods and Structures in the City</p> <ul style="list-style-type: none"> - Modern building materials (steel, concrete, glass, plastics), properties and parameters - Weaknesses of structures of Modernity - Ageing, etc. - Statics of structures made of steel or reinforced concrete - Hyper shell structures, sail structures all over the world - Paint coats on modern building materials, materials - Exemplary refurbishment of structures of Modernity - Specific structural features of structures of Modernity in other cultures
4	<p>Teaching methods</p> <p>Scientific lecture / seminar-like exercise</p>
5	<p>Prerequisites for attendance</p> <p>None</p>
6	<p>Forms of examination</p> <p>Technical Fundamentals of Modernity</p> <p>Term paper</p> <p>Building Methods and Structures in the City</p> <p>Planning of an example of the refurbishment of a house of Modernity, with explanatory report</p>
7	<p>Prerequisites for crediting</p> <p>Accepted term papers</p>
8	<p>Application of the module (in other courses of study)</p>
9	<p>Weighting of the mark for the final grade</p> <p>5.8333 %</p>
10	<p>Lecturer in charge of the module, and full-time lecturers</p> <p>Prof. Dr.-Ing. Rudolf Lückmann</p> <p>Prof. Dr.-Ing. Matthias Tauber</p> <p>Dr. Philipp (Landesamt für Denkmalpflege Sachsen-Anhalt - <i>Saxony-Anhalt State Agency for Monumental Heritage</i>)</p> <p>Prof. Dr.-Ing. Reinhard Reimann</p> <p>Prof. Angelika-Christina Brzóska</p>
11	<p>Other Information</p> <p>Technical Fundamentals of Modernity</p> <p>In this course, the students shall acquire the technical fundamentals required to allow for the present-day compactness of urban spaces. The representative in charge of industrial monuments of the Landesamt für Denkmalpflege Sachsen-Anhalt (<i>Saxony-Anhalt State Agency for Monumental Heritage</i>) acts as supporting partner for this course segment.</p> <p>Building Methods and Structures in the City</p> <p>The course shall introduce the students in the new group in the monumental heritage of structures of Modernity in their varying constructions and refurbishment variants.</p>

P3 Project III					
	Workload	Credits	Course semester	When offered	Duration
	150 h	5 CP	3 rd semester	every second semester	1 semester
1	Lessons a) Lecture: Introduction in the subject b) Exercise Additional information, comparisons, analyses, etc.		Contact time 60 h	Self-study 90 h	Intended group size 15
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The task of this module is the strengthening of the ability to independently handle a complex of problems, preferably referring to the contents taught in H3/1, H3/2, T3/1 and T3/2. - The student learns to analyse the assessment of the proposed solution in comparison with other cultures. - The ability of defending the proposed solution in reflection to related disciplines is strengthened. - An important component of the module is the ability to use the terminology for the project. 				
3	Contents <ul style="list-style-type: none"> - <i>Introduction of the project</i> - Introduction of the partner institutions/interest groups - Detailing of the task - Teaching of professional data on the project - Elaboration of a concept with proposals for solution - Defence of the solution - Discussion in the context with solutions on other continents 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Depending on the project, a drawn, written and spoken solution, presentation in the colloquium				
7	Prerequisites for crediting Successful colloquium				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Angelika-Christina Brzóška Prof. Dr.-Ing. Andrea Haase Prof. Alfred Jacoby Prof. Johannes Kister				

	<p>Prof. Dr.-Ing. Rudolf Lückmann Prof. Manfred Sundermann and others</p>
<p>11</p>	<p>Other Information</p> <p>The course shall make reference to current issues in the worldwide discussion about monumental heritage. If possible, the subject shall be related to the other learning objectives of the semester. As it should, however, be open for all students of the English-spoken Master courses, freedom of subjects is intended. The subjects and the number of lecturers are agreed with the Board of Examiners before the beginning of the semester. This course segment can be supported by the World Cultural Heritage Sites, but also other institutions (e.g. foreign university, city administration, etc.)</p>

Master Monumental Heritage

Description of Electoral Compulsory Modules 1st - 3rd semesters

Electoral Compulsory Module German I					
	Workload 150 h	Credits 5 CP	Course semester 1 st semester	When offered every second semester	Duration 1 semester
1	Lessons a) Lecture: Fundamentals of the German language b) Exercise: Writing and speaking		Contact time 60 h	Self-study 90 h	Intended group size 30 students 15 students
2	Learning outcomes / Competences - The students acquire basic skills in the German language. They are enabled to hold simple everyday talks.				
3	Contents German language exercises				
4	Teaching methods Lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination PK				
7	Prerequisites for crediting Successful colloquium				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Ms. Fechner (Language Centre of the Anhalt University of Applied Sciences) Ms. Konzalla (Language Centre of the Anhalt University of Applied Sciences)				
11	Other Information In the introductory course, the students shall acquire basic knowledge of the German language. It is a compulsory module.				

Electoral Compulsory Module German II				
Workload	Credits	Course semester	When offered	Duration
150 h	5 CP	2 nd semester	every second semester	1 semester
1	Lessons a) Lecture: Fundamentals of the German language b) Exercise Writing and Speaking	Contact time 60 h	Self-study 90 h	Intended group size 30 students 15 students
2	Learning outcomes / Competences - The basic knowledge of the German language is deepened. The students are enabled to translate simple technical texts and to communicate in the German language.			
3	Contents - Exercises in the German language			
4	Teaching methods Lecture / seminar-like exercise			
5	Prerequisites for attendance None			
6	Forms of examination PK			
7	Prerequisites for crediting Successful colloquium			
8	Application of the module (in other courses of study)			
9	Weighting of the mark for the final grade 5.8333%			
10	Lecturer in charge of the module, and full-time lecturers Ms. Antje Fechner (Language Centre of the Anhalt University of Applied Sciences) Ms. Steffi Konzalla (Language Centre of the Anhalt University of Applied Sciences)			
11	Other Information In the introductory course, the students shall acquire further basic knowledge of the German language. It is a compulsory module.			

Electoral Compulsory Module German III				
Workload	Credits	Course semester	When offered	Duration
150 h	5 CP	2 nd semester	every second semester	1 semester
1	Lessons a) Lecture: Fundamentals of the German language Spruce b) Exercise Writing and Speaking	Contact time 60 h	Self-study 90 h	Intended group size 30 students 15 students
2	Learning outcomes / Competences - The basic knowledge of the German language is deepened. The students are enabled to translate simple technical texts and to communicate in the German language.			
3	Contents - Exercises in the German language			
4	Teaching methods Lecture / seminar-like exercise			
5	Prerequisites for attendance None			
6	Forms of examination PK			
7	Prerequisites for crediting Successful colloquium			
8	Application of the module (in other courses of study)			
9	Weighting of the mark for the final grade 5.8333			
10	Lecturer in charge of the module, and full-time lecturers Ms. Antje Fechner (Language Centre of the Anhalt University of Applied Sciences) Ms. Steffi Konzalla (Language Centre of the Anhalt University of Applied Sciences)			
11	Other Information In the introductory course, the students shall acquire further basic knowledge of the German language. It is a compulsory module.			

Electoral Compulsory Module Technical English I					
	Workload 150 h	Credits 5 CP	Course semester 1st semester	When offered every second semester	Duration 1 semester
1	Lessons a) Lecture Improvement of proficiency b) Exercise Intensive training in speaking	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences - The focus is on the deepening of the knowledge in the professional terminology of historical construction and refurbishment. The student is enabled to reflect concrete technical texts and to express own ideas.				
3	Contents - Exercises in the English language				
4	Teaching methods Lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Test paper about the learned contents				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Language Centre of the Anhalt University of Applied Sciences				
11	Other Information In the advanced course, the student shall acquire the terminology of monumental heritage. For students having little knowledge of English, this course is obligatory.				

Electoral Compulsory Module Technical English II					
	Workload 150 h	Credits 5 CP	Course semester 2 nd semester	When offered every second semester	Duration 1 semester
1	Lessons a) Lecture Improvement of proficiency b) Exercise Intensive training in speaking	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences - The student deepens his/her knowledge of the professional terminology of historical construction and refurbishment.				
3	Contents - Exercises in the English language				
4	Teaching methods Lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Test paper about the learned contents				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Language Centre of the Anhalt University of Applied Sciences				
11	Other Information In the advanced course, the student shall acquire the terminology of monumental heritage. For students having little knowledge of English, this course is obligatory.				

Electoral Compulsory Module Archaeology					
	Workload	Credits	Course semester	When offered	Duration
	150 h	5 cp	1 st , 2 nd , 3 rd semester	every semester, winter semester, ...	1 semester
1	Lessons a) Lecture: Fundamentals of Archaeology b) Exercise: Participation in a study excavation		Contact time 60 h	Self-study 90 h	Intended group size 15
2	Learning outcomes / Competences - The students acquire basic knowledge of archaeology. They are enabled to participate in excavations and to make evaluations.				
3	Contents - Theoretical instruction, participation in the study excavation				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Test paper about the learned contents				
7	Prerequisites for crediting Successful participation in the study excavation				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Halle/Wittenberg University, staff member of the Archaeology Department				
11	Other Information In the introductory course, the students shall acquire basic knowledge in archaeology.				

Electoral Compulsory Module Industrial Monument Heritage					
	Workload 150 h	Credits 5 CP	Course semester 1 st , 2 nd , 3 rd semester	When offered every semester (as agreed with the Board)	Duration 1 semester
1	Lessons a) Lecture: Fundamentals in Industrial Monumental Heritage b) Exercise: Scientific paper about an industrial monument	Contact time 60 h	Self-study 90 h	Intended group size 15 students	
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students acquire basic knowledge of industrial monumental heritage. - They develop an understanding of problems relating to the preservation of these specific monuments. 				
3	Contents <ul style="list-style-type: none"> - History of the industrial revolution - Specific features in the federal state of Saxony-Anhalt - Problems of industrial architecture 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Lecture on an example of an industrial architectural monument and its preservation				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr. Matthias Tauber, Dr. Philipp (Landesamt für Denkmalpflege Sachsen-Anhalt - <i>Saxony-Anhalt State Agency for Monumental Heritage</i> , conservator for industrial architecture)				
11	Other Information In the course, the students shall acquire fundamental knowledge of industrial architecture and its specific preservation problems.				

Electoral Compulsory Module History of Architecture					
	Workload 150 h	Credits 5 CP	Course semester 1 st , 2 nd , 3 rd semester	When offered every semester	Duration 1 semester
1	Lessons a) Lecture: Fundamentals of the history of architecture b) Exercise: Dating of structures	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences - The students acquire knowledge about the fundamentals of the history of architecture and the classification of styles of European cultural monuments..				
3	Contents - Art history of architecture from Romanesque to Modernity - Structures in the federal state of Saxony-Anhalt - Problems of the dating of cultural assets				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Oral examination, dating of monuments				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Michael Stuhr Dr. Ulrike Wendland (Landeskonservatorin LSA - <i>Saxony-Anhalt State Conservator</i>)				
11	Other Information In the course, the students shall acquire fundamental knowledge of the cultural-historical assessment of European architecture, as many students come from other continents.				

Electoral Compulsory Module CAD Presentation					
	Workload 150 h	Credits 5 CP	Course semester 1., 2.+ 3. Semester	When offered every semester	Duration 1 semester
1	Lessons a) Lecture: Fundamentals of CAD presentation b) Exercise: Elaboration of an example	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students acquire knowledge of the opportunities of CAD drawing and presentation. - They develop an understanding of the problems in three-dimensional reconstruction. They learn to assess the chances and risks of virtual animation. 				
3	Contents <ul style="list-style-type: none"> - Technology of CAD presentation - Problems of virtual reconstruction 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Visualization of a building or building component by means of a CAD program				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Claus Dießenbacher Prof. Stephan Pinkau Prof. Dr.-Ing. Rudolf Lückmann				
11	Other Information In the course, the students shall acquire basic knowledge of virtual reconstructions. Basic knowledge of the computer programs is a prerequisite.				

Electoral Compulsory Module Tourism					
	Workload 150 h	Credits 5 CP	Course semester 1 st , 2 nd , 3 rd semester	When offered every semester	Duration 1 semester
1	Lessons a) Lecture: Fundamentals of tourism at historical sights b) Exercise: Elaboration of a tourism concept	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students acquire fundamental knowledge of tourism at historical sights all over the world. - Tourism provides chances for the development of cities. However, it also provides risks. The module focuses on the understanding of balancing in concept developments and to develop strategies. 				
3	Contents <ul style="list-style-type: none"> - <i>History of tourism to historical sights</i> - Tourism as a business factor - Tourism and the protection of nature, monumental heritage - friend and enemy - Specific issues in the federal state of Saxony-Anhalt 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Lecture on an example of touristic marketing of a monument Touristic concept for a monument sight				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Jens Nävy Harz University, staff members of the Tourism Department Dr. Thomas Weiss (Dessau-Wörlitz Cultural Foundation)				

11	Other Information In the course, the students shall acquire fundamental knowledge of touristic marketing and the limits at historical sights.
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Electoral Compulsory Module Restoration					
	Workload 150 h	Credits 5 CP	Course semester 1 st , 2 nd , 3 rd semester	When offered every semester	Duration 1 semester
1	Lessons a) Lecture Techniques of restoration (wood, metal, glass) b) Exercise Professional processing of a component taken from a monument	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students acquire basic knowledge in the special techniques in restoration, preferably in wood, stucco, glass or iron. - They are enabled to develop a craftsmanship solution and an assessment of working hours and working performances.. - The evaluation and discussing of different solution concepts are trained. - 				
3	Contents <ul style="list-style-type: none"> - <i>Instruction in the craft methods, tools</i> - <i>Restoration of a removed component from a listed building</i> 				
4	Teaching methods Seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Acceptance of the part of the monument dealt with				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Rudolf Lückmann Mr. Torsten Klaus (Metal workshop of the Anhalt University of Applied Sciences) Mr. Guido Lau (Wood workshop of the Anhalt University of Applied Sciences)				

11	Other Information <p>In the course, the students shall acquire fundamental knowledge of restoration and provide solutions with their advantages and disadvantages. The work is usually done in the workshops of the university. It may also be carried out in a restoration workshop or in a stonemason's workshop under the supervision of the lecturer.</p>
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Electoral Compulsory Module Urban Construction - Ensemble Protection					
	Workload 150 h	Credits 5 CP	Course semester 1 st , 2 nd , 3 rd semester	When offered every semester (as agreed with the Board)	Duration 1 semester
1	Lessons a) Lecture: Fundamentals of tourism at historical sights b) Exercise: Elaboration of a tourism concept		Contact time 60 h	Self-study 90 h	Intended group size 15
2	Learning outcomes / Competences <ul style="list-style-type: none"> - The students acquire knowledge of the specific requirements in urban monumental heritage, particularly in the comparison between cities in Europe and other cultures. - They elaborate solution concepts and evaluate them. 				
3	Contents <ul style="list-style-type: none"> - Infrastructural backgrounds for problems in regions/cities - Evaluation of IBA investigations and effects - Comparative examples - Excursion 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Lecture about an example of the improvement of a city quarters				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Omar Akbar				
11	Other Information In the course, the students shall acquire fundamental knowledge of the urban construction evaluation of historical quarters, and solution concepts shall be introduced to them.				

Electoral Compulsory Module Current Problems and Theories in Monumental Heritage					
	Workload 150 h	Credits 5 CP	Course semester 1.,2+3. Semester	When offered every semester	Duration 1 semester
1	Lessons a) Lecture: Background of the project example b) Exercise: Understanding of the circumstances, examples for solutions	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences <ul style="list-style-type: none"> - Varying from project to project. Usually meant as support, deepening and strengthening of the knowledge acquired in the lessons on the history of art or technology - Depending on the project, knowledge acquired in previous courses required 				
3	Contents <ul style="list-style-type: none"> - Considerations of the objectives in monumental heritage and general rules in the context of the real situations at the sites and the approaches - Filtering of relevant aspects - Development of new approaches and objectives in monumental heritage in international comparison 				
4	Teaching methods Scientific lecture / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Depending on the project				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Omar Akbar Prof. Angelika-Christina Brzóška Prof. Dr.-Ing. Claus Dießenbacher				

	<p>Prof. Dr.-Ing. Andrea Haase Prof. Alfred Jacoby Prof. Johannes Kister Prof. Dr.-Ing. Rudolf Lückmann Dipl.-Ing. Annemarie Reimann and others</p>
<p>11</p>	<p>Other Information The course shall enable the students to respond to current problems in monumental heritage. Before the course is initiated it will be discussed in the Board of Examiners.</p>

Practical Project					
	Workload 150 h	Credits 5 CP	Course semester 1.,2.+3. Semester	When offered every semester	Duration 1 semester
1	Lessons a) Exercise/attendance Professional attendance of the internship b) Exercise: Work in monumental heritage	Contact time 60 h	Self-study 90 h	Intended group size 15	
2	Learning outcomes / Competences - The students acquire knowledge in practical monumental heritage together with an actor.				
3	Contents - Participation in projects related to monuments				
4	Teaching methods Practical instruction, on-site attendance				
5	Prerequisites for attendance None				
6	Forms of examination Internship report				
7	Prerequisites for crediting Successful completion in the exercise				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 5.8333%				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Rudolf Lückmann				
11	Other Information In the course, the students shall be enabled to deal with subjects of practical relevance with partners from monumental heritage.				

Master Monumental Heritage Description of Modules 4th Semester

Master Thesis and Master Colloquium					
	Workload 900 h	Credits 30 CP	Course semester 4 th semester	When offered every semester	Duration 1 semester
1	Lessons a) Exercise: Preparations for examination b) Self-study: Elaboration of the thesis	Contact time	Self-study	Intended group size	
2	Learning outcomes / Competences The students shall demonstrate that they are able to independently deal with and present a topic of monumental heritage by applying scientific methods in a comprehensive way.				
3	Contents - Monument-centred topics and problems with focus on the monumental heritage of buildings and cities all over the world				
4	Teaching methods Preparation of examination / seminar-like exercise				
5	Prerequisites for attendance None				
6	Forms of examination Presentation and oral examination				
7	Prerequisites for crediting Successful completion in the presentation				
8	Application of the module (in other courses of study)				
9	Weighting of the mark for the final grade 30.0%, of which 25% written paper and 5.0% colloquium				
10	Lecturer in charge of the module, and full-time lecturers Prof. Dr.-Ing. Omar Akbar Prof. Angelika-Christina Brzóška Prof. Dr.-Ing. Claus Dießenbacher Prof. Dr.-Ing. Andrea Haase Prof. Alfred Jacoby Prof. Johannes Kister Prof. Dr.-Ing. Rudolf Lückmann Dipl.-Ing. Annemarie Reimann				

	and others
11	Other Information If possible, the Master thesis shall be attended by the examiner from the Anhalt University of Applied Sciences together with a foreign colleague. The latter shall be appointed in advance in agreement with the Board of Examiners. The thesis may also prepared outside Germany. In such cases, it is necessary that the students stay in contact with the first examiner via internet so that their permanent attendance is ensured.

List of reference literature for the Master course in Monumental Heritage

(T1)

- **Conservation of Wood Artifacts: A Handbook (Natural Science in Archaeology) [paperback]**
A. Unger (author), A.P. Schniewind (author), W. Unger (author)
- **Japan Culture of Wood: Buildings, Objects, Techniques [hard cover]**
Christoph P. Henrichsen (author)
- **Historical Building Construction: Design, Materials, & Technology [hard cover]**
Donald Friedman (author)
- **Protection of Historical Buildings, 2-Volume Set: Prohitech 09 [hard cover]**
Federico M. Mazzolani (editor)
- **Historical Building Construction: Design, Materials, and Technology [hard cover]**
Donald Friedman (author)
- **The Structural Basis of Architecture [hard cover]**
Bjorn N. Sandaker (author), Arne P. Eggen (author), Mark R. Cruvellier (author)
- **Structural Studies, Repairs and Maintenance of Heritage Architecture X: 10th (Wit Transactions on the Built Environment) [hard cover]**
C. A. Brebbia (author)
- **Timber Frame Construction: All about Post and Beam Building [paperback]**
Jack Sobon (author), Roger Schroeder (author)
- **Timber Construction for Architects and Builders (Mcgraw-Hill Construction Series) [hard cover]**
Eliot E. Goldstein (author)
- **Timber Construction Manual (Wiley Survival Guides in Engineering and Science) [hard cover]**
Emmanuel Desurvire (author), American Institute of Timber Constructio (author), Lastamerican Institute of Timber Constru (author)
- **Elementary Principles of Carpentry: A Treatise on the Pressure and Equilibrium of Timber Framing, the Resistance of Timber, and the Construction of Fl [paperback]**
Thomas Tredgold (author), Peter Barlow (author)
- **Timber Construction for Trade, Industry, Administration. Basics and Projects: Basics and Projects [hard cover]**
Wolfgang Ruske (author)
- **A Timber Framer's Workshop: Joinery, Design & Construction of Traditional Timber Frames S [paperback]**
Steve K. Chappell (author)
- **Engineering Construction in Steel and Timber [paperback]**
William Henry Warren (author)
- **Constructing Architecture: Materials, Processes, Structures; a Handbook [hard cover]**
Andrea Deplazes (editor)

(H2)

- **Material Stone. Constructions and Technologies for Contemporary Architecture [hard cover]**
Christoph Mäckler (author)
 - **Structural Analysis of Historic Construction: Preserving Safety and Significance, Two Volume Set: Proceedings of the VI International Conference on ... SAHC08, 2-4 July 2008, Bath, United Kingdom [hard cover]**
Dina D'Ayala (editor), Enrico Fodde (editor)
 - **Natural Stone Resources for Historical Monuments (Geological Society Special Publication) [hard cover]**
R. Prikryl (editor), A. Torok (editor)
 - **Water Transport in Brick, Stone and Concrete [hard cover]**
Christopher Hall (author), W. D. Hoff (author)
 - **Stone Mad [hard cover]**
Seamus Murphy (author)
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Martin E. Weaver (author)
- (H for all semesters)
- **World Heritage Sites: A Complete Guide to 911 UNESCO World Heritage Sites [paperback]**
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Michael A. Di Giovine (author)

- **Monumental Ambivalence: The Politics of Heritage (Joe R. and Teresa Lozana Long Series in Latin American and Latino Art and Culture) [paperback]**
Lisa Breglia (author)
- (T2)
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Argyro Loukaki (author)
- **Managing Cultural Landscapes (Key Issues in Cultural Heritage) [paperback]**
Ken Taylor (editor), Jane Lennon (editor)
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- **Scotland's Lost Gardens [hard cover]**
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- **The Royal Botanic Gardens, Kew: Historical and Descriptive [paperback]**
William Jackson Bean (author)
- **The Secret Garden 100th Anniversary [Special Edition] [paperback]**
Frances Hodgson Burnett (author), Tasha Tudor (illustrator)

Theory of Architecture (H1, H2, H3)

- Alltagsarchitektur : Gestalt und Ungestalt ; gesehen mit den Augen von Studenten und Architekten ; ein kritisches Bilderbuch und Dokument unserer Zeit. - Wiesbaden, 1987
Comprehensive, illustrated history of the theory of architecture from Renaissance to the present. In more than 850 figures, the most important theoreticians of architecture and master builders (from Alberti to Koolhaas) are presented chronologically, and grouped according to their countries.
- Magnago Lampugnani, Vittorio (editors): Architekturtheorie 20. Jahrhundert : Positionen, Programme, Manifeste. - Ostfildern-Ruit, 2004
In chronological sequence, this book compiles more than 130 basic, sometimes rather unknown programmatic texts on the architecture of the 20th century: essays, manifestos, pamphlets, written by architects from Europe, USA and Japan, who have formulated original and radical positions at a very early stage.
- Ballantyne, Andrew: Architecture theory : a reader in philosophy and culture. - London [a.o.], 2005
Comprehensive and basic overview of and introduction in the contemporary criticism of architecture in connection with the European philosophy..
- Germann, Georg: Einführung in die Geschichte der Architekturtheorie. - 2., verb. Aufl. - Darmstadt, 1987
- Klotz, Heinrich: Architektur : Texte zur Geschichte, Theorie und Kritik des Bauens. - Ostfildern-Ruit, 1996
- Krufft, Hanno-Walter: Geschichte der Architekturtheorie : von der Antike bis zur Gegenwart. - Studienausg., 5. Aufl. - Munich, 2004
Standard work on the development of the theory of architecture.
- Moravánszky, Ákos: Architekturtheorie im 20. Jahrhundert : eine kritische Anthologie. - Vienna [a.o.], 2003
One hundred original texts of architects, artists, art historians and philosophers are handily provided for the reader in a commented form for his own investigations - arranged in five subjects. All five subjects are introduced by essays of the editor; the 100 texts are commented for better understanding.

- Naredi-Rainer, Paul: Architektur und Harmonie : Zahl, Maß und Proportion in der abendländischen Baukunst. - 7., überarb. Aufl. Cologne, 2001
Figure, dimension and proportions form three basic elements whose mastering in architecture leads to harmony. The whole volume is laid out in such a way that different and varying ideas of harmony are explained and interconnected, starting from the basic idea of harmony. The author interprets architecture as a historical document, but also as a phenomenon reaching to the present time, addressing issues of the existence and the meaning of the human being.
- Theories and manifestoes of contemporary architecture. - Chichester [u.a.], 1997
The book tries to demonstrate that modern architecture follows three main directions: the critical and ecological Post-Modernity, a late High-Tech Modernity, and a new deconstructivist Modernity.
- Vitruvius Pollio, Marcus: De architectura libri decem. - 5. Aufl. - Darmstadt, 1996

History of Architecture and Urban Construction (H and T3)

- Hartmann, Kristiana (Hrsg.): 200 Jahre Architektur : Bilder und Dokumente zur neueren Architekturgeschichte. - Delft, 1987
Kristiana Hartmann headed the Institute of the History of Architecture and Urban Construction of the TU.
- Benevolo, Leonardo: Die Stadt in der europäischen Geschichte. - Munich, 1993
Until his retirement, Leonardo Benevolo worked as professor of history of architecture at the universities in Rome, Florence, Venice and Palermo.
- Benevolo, Leonardo: Die Geschichte der Stadt. - 8. Aufl., limitierte Jubiläumsausg. - Frankfurt am Main [a.o.], 2000
The inspiringly written and well illustrated book provides an overall presentation of the history of cities: from the early forms of settlement, the old China, the Greek and Roman Empires, Islamic cities, the cities of Europe in the Middle Ages and in the modern times to the situation in the modern cities of the 1970ies.
- Klotz, Heinrich: Von der Urhütte zum Wolkenkratzer : Geschichte der gebauten Umwelt. - Munich, 1991
- Koepf, Hans: Baukunst in fünf Jahrtausenden. - 11. Aufl. - Stuttgart [a.o.], 1997
- Müller, Werner (editor): dtv-Atlas zur Baukunst. - Munich
Bd 1: Allgemeiner Teil, Baugeschichte von Mesopotamien bis Byzanz. - 14., durchges. Aufl., 2005
Bd 2: Baugeschichte von der Romanik bis zur Gegenwart. - 13., durchges. Aufl., 2005
The two-volume "dtv-Atlas Baukunst" gives an overview of the development, problems and works of architecture from the early advanced cultures to the present time. The atlas serves as a textbook on styles and provides an overview of the history of art and also an introduction in the technology of architecture.
- Sennott, R. Stephen (Hrsg.): Encyclopedia of 20th-century architecture. - New York [a.o.], 2004
3 volumes. Buildings, architects, engineers, cities, technologies and designing of the 20th century with focus on the years 1990 to 2000 are introduced in more than 700 essays.
- Magnago Lampugnani, Vittorio (Hrsg.): Hatje-Lexikon der Architektur des 20. Jahrhunderts : [the comprehensive encyclopaedia of the present-day architecture...]. - Vollst. überarb. Neuauf. - Ostfildern-Ruit, 1998
This scientific encyclopedia does not only introduce the most important architects of our time, but also the different styles, movements and groupings. So the impression of the great individual works is rounded up to a wide overall presentation, providing for the recognition of the most important interrelations. The co-authors are internationally famous historians.
- Vynckt, Randall J. (Hrsg.): International dictionary of architects and architecture. - Detroit [a.o.], 1993
2 volumes. The first volume contains information about 523 architects with a chronology of their works and data on the locations, publications from and about architects and biographical data. The second volume presents 467 buildings and is a supplement to volume 1.
- Koepf, Hans: Bildwörterbuch der Architektur : with English, French and Italian glossaries. - 3. Aufl. - Stuttgart, 1999
In approx. 2,400 key words, the terms of architecture are explained in a concise and well understandable way. The architectural detail and its function are explained from the antiquity to the present. Lists further reference literature.
- Pevsner, Nikolaus (Hrsg.): Lexikon der Weltarchitektur. - 3., aktualisierte und erw. Aufl. - Munich, 1992
The "Dictionary of World Architecture" is considered the currently best overview over architecture from its beginnings to the

present in a literary form. The dictionary contains 2,929 articles and 3,480 illustrations (photos, ground plans, designs, etc.)

- Wasmuth, Günther (editor): Wasmuths Lexikon der Baukunst. - Berlin, 1929-1937
5 volumes. Standard dictionary of architecture, covering the most important architects, styles, epochs, countries, technical terms and topics of social and legal aspects of architecture and buildings up to the beginning of the 20th century. Partly with biographical data, well illustrated with photos, plans and diagrams.
- Die Geschichte der Kunst, Ernst H. Gombrich, Phaidon London 1996
- Geschichte der Kunst – Von der altchristlichen Zeit bis zur Gegenwart, Richard Hamann, Berlin 1932
- Sehen und Erkennen – Eine Anleitung zu vergleichender Kunstbetrachtung, Paul Brandt, Stuttgart 1952
- Vom Sinn der Bauformen – Der Weg der abendländischen Architektur, Heinrich Lützel, Freiburg 1953
- Baukunst – Die künstlerischen Werte im Werk des Architekten, A. E. Brinckmann, Tübingen 1956
- dtv – Atlas zur Baukunst (2 Bände) – Von Mesopotamien bis zur Gegenwart, Werner Müller/Gunther Vogel, Munich 2002
- Gesetz der Baukunst (2 Bände), Otto Schubert, Leipzig 1954

German language (C)

- Langenscheidt Großwörterbuch Deutsch als Fremdsprache - Buch (hardcover) + CD-ROM (Windows): monolingual Deutsch (Langenscheidt Großwörterbücher)
- PONS Grammatik auf einen Blick. Deutsch Renate Weber (author)
- Assimil. Deutsch für englisch Sprechende. German from the word go
- Berliner Platz 1 NEU - Lehr- und Arbeitsbuch 1 mit 2 Audio-CDs: Deutsch im Alltag (Berliner Platz NEU) [paperback]
Susan Kaufmann (editor), Margret Rodi (editor), Christiane Lemcke (author), Lutz Rohrmann (author), Theo Scherling (author)
- Berliner Platz, Band 2 - Lehr- und Arbeitsbuch 2 mit Audio-CD zum Arbeitsbuchteil: Deutsch im Alltag für Erwachsene [hard cover]
Christiane Lemcke (author), Lutz Rohrmann (author), Theo Scherling (author)
- Berliner Platz 3 NEU - Lehr- und Arbeitsbuch 3 mit 2 Audio-CDs und "Im Alltag EXTRA": Deutsch im Alltag (Berliner Platz NEU) [paperback]
Margret Rodi (editor), Christiane Lemcke (author), Lutz Rohrmann (author), Theo Scherling (author), Ralf Sonntag (author), Paul Rusch (author), Susan Kaufmann (author)
- <http://www.schubert-verlag.de/aufgaben/index.htm>
- <http://www.liebaug-dartmann.de/aktuell.html>

(H und T) Arts

- Jan De Heer
The Architectonic Colour: Polychromy in the Purist Architecture of Le Corbusier
- Dirk Meyhöfer
Konstruktion und Poesie, Glasarchitektur von Bothe Richter Teherani 1991-2002\Design Structure and Poetry, Glass Architecture by Bothe Richter Teherani 1991-2002
- Fiona McLachlan
Architectural Colour in the Professional Palette
- Henri Labrouste: Structure Brought to Light
Editors: Bergdoll, Barry; Belier, Corinne; Le Coeur, Marc
- Philip Jodidio
Oscar Niemeyer
- Philip Jodidio
Renzo Piano
- Carlo Scarpa - Das Handwerk der Architektur. The Craft of Architecture [English] [paperback]
Carlo Scarpa (author), Peter Noever (author)
- Scarpa by Sergio Los of Taschen Verlag
- Carlo Scarpa. Venini 1932-1947. Catalogo Generale. by Marino. Barovier by Skira (1 January 2012)
- Carlo Scarpa. Architektur von Thomas. Güller und Carlo Scarpa of Hatje Cantz Verlag (April 1998)
- Elemente des Bauens bei Carlo Scarpa by Franco Fonatti of Edition Tusch (1988)
- Die Architektur im 20. Jahrhundert by Udo Kultermann of Springer (5 June 2003)
- Camesasca, Ettore (editor)

Die Geschichte des Hauses, Leipzig 1983

- Scharf, Armin
Farbe in der Architektur, Stuttgart Munich, 2002
- Sikora, Bernd
Bauhaus und Art deco, Leipzig 2008
- Hertzig, Stefan
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- Pevsner, Nikolaus
Europäische Architektur, 1994, English edition
English version published by Penguin Books Ltd. Harmondsworth, Middlesex
- Rauda, Wolfgang
Lebendige städtebauliche Raumbildung, Berlin 1957
- Bacon, Edmund N.
Stadtplanung von Athen bis Brasilia, Zurich 1968