

IUDD Course Catalogue for Winter Semester 2021/2022

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The following lectures (L), seminars (S) and exercises (E) and the Model Project are part of the compulsory offers, according to your Performance Control Sheet. Additional offers for the elective courses are listed from page 07 on.

LECTURES

Module: Urban Development and Design

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig, Dipl.-Ing. Philippe Schmidt, M.Sc.,
and other lecturers

L IUDD Lectures (121223701)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Tuesdays, 15:15 – 16:45 | Audimax + online
start: 12.10.2021
registration: through online platform BISON

Content

The understanding of a well-balanced urban development regarding social, economic and environmental needs is one of the main outlines of European Urban Policies to promote more sustainable cities. In 2007 the responsible ministers for urban development from 27 countries declared the Leipzig Charter as guiding principle to reach a stronger cohesion of the different factors that would be necessarily be more streamlined to reach such sustainable development. Integrated Urban Development Concepts since then have become a main instrument of urbanists to guide this process.

Urban and architectural qualities under the objective of climate adaptation and protection, renewable resources and resource conservation as well as long-term intergenerational perspectives are just some of the topics that have to be negotiated for more comprehensive future cities. For the disciplines concerned with urban design this means to develop a holistic view on the city and an understanding between the different disciplines, also in terms of a social equilibrium in urban space.

For this purpose the lectures in this module are framing different objectives of the Master's Programme »Integrated Urban Development and Design« with the idea to support the "urban curator" to develop a holistic view on the city and an understanding between the different disciplines. The lecture introduces different perspectives on integrated urban development in the sense of multi-disciplinary planning approaches with a closer look on their implementation. Creative strategies and selected examples of "good practice" show how different approaches can be implemented through the lens of different disciplines, bringing together an academic and application-oriented reflection of the subject.

This year's IUDD lectures will be a combination of online-lectures and invited guest lecturers related to different approaches of requalifying cities and regions in terms of managing change and paradigm shifts. The goal of the lectures is to develop a general understanding and overview about how urban development and urban design can be considered in an interdisciplinary and integrated approach.

Module: Project Development

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig

L Real Estate Development (118220205)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Tuesdays, 09:15 – 10:45 | green:house, Bauhausstr. 9 C, Room 004
start: 19.10.2021
registration: through online platform BISON

Content

This course consists of lecture series and seminar, which offers an opportunity integrating architects, urban planners, developers to explore different topics of real estate development together with various aspects.

The lecture series will focus on the main topics of urban development and real estate, such as analyzing trends of the real estate market, offering economic perspectives in various phases of project development, introducing different property types together with different social milieus. Additional to this lecture series, there is a complementary seminar which allows you to exercise the knowledge which you collect from the lectures. In this semester, we will offer you an

opportunity to explore one specific real estate typology from these two: Retail or Hotel. The seminar will guide you through the tasks which you have to accomplish by broadening and deepening the insight of how an evaluation research report is composite at an early project development stage.

In order to acquire 6 Credit Points in total, you must attend both parts of the module, lecture and seminar.

Module: Urban Sociology

2 LVS / 3 CP

Prof. Dr. rer. pol. Frank Eckardt

L Urban Sociology (Introduction) (1724415)

target group: Master IUDD
language: English
Time/ location: Mondays, 13.30 – 15.00 | online
start: 18.10.2021

Content

Life in German cities has undergone substantial changes in the last decade. Not only the East German cities had to address new challenges after the reunification of the German nation in 1990, but also the West German cities had to reformulate their place in the complex urban networks. Cities are mirroring wider changes in German society where new social and political developments can be observed. Economic and cultural globalization has had a major impact on many aspects of urban life. This lecture will give an overview about major developments in German cities since the German reunification in 1990. It will provide both a sound source of information on the most important issues of German society and reflect important discussion of the international debate on urban studies. After delivering a historical overview of German cities, basic concepts of urban sociology will be developed by discussing subjects like gentrification, segregation, migration, life style diversity and others. The lecture provides an insight view into classical theories of urban sociology as deriving from Max Weber, Georg Simmel and the Chicago School.

SEMINARS

Module: Urban Development and Design

2 SWS/ 3 CP

Karl Eckert M.Sc.

S EU policies, integrated development and redensification strategies in Europe's urban and regional development (120223701)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Thursdays, 09:15 – 15:00 am, green:house, Bauhausstr. 9 C, Room 004 + online
start: 14.10.2021
registration: through online platform BISON

Content

The European Union is heavily investing in the transformation of the urban environment. This recognizes the key role cities play for realizing, for example, the ambitions of the European Green Deal. Upon closer inspection, broad EU policies are defined by historical, cultural, socio-economic and environmental aspects (among others). This makes EU funds and their use an important subject to debate. What are the current challenges being faced by EU regions? How can EU mechanisms be better integrated, support the goals of sustainable development and create the basis for a more just society? Are critical views being heard and are creative integrated solutions truly being implemented?

Integrated urban strategies will be a focus of the seminar. First a presentation of research results and experience in integrated urban projects funded by the EU, including the theoretical foundation and analytical methods will be presented. Topics such as defining "territorial cohesion" and identifying the urban dimension of EU Cohesion Policy will be presented to exemplify the impact currently happening on the city and state level. Students will undertake their own research on a topic of personal interest related to integrated urban development and compare this to EU strategies. At the end of the seminar students shall be able to navigate EU urban policy, identify the impact of integrated urban strategies and debate on future and creative urban visions.

Module: *Real Estate Development*

2 SWS/ 3 CP

Prof. Dr.-Ing. Bernd Nentwig,

Klaus Schmitz-Gielsdorf M.Sc.urb.man..

S Real Estate Development (118220206)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Tuesdays, 11:00 – 12:30 | green:house, Bauhausstr. 9 C, Room 004
start: 19.10.2021
registration: through online platform BISON

Content

This course consists of lecture series and complementary seminar, which offers an opportunity integrating architect, urban planner, designer all together to explore different topics of real estate development.

The lecture series will focus on the main topics of real estate and urban development, such as analyzing trends of the real estate market, offering economic perspectives in various phases of project development, introducing different property types together with different social milieus. Additional to this lecture series, there is an accompanied seminar 'Integrated Real Estate Development Seminar' which allows you to exercise the knowledge which you collect from the lectures.

In order to acquire 6 Credit Points in total, you must attend both parts of the module, lecture and seminar.

Module: *Urban Sociology*

2 SWS/ 3 CP

Dr. phil. Bernhard Stratmann

S Green Dreams of Suburbia: Climate Change, Sustainability, the COVID-19 pandemic and Urban Form (120220601)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Wednesdays, 13:30 – 15:00 am, green:house, Bauhausstr. 9 C, Room 004
start: 13.10.2021
registration: through online platform BISON

Content

When looking at suburbs, people and planners often see something very different. Whereas the former dream of a better lifestyle, the latter often talk about urban sprawl and point to a long list of negative aspects of this kind of urban form. Particularly in view of rising energy consumption, Peak Oil and possible climate change continuing trends towards global suburbanization have caused concerns. However, more recently the "reading" of suburbs has changed. The prevailing critical discourse has been challenged by the assumption that suburbs – if designed and managed well – can be aligned with the overall goal of sustainability. This includes a reappraisal of "suburbanism as a way of life" that might offer a lot. The seminar will examine the current debate by taking American, Australian, Chinese and German cities as an example. To this end concepts of sustainable urban development will be explored, followed by a practice review. It will be argued that the debate on suburbia is embedded in a much larger, underlying debate on the good life.

The Coronavirus (COVID-19) pandemic and similar future risks give rise to questions such as: Is urban densification still a good approach in urban planning? Is the global trend towards more and ever larger metropolises healthy and sustainable? Would more decentralized settlement structures and lower urban densities better protect human health, and, in doing so, increase the overall resilience of cities and countries? Or would these strategies, on the contrary, create an abundance of adverse effects?

Literature

A list of recommended readings will be provided at the first session of the seminar, it will be part of the course outline.

Module: Computational Urban Analysis and Simulation
Vertr.-Prof. Dr. Sven Schneider, Abdulmalik Abdulmawla,
Dipl.-Arch. Ekaterina Fuchkina
S Parametric Urban Design and Analysis (118222405)

2 SWS/ 3 CP

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Wednesdays, 15:15 – 16:45 | Belvederer Allee 1 A, Mediapool 003 + online
start: 13.10.2021
registration: through online platform BISON

Cities are complex human-made objects. They consist of thousands of elements and need to satisfy numerous human needs. The definition of urban form (street network, plots, building volumes) is a crucial step in the planning of cities because it has the longest lasting effect on their social, economic and ecological performance. Thus, this step needs to be undertaken with greatest care. In this course we will deal with computational methods to support this process. Firstly, you will learn to create parametric models, that allow to quickly generate a large amount of design variants. Secondly, you will get introduced to spatial analysis methods (density, visibility and accessibility) in order to identify different (human centered) qualities of the generated urban forms.

The theories and methods you learn in this class provide the basic theoretical and technological framework for integrated urban development and design, which we will further deepen in the study project in the next semester.

The knowledge provided through online seminars will be deepened in consultations and documented in several exercises. No prior technical knowledge is required.

Module: Introduction to Study Project
Jun.-Prof. Dr. Reinhard König and others
S Urban Modeling and Simulation (UMS) (119223303)

2 SWS/ 3 CP

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Wednesdays, 11:00 – 12:30, Belvederer Allee 1 A, Mediapool 003 + online
start: 13.10.2021
registration: through online platform BISON

Content:

The participants of this seminar are introduced to urban simulation methods. We deal with the modeling of complex spatial systems on the regional and urban level. In this context computational analysis methods for urban fabric (e.g. for pedestrian movement or economic potentials) and models for computing interactions between land uses are introduced. By means of system dynamics models we can simulate temporal changes of “stocks and flows”. The knowledge provided through online seminars will be deepened in consultations and documented in several exercises. No prior technical knowledge is required.

Remarks

The knowledge provided through online seminars will be deepened in consultations and documented in several exercises. No prior technical knowledge is required.

EXERCISE COURSES

Module: Research Methods and Professional Communication **2 SWS/ 3 CP**

Dipl.-Kaufm. Tore Dobberstein

E Moderating Urban Planning Processes (118223704)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Thursdays, 09:15 – 15:00, green:house, Bauhausstr. 9 C, Room 004
start: 28.10.2021 (Blocks)
registration: through online platform BISON

Content

Integrated development and design processes require skills to effectively communicate with multiple urban actors, ranging from project stakeholders to citizen audiences. Fundamental knowledge of moderation is an important asset for the work with different interest groups in the urban sphere. The exercise course introduces basic moderation skills to meet today's challenges in the field integrated urban development and design, such as cooperative planning, mediation, and project evaluation. This includes the accurate detection of different interests, strategies for multi-interest decisions, and to work with potentially conflicting positions.

The lecture teaches tools to guide group meetings and planning workshops towards a productive output. Practical exercise sessions address techniques to visualise and to moderate planning related issues. The implementation of informal planning strategies and dialogue based communication are discussed in the course.

Module: Research Methods and Professional Communication **2 SWS/ 3 CP**

Dr.-Ing. Nicole Baron

E Academic Skills (118223501)

target group: Master Integrated Urban Development and Design
language: English
time/ location: Tuesdays 13:30 – 15:00, green:house, Bauhausstr. 9 C, Room 004
start: 02.11.2021
registration: through online platform BISON

Content

In this seminar, we will understand and practice producing scientific knowledge with a focus on the urban realm. The course will include learning about the craft of scientific writing, rules of good scientific practice, selecting research methods, time planning, and the research steps from gathering data to the finished text. Guided by the lecturer, students will work in small teams to practice the individual steps of "doing research." In the end, students will apply their new skills by developing and presenting a research concept.

MODEL PROJECT

Module: Model Projects

2 SWS/ 3 CP

Dipl.-Ing. Philippe Schmidt M.Sc.

S Reflective Urban Practice – Model Project Preparatory Course (118223705)

target group: Master Integrated Urban Development and Design (IUDD – RUP), only 1st Semester
language: English
time/ location: Wednesdays, 09:15 – 10:45 , green:house, Bauhausstr. 9 C, Room 004
start: 20.10.2021
registration: through online platform BISON

Content

The Model Project Preparatory Course “Reflective Urban Practice” introduces course participants to current trends in urban development and interdisciplinary approaches that target on “good practice” in applied research, practice and administration. With the diverse professional fields existing in the field of urban development and design participants are prepared to streamline their existing experience for the application at a Model Project Partner. The seminar serves as preparation for the application and placement phase prior to the Model Project semester starting in autumn 2022. The “Model Project” (24 CP) is the praxis semester that takes place world-wide at a selected “Model Project Partner” (offices, institutions, administration) for the purpose of practical training. The internship arrangement (minimum 3 months) is related to urban design, planning, research and development. The training place is either proposed through the programme or the student, and approved through the coordinator of the Model Projects.

Learning Objectives: Besides an introduction to the 'Model Projects Integrated Urban Development and Design' students learn how to link their existing professional experience and interests to a broader field of professional activities related to planning and design. They present and reflect their professional experience. In a second part, the students are coached to further develop their specific interests and communicate them in their professional portfolio and actively take part in the targeted application for the reflective practice semester. First semester students are also attending the Model Project Forum to get first-hand impressions of content and form of different experiences from last semester's Model Projects.

Participation is mandatory for first semester students in Integrated Urban Development and Design - Reflective Urban Practice (IUDD-RUP). Class based on continuous and active participation.

Module: Model Projects

4 SWS/ 6 CP

Prof. Dr.-Ing. Bernd Nentwig, Dipl.-Ing. Philippe Schmidt, M.Sc.

S Model Project Forum and Seminar (1744294)

target group: Master Integrated Urban Development and Design (IUDD – RUP), only 3rd Semester
language: English
time/ location: Online seminar, final rehearsal and forum in Weimar, dates to be announced
start: Participants will be informed via E-Mail
registration: Online on moodle platform when course starts

Content

In this module, the International Model Project Forum is prepared in different steps. The seminar's goal is to exchange about and learn from different projects in the field of urban practice which third semester students have been involved during their Model Project semester in the winter semester 2021/22. The seminar challenges students to contextualise the own individual practical work and research experience into a broader context of reflective urban practice and research. This allows participants to deepen the understanding between practice and theory, to contribute real-world-experience in a reflective way and to develop a own set of interdisciplinary approaches within their individual professional role. The seminar also prepares students to hold a lecture dedicated to the International Model Project Forum, which closes as a highlight of the academic training. For this public academic event International Model Project Partners are invited to the forum as senior experts and critiques to the student presentations.

The seminar mainly consist of three phases and is accompanied through a virtual class-room, including a guided course with specific due dates, individual and groupwise online-consultations, life-meetings of the entire group and P2P-meetings as well as video-based presentation-coaching through Adobe Connect. Course requirements include a final presentation, an interim report and a final report (25-30 pages) which is handed in online and as a printed version. After final rehearsals the module closes with the “International Model Project Forum – Reflective Urban Practice” (end of April 2022), requiring students attendance in Weimar or any selected place where the forum takes place. The forum fosters a critical but practice-related discussion among students and model project partners who are attending as guest critiques.

In this module students develop an in-depth understanding and exchange about praxis activities dedicated to integrated urban development in an international context. Participants reflect the self-positioning and self-understanding of their professional role in the sense of 'Reflective Practice' related to urban strategies and interdisciplinary planning approaches. The final goal is to focus individual experiences about 'Good Practice' through adequate professional project-based training and praxis reflection. Participation is mandatory for third semester students in Integrated Urban Development and Design, Reflective Urban Practice. Class based on continuous and active participation.

MASTER - COLLOQUIUM

Module: Masters' Thesis

2 SWS/ 3 CP

Dipl.-Ing. Philippe Schmidt M.Sc. / different professors

Master - Colloquium EU/AdUrb

target group:	Master EU, Master AdUrb
language:	English
time/ location:	Block course/ see notice-board
start:	Please see notice-board
registration:	Not necessary, all students accepted for the Master examination have to participate

Content

The course is the platform for presentation and discussion of the Masters theses. The candidates will present the intermediate results of their work on their individual topics. Suggestions for further action will be made by fellow students and academics attending the colloquium. Admission for the Master examination is required for participation. Performance record (attestation) will be achieved by giving an oral presentation.

ELECTIVE COURSES

Module: Elective

2 SWS/ 3 CP

Jun.-Prof. Dr.-Ing. Reinhard König

S Parametric Energy Modelling and Analysis: Introduction to energy modelling in the urban context (121223802)

target group: Master Integrated Urban Development and Design, Master MediaArchitecture, Erasmus
language: English
time/ location: Fridays 09:15 – 10:45 green:house, Bauhausstr. 9 C, Room 004 + online
start: 15.10.2021
registration: through online platform BISON
Bauhaus.Module

Content

In this module, urbanist and civil engineer Jakob Becker will give insights into energy modelling and simulation in the building context using the programming environment Grasshopper for Rhino.

First, we introduce the students to the basics of the visual programming environment Grasshopper for Rhino (this course does not require experience in working with Grasshopper), of energy-focused architecture and of working with energy and weather data. Afterwards, the students are guided through different examples of energy simulation applied in urban contexts with the main focus lying on solar radiation simulation and adjacent fields, such as daylight simulation, energy gains calculation, location optimization and geometry definition based on solar radiation and climatic conditions.

This module will give insights into solar urban planning principles and aims to raise the awareness of integrating local climatic conditions into the process of urban planning.

Module: Elective

4 SWS/ 6 CP

Prof. Dr. Uwe Plank-Wiedenbeck, Maximilian Rünker, M.A.,
Dipl.-Ing. Julius Uhlmann, Dipl.-Ing. Philippe Schmidt M.Sc.)

L International Case Studies in Transportation (2909021)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ location: Mondays, 19:30 – 20:30 | Coudraystraße 11, Lecture Hall 001
start: 17.10.2021
registration: through online platform BISON
Bauhaus.Module

Content

Part A:

How can we achieve sustainable mobility and make cities more liveable? The question will be answered by presenting best practice solutions worldwide. Guest lectures about planning practices in an international context, particularly in urban areas. Detailed information about the eight guest lectures (speakers and topics etc.) will be announced.

Part B:

At least one student trip (about three to four days) to a European city (e.g. Copenhagen – cyclist capital, Hamburg – Town planning Harbour city, Berlin – German Aerospace Centre etc.). Detailed information about the excursions (destination, venue, timetable etc.) will be announced.

Update: Due to the current COVID-19-Pandemic, there will be no excursion in the winter term 2021/2022.

Literature:

SCHILLER; KENWORTHY: An introduction to sustainable transportation – Policy, planning and implementation (2018)

HUTTON: Planning sustainable transport (2013)

TUMLIN: Sustainable transportation planning – Tools for creating vibrant, healthy, and resilient communities (2012)

LITMAN: New Mobilities : Smart Planning for Emerging Transportation Technologies (2021)

Various articles in the journal INTERNATIONAL TRANSPORTATION

Remarks

Lecture series in cooperation with FH Erfurt University of Applied Sciences

Guest lectures take place on Mondays 19:00-20:30.

Information event Oct 11th, 17:00

Please apply until 13.10.2021 23:59 only via Email to vsp@bauing.uni-weimar.de (maximum one page A4)

Module: Elective

2 SWS/ 3 CP

Eng. Mohamed Abdel Aziz M.Sc.

S GIS Basics for Integrated Urban Development (1211203701)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ Mondays, 15:15 – 16:45, green:house, Bauhausstr. 9 C, Room 004
location:
start: 11.10.2021
registration: through online platform BISON

Content

Geographic Information Systems (GIS) are a useful tool for multiple disciplines and user groups. In urban development and planning, different constituencies like local authorities interact through GIS e.g. applying it in environmental agencies, transportation, energy, resource and waste management, retail, disaster management, and socio-economics. Collecting, managing, analysing and visualising data with GIS as an information sharing tool can help in different stages of planning processes – from identifying problems to evaluating different planning proposals. Working with GIS allows to create easy understandable maps and to enable communication processes.

This course introduces different spatial analysis of Vector and Raster data based on ESRI ArcGIS Toolbox tools. For developing a complex process through different tools, ModelBuilder will be applied to connect different tools and automates workflow based on different variables and parameter. The participants will be introduced to ModelBuilder interface, properties and how to create, run and edit the Model. Various spatial analysis qualifications will be gained such as where to allocate each use/service based on pre-identified criteria.

The course will be assessed based on assignment and final project where participants create their own models and present it.

It is mandatory to be familiar with the basic knowledge of ArcGIS such as create, edit and deal with Geodatabases, feature dataset, feature classes, data selection and visualization. As well as be able to obtain ARGIS desktop license as Bauhaus university may not be able to provide free license to students.

Module: Culture and Urbanism of China

2 SWS/ 3 CP

Dr. Eduard Kögel

S Chinese Culture and Society in the Perspective of Urban Development and Architecture (118223701)

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ Mondays, 09:15 – 12:30 pm, green:house, Bauhausstr. 9 C, Room 004 + online
location:
start: 01.11.2021
registration: through online platform BISON

Content

Over the last 40 years, society and cities in the People's Republic of China have changed dramatically. At the beginning of the 1980s China was still considered a developing country, but today it is one of the world powers whose voice is clearly audible in many parts of the world. Urban and cultural development in the context of architecture and planning show the possibilities and dreams of a society. In the case of China, the realities and constraints of a mass society, which must find

its way between individualisation and equality, are also reflected in design, which in turn has an impact on social and political developments. So what does design look like that has to find a way between these poles that takes into account the different conditions in the metropolis and the hinterland?

The seminar provides background information, discusses scenarios and draws a picture of future challenges. But it also asks what can be learned and under what conditions solutions can be exported from China.

S/E/L Other relevant elective courses

Electives from suitable fields can be chosen at the BUW and should be confirmed through the academic coordinator of IUDD within the two weeks of the registration phase

Excursion

Dipl.-Geogr. Britta Trostorff

Online + Excursion

Spatial Dynamics and Approaches to Resilient Development –

Case Study Thuringian Spatial Dynamics and Approaches to Resilient Development – Case Study Thuringian Forest

target group: Master Integrated Urban Development and Design, Erasmus
language: English
time/ Will be announced
location:
start: Will be announced

Content

In regard of spatial dynamics related to urbanisation and shrinking regions, public services and dispersed development perspectives the special seminar is focused on an excursion to the Thuringian Forest and the Hinterlands of Thuringian cities. The Thuringian Forest will serve as case study as it combines in excellent way a wide variety of different factors that allow students the critical analysis of local effects of global processes and developments. The purpose is that the international group of IUDD students gets familiar with specific aspects of regional geography, history and culture of their study region. The goal is to better understand small rural towns and landscapes, also considering circular approaches about regional and renewable resources.

Imprint:

bauhaus.institut für experimentelle architektur

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Professorships of the bauhaus.institute for experimental architecture
(*alphabetical order by subject*)

**Professur Bauformenlehre
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**Professur Baumanagement und Bauwirtschaft
(Architectural Management)**

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**Professur Bauphysik
(Building Physics)**

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**Junior Professorship Computational Architecture
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**Professur Entwerfen und Baukonstruktion
(Design and Building Construction)**

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**Professur Entwerfen und Tragwerkskonstruktion
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Prof. Dipl.-Ing. Rainer Gump
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**Experimentelle Werkstätten Architektur
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