





DEAR READER

hank you for your interest in our international part-time Master programme "Green Architecture" at Wismar University. Our environment is subject to constant change, in which innovations and improvements define the daily life. Even at the workplace a standstill leads to a step backwards. Prepare yourself to face this challenge and start on the path towards your future now! As a part-time student you demonstrate a high level of willingness through your personal commitment and gain a convincing performance to compete in the job market. The higher public education degree Master of Arts from Wismar University guarantees the quality of your education and recognition within the economic and public sectors.

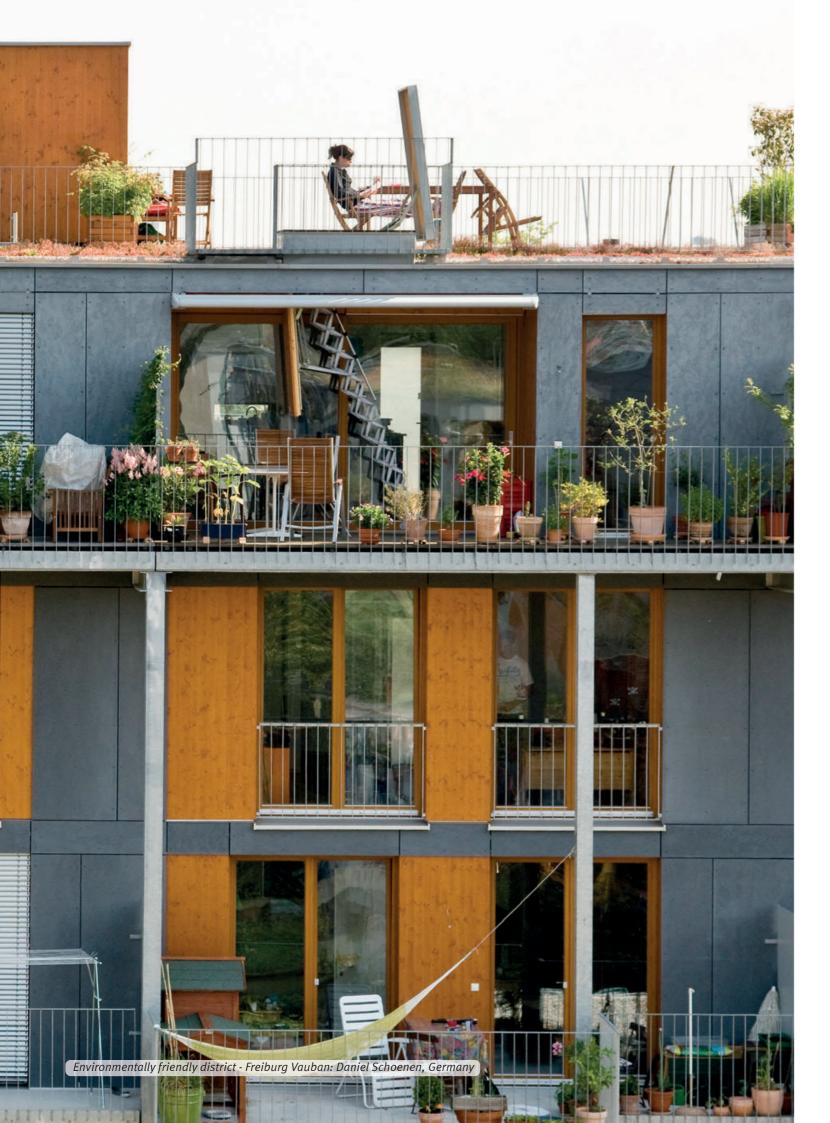
Wismar University offers you a blended learning education tailored to your individual needs at a competitive price - performance ratio. With this brochure we would like to explain in more detail the organization, structure and content of our part-time Master programme "Professional Studies Green Architecture" and assure you of our services. We look forward to welcome you as a part-time student at Wismar University.

Yours Sincerely,

Prof. Dr. jur. Bodo Wiegand-Hoffmeister

3. Aligand Northern

President of Wismar University – University of Applied Sciences



PROFESSIONAL STUDIES MASTER PROGRAMME GREEN ARCHITECTURE CONTENT





Your WINGS Team:

Individual Student Guidance and Support

WINGS-PROFESSIONAL STUDIES AT WISMAR UNIVERSITY

INGS – Wismar International Graduation Services – a subsidiary company of Wismar University – University of Applied Sciences (Germany) that offers distance learning programmes and certifies further education for working professionals. The study programmes are offered in the fields of economy, technology and design through which you can gain a higher public education degree such as a Bachelor, Diploma (FH) or Master. The distance learning centre at Wismar University was founded in 1952. WINGS was based on this and was set up in April 2004. The primary tasks of WINGS are to develop, organise and

market the distance learning and further educational programmes under the academic expertise of Wismar University.

Wismar University is an advanced and innovative education and research institution having over 100-years of academic excellence. It is an International University that is practice and

over 100-years of academic excellence. It is an International University that is practice and business oriented with over 8,000 students studying both on-campus and through distance learning.

Every distance learning student is enrolled as a regular student at Wismar University and is extensively and individually supported by WINGS based on his/her particular needs. This strengthens our concept of optimising the students' needs to work in their profession whilst studying and combines the following 4 components: self-study, seminars over selected weekends during the semester, telephone conferences and access to the online-campus database. Due to several contacts in Europe, the Baltic region, America, Latin America, Asia and in particular South-East-Asia, a variety of intercultural characteristics can be distinctively found in our research and teaching methods. Currently we have students from all over the world that are participating in our distance learning programmes. With more than 4,000 students, WINGS has become one of the leading distance learning providers in Germany.





2 MASTER WITH PERSPECTIVE ISSUES FOR YOUR DECISION

uture-oriented architecture and urban design can only be based on sustainable concepts. Therefore, this is an important feature of our Master programme in Green Architecture. We avoid one-sided considerations and expensive solutions for conventional concepts or restrictions on certain content, such as energy or natural building materials. Instead we focus on developing holistic concepts for each planning task. The programme's focus is to gain an understanding of the basics, identify possibilities, and use these concepts creatively to optimise their benefits.

You will study the basic principles of architecture in relation to sustainable construction and environmental issues including: natural ecosystems, technical and natural cycles, nature within an urban space or urban ecology. This knowledge will help you to develop concepts to plan and design our future living spaces. Using these concepts, you will then learn about future planning and construction from urban spaces to construction products as well as how to implement this knowledge in practical projects. During your study you will start to understand the benefits of ecological planning and learn how to develop your own ideas to create holistic building concepts.

The study programme is suitable for students who want to expand their current activities or specialize in sustainable planning and construction. It is also appropriate for professionals who already work in this field and want to develop their professional career further. As additional benefit you will meet students from all over the world with diverse cultural background. You will be able to gain friends in foreign countries and to develop valuable international ties to different markets of the world that can form the foundation of your future international professional network.



Mont-Cenis Academy – Herne, Germany

INTER-UNIVERSITY APPROACH SCIENTIFIC EXPERTISE

ased on our long-standing experience of the German language Master's

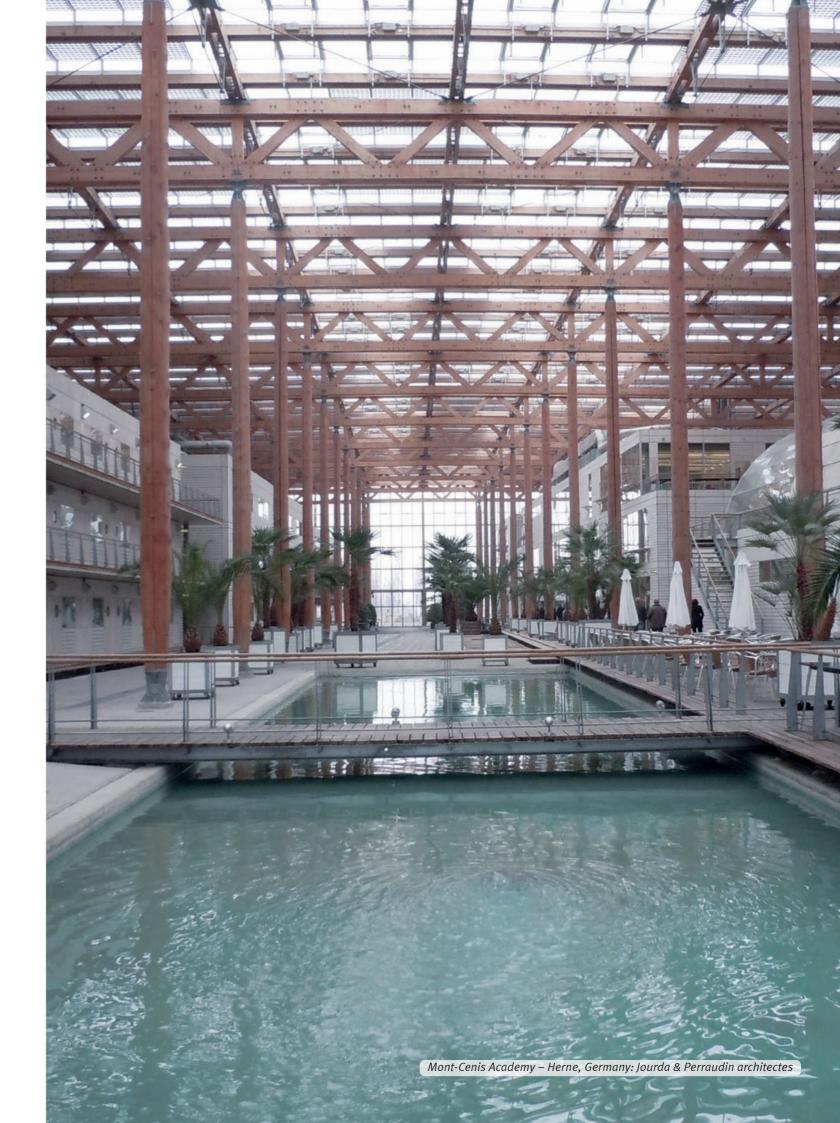
- "Architektur und Umwelt" which is successfully offered since 2006

- we started this programme in 2014 as an international part-time course. The Master in Green Architecture incorporates know-how gained from the concepts of the 'Fundamentals of Ecological Construction' from Weimar's Bauhaus-University's Faculty of Architecture, which is an established partner of the German Federal Environmental Foundation, or DBU. Thanks to our close cooperation with the DGNB (German Sustainable Building Council), we are able to integrate current developments in sustainable planning and construction into our teaching.

Once you have been introduced to the fundamentals, you will look at building design from all angles and implement it in all-round ecological concepts. We avoid one-sided technical specialisation. The concept has been tested in recent years in theory and practical projects.

All the course lecturers are pioneers in sustainable construction and have a broad base of scientific knowledge and practical showcase projects – both domestic and international. Thanks to their years of work, they have managed to develop their basic knowhow and experience to generate a profound, recognised body of knowledge. Since you won't find this level of potential at a single university, these specialists have been brought together from reputable universities and other institutions throughout Germany to create a true interuniversity approach.

Upon successfully completing the study programme students will acquire the internationally accredited Master's degree **Master of Science (M.Sc.)**. Your title reflects your commitment to personal further education, gives a high level of competence, and opens up further options, such as entry into a higher civil service career or the chance to write a doctoral thesis.





SCHEDULE AND INFORMATION FOR YOUR INDIVIDUAL STUDY PROGRAMME

he Master programme "Green Architecture" comprises 8 modules with 90 ECTS – Credits. The curriculum includes all fundamental aspects of sustainable and ecological planning and construction.

Semester 1 Credits (ECTS) 20

The start of the study programme will be taught in Oktober and the final seminars and presentations will be held in February next year. The modules introduces the work concerning the two design projects in semester 2 and semester 3.

Fundamentals
 Planning and design: existing buildings
 Energy evaluation of buildings

emester 2 Credits (ECTS) 23

The beginning of this term will be taught in February immediately after the final presentations of semester 1 and the final seminars and presentations will be held in July.

Planning and design: new buildings, Design Project l
 Building Materials / Pollutants
 Water and Landscape – the building and its surroundings
 Ecological holistic concepts: the building and its surroundings
 5

Semester 3 Credits (ECTS) 17

The beginning of this term will be taught in July immediately after the final presentations of semester 2 and the final seminars and presentations will be held in February next year.

In the third semester you can choose between the urban and the building-related specialisation:

Urban planning – Design Project II

Urban planning

Ecological Holistic Concepts: urban space

Or

Construction products in planning, constructing
and use of buildings – Design project II

Construction products in planning, constructing and use of buildings

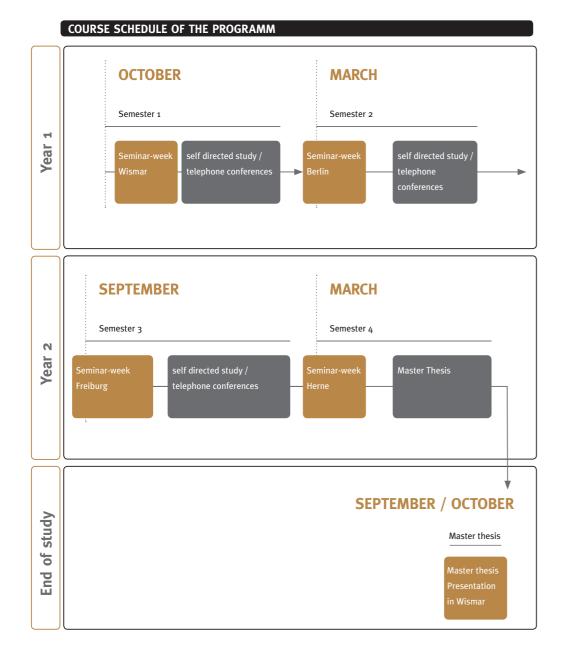
Ecological Holistic Concepts: Urban Planning and Design - basic principles

3

Semester 4 Credits (ECTS) 30

The beginning of this term will be taught in February immediately after the final presentations of semester 3 and the final presentation of the master thesis will be held in Oktober.

Thesis SeminarMaster Thesis and Colloquium27



The international Master "Green Architecture" is a four-semester part-time programme you complete while working. There are self-study phases (with tutorial support) combined with seminars and telephone conferences. Because of the high proportion of self-study, it is up to you when you work with your study topics. Our programme stands out thanks to its extensive individual support. Your lecturers and your course coordinators are available online and by phone throughout your studies for personal discussions and questions.

To ensure you can optimally balance studying and working and the best possible preparation for exams, our distance learning approach combines the following modules:

SELF-DIRECTED STUDY

At the beginning of the semester you will receive your semester package containing all relevant study materials. This package contains technical books, textbooks, specially designed study guides and instructions as well as digital presentations from your lecturers. There are also other tools and resources you can use in your professional practice. Through the electronic availability of study materials we guarantee the local, temporal and technical independence of your distance learning study.

SEMINARS

Seminars are organised at the beginning and the end of every semester, where you will have the opportunity to discuss in detail any issues with your lecturers, as well as build up a personal network within your study group. The seminars provide additional seminar-style adjusting of the study contents.

ONLINE CONFERENCES

Online conferences generally assist the preparation and follow-up of the seminars and discussions of examination performances. They are a good opportunity to discuss any issues with your lecturer and your study group.

ONLINE-CAMPUS

The Online Campus is available for data exchange for the duration of your study. In your personal download section, you will receive all important teaching and study organisation information – it's where all additional digital teaching materials are placed, as well as other tools and practical examples.

GROUP WORK

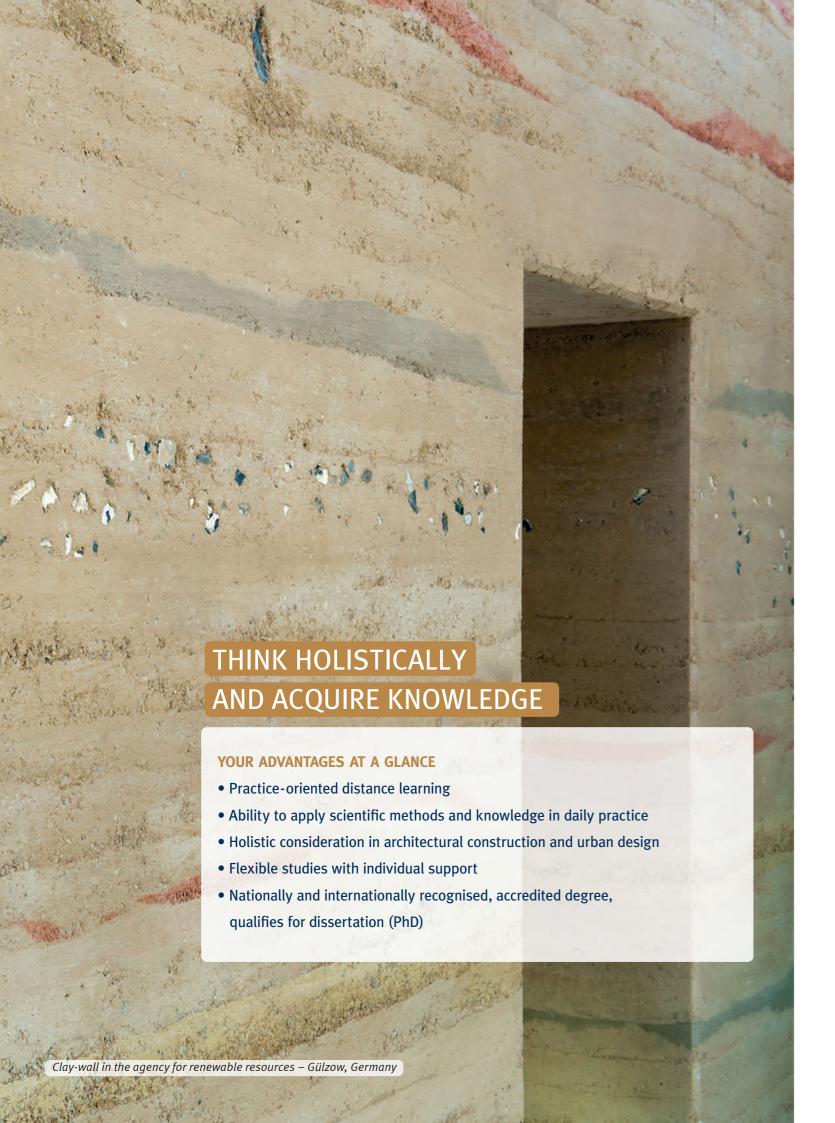
Specific projects or homework will be developed together in small study groups. On one hand this strengthens your contextual understanding while on the other it allows you to develop your social competence. In the end, the idea is that you are able to apply the knowledge you have acquired in specific examples.

EXAMINATION ACHIEVEMENTS AND MASTER-THESIS

Each module ends with an exam. Your lecturer will inform you about the type of exam you will have to take at the start of the semester. They are generally written exams, homework or project work.

STUDY LOCATIONS

The seminars for the Master course are held in various locations throughout Germany – generally in combination with module related excursions. Excursions provide a glimpse of what daily working practice is all about. The locations will be announced at the beginning of your studies. This rotation principle has been a great success and has been accepted and supported by the students. We would therefore like to continue it.



5 CURRICULUM FIRST SEMESTER

Fundamentals

Topics:

- Ecosystems
- Ecological construction
- Materials/production
- Urban ecology

Contents:

The module will deal with determining factors, fundamentals and questions regarding environmentally constructions:

- fundamentals of ecosystems and their impact concerning the bioactivity; function, regulation and development of the biosphere
- methods for the development of holistic ecological concepts
- knowledge of a sustainable rethinking within the production and utilization process according to the principle of ecological efficiency
- biosphere and urban space: analyse, planning elements and urban communities

Objectives:

Students will learn the tools of ecological construction: energy, water, construction products, construction - first concepts in these fields and discussions regarding the design. The systematic to develop holistic concepts will be presented. Finally the aspects of ecological construction - energy, water, construction products, waste, urban and open space, mobility - can be integrated.

Planning and design: existing buildings

Contents:

Students learn how to analyse existing building structures from an environmentally friendly perspective. They are made familiar with

- Designing and constructing ecological buildings: design principles / basic requirements of holistic Building design
- development of concepts for reconstruction and extension under ecological appropriate aspects
- Methods, instruments and techniques of holistic building design: goal alignment / project development/programme

Objectives:

Students will learn about important planning processes of complex building structures from an ecological perspective. They will be able to evaluate these regarding their sustainability and will be able to apply them in the fields of building construction, building material technology, structure and building climate for future developments.

Energy evaluation of buildings

Contents

Students will learn technical fundamentals of an energy efficient building from an environmentally friendly perspective on the example of lighting design, building climate and the energy saving ordinance (EnEV).

The following topics will be applied:

- Consideration of the building over the course of the day and year in relation to its location
- Sun, light, warmth and air indoor climate
- The building's climatic envelope function, dimensions and design
- Construction and installation building technology and the interplay between the building's construction and use

Objectives:

The students will be able to evaluate an office building unit in existing stock - in the fields of light, building comfort and energy efficiency.

Pictures 1-3: Kindergarten "Plappersnut" - Wismar, Germany: Institut for Building + Energy + Light Planning, Wismar





Planning and Design: new buildings - Design project I

Contents:

Students will be made familiar with design methods that enables them to gradually develop a design for various detailed levels and to optimize physical construction and energy orientated related criteria. They learn to develop integrated building concepts in consideration of:

- function and use (operation/utilisation),
- use and circulation areas (flexibility/variability),
- circulation areas and orientation (climate/location)
- Construction and technology (building climate),
- materials and structure (weight/mass)
- structure and design (additive/integrated systems)

Objectives:

Students apply their knowledge gained in the modules of the 1st semester. Furthermore they will be able to develop concepts for complex building structures concerning sustainable design principles for new buildings and constructions within an existing context.

The students will be working in teams of 3-4 students. The design project will be related to the module 'Ecological Holistic Concepts'.

Construction products / Pollutants

Contents:

Construction products and pollutants under ecological appropriate questions

- construction materials and products: systematization
- pollutants, dangerous and problematic products
 danger prevention and health protection
- material flow, conservation of natural resources and recycling of construction products
- selection tools of the construction products for sustainable buildings
- application of products within the planning and construction process

Objectives

The students will be made familiar with instruments for the evaluation of important construction products and building specific pollutants considering environment and health concerning aspects. They will learn how to select construction products regarding ecological and technical principles to apply them efficiently under environmental and health compatible considerations into the planning and construction process for the development of a sustainable building:

- estimate environmental impacts during the production process
- identify health related aspects within installation and usage
- apply instruments to support the product selection
- · organize the decision making
- acquire strategies to concentrate the amount of data to relevant information, to reduce the liability risk and to realize demanding goals regarding sustainability



Water and Landscape – the building and its surroundings

Topics:

- historical development of wastewater technology
- components of wastewater and its sub streams
- methods of wastewater discharge in buildings and building environment
- novel sanitary systems
- water and circulation systems within built-up
- purification and treatment systems for various sub streams
- sustainable water and nutrient cycles in the built-up environment

Contents:

Based on a short historical introduction into the field of wastewater technologies the students are made familiar with the components of local wastewater. In addition today common methods of wastewater discharge in buildings and building environment will be presented.

Basic considerations of novel sanitary systems will be supplemented by project and implementation samples.

Objectives:

Students will be able to identify effects that an installation of wastewater discharge and treatment may have on the architecture of the building and the building environment. They will be familiar with possible applications of sub stream orientated sanitary systems. In addition the students will be able to see the differences compared to conventional wastewater technology.

Ecological holistic concepts: the building and its surroundings

Contents:

The students will learn about questions regarding holistic constructions under environmental friendly aspects and to develop solutions in partial or full concepts. The criteria applied will include:

- subfields of environmental friendly holistic building: energy, water, construction products, Problems regarding open spaces, key objectives, possible solutions and practical implementation
- methods and systems to develop holistic ecological concepts
- The building and its surroundings: examples of different approaches, general and ecological requirements, analysis and development of ecological concepts, evaluation of environmental measures and the building pass.

Objectives:

The students will be made familiar with systems and methods regarding a development of integrated holistic concepts. The planning and design tasks will be divided into technical subareas and functional subspaces (cells) to link these in a process. Thanks to this extensive consideration – from the construction product to urban design to the built-up environment – integrated solutions will be established.

Students will learn to recognize problems of holistic building strategies from an environmentally friendly perspective and to develop solutions for both partial and holistic concepts.

SPECIALISATION

In the third semester you can deepen your knowledge by choosing an urban (A) or building-related (B) specialisation.



Specialisation (A)

Urban planning – Design project ll

Topic:

Development and design of an integrated holistic concept for a determined urban district from an ecological perspective. The students will be working in teams of 3 to 4 students.

Contents:

The students will deepen and complete their knowledge regarding the ecological basics of previous semesters. To meet the specific objectives and requirements of the chosen urban district the current state of knowledge regarding the most important overall concepts and additional topics of an ecological urban development for an holistic and integrated application within the design project needs to be deepened theoretically and conceptual. The following topics will be applied:

- urban structure (city of short distances, qualified mixture, solar urban planning)
- urban climate
- Water management and landscape architecture
- mobility
- green and open space planning
- urban gardening
- Terra Preta
- ecological-social and human-ethological aspects
- participation, transition town
- $\bullet \ \text{economy}$
- conceptual and methodical aspects
- implementation

Objectives:

The students will get the ability to develop an integrated urban district model by working in teams considering the 'Three-Pillar-Model – ecology, social aspects and economy'.

Ecological Holistic Concepts: urban space

Contents:

The following relevant contents will be applied:

- Urban space: examples and various approaches, general and environmental requirements, analyses and environmentally friendly concept development.
- Planning principals and synergies
- Ecological cycle management
- Additional concepts for energy, free space, mobility and water

Objectives:

Students will be able to develop ecological holistic concepts within the urban scale: main goals, additional goals and target values.



Specialisation (B)

Construction products in planning, constructing and use of buildings – Design project ll

Topics

- Building biology introduction
- Pollutants from a chemical and human-toxicological perspective
- Building products application, quality management and documentation

Contents

Students will be made familiar with:

- Basic questions concerning the relationship between human health and the built-up environment
- Comfortable living spaces conditional on user health and safety
- Essential pollutants of building products: influence, classification and prevention (based on your knowledge of the module 'Construction products/ pollutants'
- construction products selection based on product optimisation, market introduction of future-proof products and cost control
- Selection guide: seal of quality and standards
- Concepts for selecting ecological construction products considering planning, construction and the lifecycle of buildings
- Project work in context-related cooperation with the module 'Planning and Design' and 'Ecological holistic concepts'
- Building design with a focus on construction and the application of building materials

Objectives

Students will be able to select and apply construction products from an ecological and human-toxicological perspective.

Ecological Holistic Concepts: Urban Planning

and Design - basic principles

Topics:

- Urban planning and design fundamentals
- Planning principals and synergies
- Ecological cycle management
- Additional concepts for building materials/ construction, energy, free space, mobility and water
- Building assessment: developing a home information pack index.

Objectives:

Students will be able to develop ecological holistic concepts for buildings and construction products: main goals, additional goals and target value





Thesis Seminar

Topic

Master Thesis preparation

Contents

The focus of this seminar involves the preparation of each student's individual topic for presentation in the form of a master's thesis. The content will, therefore, be governed by the topics chosen. Principles of scientific work including methods and presentation will also be introduced.

Objectives

Students will be prepared to structure the theme, to choose the right methods and to develop the presentation of the Master Thesis.

Master Thesis and Colloquium

Topic

Editing the thesis for obtaining the title of "Master of Science" the identification of themes of the thesis takes place in consultation with the supervisor taking into account the following points:

- Classification in the course
- Scope
- Scientific claim
- Practical Relevance
- Sufficient presence of appropriate literature

The colloquium addresses the topic of the thesis and the surrounding questions regarding the study content. The thesis is a design task or a theoretical discussion of current issues from a part of the field of Lighting Design.

Objectives

Students will show the ability to solve a design task or a scientific approach on their own. The presentation will show the professional skills. You agree on the topic with two professors of your choice. The topic can and should be related to your professional activities.



9 ADMISSION REQUIREMENTS

he international Master course "Green architecture" is a further education programme. To be admitted you need to meet the following requirements:

- academic degree (Bachelor's, Master's, Diploma (FH), Diploma) in a related field of study obtained from a domestic or international university, and
- at least **one year of professional work experience** within the related field after completing your academic degree

Exception

If the first academic degree is not related to the field of study, the approval to study can only be given with proof of at least three years' professional work experience.

Please contact us to discuss in detail the admission requirements related to your personal situation.





The tuition fee of 3,950 EUR per semester includes:

- \bullet teaching and examination costs,
- costs of the Master Thesis,
- class materials,
- event catering,
- costs for excursions,
- as well as accommodation expenses during the seminars

You can also pay the semester fee in monthly instalments. We are happy to discuss this with you individually.

PRIVATE FINANCING

Our distance learning course is structured to meet the needs of working professionals, so you can complete your studies and maintain your professional and financial stability. In many countries the government promotes your further education through individual tax incentives. Depending on your individual income and your professional situation, you can claim the expenses of the distance learning course as tax deductible professional expense or special expense and receive a complete or partial reimbursement. For more detailed advice, please consult with your tax consultant or your responsible tax office.

FINANCING BY YOUR EMPLOYER

Many companies support the further education of their employees by granting them with leave or financial support. Within the framework of individual agreements there is a possibility to integrate your qualification aims into a personal development concept.

SCHOLARSHIPS

WINGS and Wismar University do not provide any scholarship. But we will assist you, when any help is required.



CONSULTING REGISTRATION

REGISTRATION

If you want to participate in one of our distance learning programmes please fill out the enclosed form or download it from our website and send it with all the required documents to the following address:

WINGS GmbH

Philipp-Müller-Str. 14 23966 Wismar Germany

FURTHER INFORMATION

If you have any questions please don't hesitate to contact us.

Phone: +49 (o) 3841 / 7537-582

E-Mail: architecture@wings.hs-wismar.de

www.wings-international.de

OUR PART-TIME STUDIES AND FURTHER EDUCATION

Below you will find a list of our current part-time studies. We are constantly developing new programmes and hence cannot guarantee the accuracy of the following information. If you are interested in one of our part-time programmes please visit our website **www.wings-fernstudium.de**.

PART-TIME STUDIES

BACHELOR

Business Administration

7 semesters – Bachelor of Arts (B.A.)

Sport Management

7 semesters – Bachelor of Arts (B.A.)

Business Information Technology

7 semesters - Bachelor of Science (B.Sc.)

Bachelor Forensic Engineering

8 semesters - Bachelor of Engineering (B.Eng.)

BACHELOR - ONLINE

Business Administration (online)

6 bzw. 8 semesters – Bachelor of Arts (B.A.)

Management of Health Care Organizations (online) 6 bzw. 8 semesters – Bachelor of Arts (B.A.)

Management of Non-Profit-Organizations (online)

6 bzw. 8 semesters - Bachelor of Arts (B.A.)

Commercial Law (online)

8 semesters – Bachelor of Laws (LL .B.)

MASTER

Business Consulting

4 semesters - Master of Business Consulting (M.BC.)

Sales and Marketing

4 semesters – Master of Arts (M.A.)

Business Information Technology

5 semesters - Master of Science (M.Sc.)

Information Technology and Management

4 semesters - Master of Engineering (M.Eng.)

Quality Management

4 semesters – Master of Engineering (M.Eng.)

Facility Management

4 semesters - Master of Science (M.Sc.)

Redevelopment

6 or 4 semesters – Master of Science (M.Sc.)

Structural Preservation

4 semesters – Master of Science (M.Sc.)

Green Architecture

4 semesters - Master of Science (M.Sc.)

Integrative Rural-Urban Development

5 semesters – Master of Science (M.Sc.)

Lighting Design

4 semesters - Master of Arts (M.A.)

Business Systems

4 semesters - Master of Business Systems (M.BS.)



DIPLOMA

Business Administration

9 semesters – Dipl.-Kff. / Dipl.-Kfm. (FH)

Business Administration - Postgraduate

7 semesters – Dipl.-Kff. / Dipl.-Kfm. (FH)

Business Administration with

Supplementary Certificate in Healthcare 9 semesters – Dipl.-Kff. / Dipl.-Kfm. (FH)

and the Supplementary University of Applied Sciences Certificate in Healthcare

Business Information Technology

9 semesters - Dipl.-Wirt.-Inf. (FH)

FURTHER EDUCATION

Mediation (Uni of A. Sciences)

8 months – Further Education Certificate Mediator (Uni of A. Sciences)

Business Mediation (Uni of A. Sciences)

12 months – Further Education Certificate Business Mediator (Uni of A. Sciences)

Systemic Business Coaching (Uni of A. Sciences)

5-7 months - Further Education Certificate in Business Coaching (Uni of A. Sciences)

Business Psychology

10 weeks per Competence field – Further Education Certificate (Uni of A. Sciences)

Business Mentor (Uni of A. Sciences)

5-7 months - Further Education Certificate Business Mentor/-in (Uni of A. Sciences)

Human Resource Manager (Uni of A. Sciences)

6-8 months - Further Education Certificate HR-Manager/-in (Uni of A. Sciences)

Health Care

9 months – Further Education Certificate in Health Care

Restructuring and Insolvency Consultancy

5 – 6 months – Further Education Certificate The Reconstruction Consultant and The Organization Consultant

Strategic Consultancy

2 – 3 months – Further Education Certificate The Strategic Consultant

Maritime Further Education Shipping Skills

individual courses – Further Education Certificate
Shipping

DSH (German language university entrance exam for foreign students)

2 weeks - Certificate Wismar University of Applied Sciences

PUBLISHING INFORMATION

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We invest considerable effort to ensure that the content of this booklet is kept up—to-date, accurate and complete. Nevertheless, the possibility of errors cannot be ruled out entirely. We cannot be held responsible for any inaccuracies of the content. WINGS GmbH reserves the right to change terms and conditions at any time without notice.

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