

Vorlesungsverzeichnis

English-taught courses of the Faculty

Winter 2022/23

Stand 23.03.2023

English-taught courses of the Faculty

3

English-taught courses of the Faculty

118220205 Real Estate Development - Lecture

B. Nentwig

Veranst. SWS: 2

Vorlesung

Di, wöch., 09:15 - 10:45, Bauhausstraße 9c - Arbeitsraum 004, 18.10.2022 - 31.01.2023

Beschreibung

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 lectures and seminars.

118220206 Real Estate Development - Seminar

B. Nentwig, P. Schroeder

Veranst. SWS: 2

Seminar

Di, wöch., 11:00 - 12:30, Bauhausstraße 9c - Arbeitsraum 004, 18.10.2022 - 31.01.2023

Beschreibung

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 lectures and seminars.

12222401 IN A PARALLEL REALITY – What if you have designed the „Mensa am Park“

S. Schneider, O. Kammler, E. Fuchkina, G. Bailey

Veranst. SWS: 8

Projektmodul

Do, wöch., 09:15 - 16:45, Belvederer Allee 1a - Allg. Medienpool 003, 13.10.2022 - 02.02.2023

Do, Einzel, 09:15 - 16:45, Belvederer Allee 1a - Allg. Medienpool 003, 09.02.2023 - 09.02.2023

Beschreibung

Buildings are made for humans. So, the design of buildings requires architects to anticipate how humans will experience and behave in the planned environment. However, this is not an easy task due to the vast amount of influencing factors coming from the physical environment (such as geometry, light, color) and from the users themselves (different social backgrounds, abilities, expectations, age, etc.). This challenges the design of buildings and results in the fact that even architecturally remarkable buildings, are sometimes hard to understand for building users. We might ask, can't science support designers here?

The role of science in design can be seen in identifying regularities in natural phenomena that can be used in the definition of building parameters. Whereas physical sciences found their way into the design of buildings (such as structural and thermal behaviour), sciences dealing with human behaviour and emotions (e.g. environmental psychology) are widely lacking such an integration.

In this project we will try to bridge the gap between architectural design and environmental psychology. Therefore, we first will learn how to evaluate built environments in terms of human-centred aspects such as wayfinding, social interaction and spatial experience. Second we will develop a design strategy that anticipates the 'human-perspective' in the creation of spaces. As a case we will use the reconstruction of the 'Mensa am Park'. This building was recently reconstructed, however, seems to not fully address the requirements for a contemporary university canteen. So, we ask: "What if we could try again and create a better version of the building?"

Therefore, we will first conduct a user study in the existing building and systematically identify strengths and weaknesses in relation to user experience. Second, we will develop ideas for improving the building. Third and finally, the designs are modelled in 3D and tested using computational spatial analyses and a Virtual Reality based User Study.

The project is accompanied by two seminars: "Computational Methods for User-Centered Architectural Design" and "Parametric Building Information Modeling", which are mandatory for this project.

118222403 Parametric Building Information Modeling

O. Kammler, S. Schneider

Veranst. SWS: 2

Seminar

Di, wöch., 09:15 - 10:45, Belvederer Allee 1a - Allg. Medienpool 003, 11.10.2022 - 31.01.2023

Beschreibung

Beim Entwurf von Gebäuden müssen zahlreiche Elemente (wie z.B. Gebäudeform, Räume, Öffnungen, Erschließungsform, Konstruktion) definiert und sorgfältig aufeinander abgestimmt werden. Building Information Modeling (BIM) unterstützt diesen Prozess, indem es Gebäudeelemente vorhält, die schnell platziert und verändert werden können. Aufgrund der Vielzahl der Elemente, aus denen ein Gebäude besteht, gestaltet sich dieser Prozess jedoch oft als zeitaufwendig und unflexibel bei Änderungen im Entwurf. Indem Regeln definiert werden, die beschreiben wie Elemente zueinander in Beziehung stehen sollen (Parametrisierung), können Modelle erzeugt werden, die sich automatisch an bestimmte Parameter (z.B. Gebäudehöhe, Gebäudebreite, Anzahl der Räume) anpassen.

Im Seminar werden wir die Möglichkeiten der Parametrisierung von Gebäudeinformationsmodellen untersuchen. Die verwendete Software ist Revit und PlugIn Dynamo.

Für Studierende im Projektmodul „Design by Research“ ist dieser Kurs verpflichtend.

engl. Beschreibung

When designing buildings, numerous elements (e.g. building shape, rooms, openings, circulation, construction) must be defined and carefully attuned. Building Information Modeling (BIM) supports this process by providing building elements that can be easily placed and modified. However, due to the large number of elements that make up a building, this process is often time-consuming and inflexible when changes are made to the design. By defining rules that describe how elements should relate to each other (parameterization), models can be generated that automatically adapt to certain parameters (e.g. building height, building width, number of rooms).

In this seminar we will examine the possibilities of parameterization of building information models. The software used is Revit and PlugIn Dynamo. For students in the project module "Let's try again!" this course is obligatory.

118222404 Computational Methods for User-Centered Architectural Design

S. Schneider, E. Fuchkina

Veranst. SWS: 2

Seminar

Di, wöch., 11:00 - 12:30, Belvederer Allee 1a - Allg. Medienpool 003, 18.10.2022 - 31.01.2023

Beschreibung

The creation of spaces lies at the heart of architectural design. To understand how people are affected by the configuration of space, is essential in order to create human-friendly, and thus in the long run, sustainable environments. In this course you will learn different methods for evaluating the 'usability' of buildings. Therefore, we will firstly look at, what 'building usability' actually means and how it can be enhanced (e.g. how does a spatial configuration promote wayfinding, social interaction, spatial experience). Secondly, you will learn computational methods for quantifying spatial configurations for evaluating design proposals (e.g. visibility, accessibility and daylight). Thirdly, we will introduce a VR-based toolbox for conducting pre-occupancy evaluations of building designs.

The seminar is mandatory for students of the project „Let's Try Again!“.

Voraussetzungen

Studiengänge: Master Architektur, Master MediaArchitecture

119112401 Computational Methods for User-Centered Architectural Design (Ba)

S. Schneider, E. Fuchkina

Veranst. SWS: 2

Übung

Di, wöch., 11:00 - 12:30, Belvederer Allee 1a - Allg. Medienpool 003, 18.10.2022 - 31.01.2023

Beschreibung

The creation of spaces lies at the heart of architectural design. To understand how people are affected by the configuration of space, is essential in order to create human-friendly, and thus in the long run, sustainable environments. In this course you will learn different methods for evaluating the 'usability' of buildings. Therefore, we will firstly look at, what 'building usability' actually means and how it can be enhanced (e.g. how does a spatial configuration promote wayfinding, social interaction, spatial experience). Secondly, you will learn computational methods for quantifying spatial configurations for evaluating design proposals (e.g. visibility, accessibility and daylight). Thirdly, we will introduce a VR-based toolbox for conducting pre-occupancy evaluations of building designs.

The seminar is mandatory for students of the project „Let's Try Again!“.

Voraussetzungen

Studiengänge: Master Architektur, Master MediaArchitecture

118223501 Academic Skills

N. Baron

Veranst. SWS: 2

Übung

Di, wöch., 13:30 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 18.10.2022 - 31.01.2023

Beschreibung

In this seminar, students 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.

engl. Beschreibung

At the beginning we will deal with the process of production of scientific knowledge as such considering basic 'rules' of scientific work. As learning by doing is usually a successful way which makes us experiencing the specific demands of a research process you will work in the course in small teams defining and planning your own research project. Starting the practical work we will first deal with different sources of information, how to decode and evaluate them as well as how to quote and organize them properly in scientific working and writing. Now having an idea how and where to gather information you will define your own research question and develop a research concept step by step going from a proper wording of the research question to the selection of fitting research methods, time planning and documentation.

Leistungsnachweis

Written examination (term paper) using the score pass/fail

118223704 Moderating Planning Processes**T. Dobberstein**

Veranst. SWS: 2

Blockveranstaltung

Do, Einzel, 09:15 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 27.10.2022 - 27.10.2022

Beschreibung

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.

118223703 Introduction to Study Project**R. König**

Veranst. SWS: 2

Seminar

Do, Einzel, 09:15 - 10:45, Bauhausstraße 9c - Arbeitsraum 004, 20.10.2022 - 20.10.2022

Beschreibung

The seminar serves as preparation for the Study Project semester in spring/summer 2021. Besides an introduction to the 'Model Projects Reflective Urban Studies', students will learn to present their personal portfolios for the prospective study project partners at an early stage in the semester. This also consist of individual presentations. The first semester students (only Reflective Urban Practice) are also invited to participate in the third semester's meetings of the model project seminar to get first impressions of content and form of different experiences from last semester's model projects.

Participation is obligatory and only for IUDD students and will be credited as part of the Model Projects. The seminar takes place in presence partly.

engl. Beschreibung

The seminar serves as preparation for the Study Project semester in spring/summer 2019. Besides an introduction to the 'Study Projects Reflective Urban Studies', students will learn to present their personal portfolios for the prospective study project partners at an early stage in the semester. This also consist of individual presentations. The first semester students (only Reflective Urban Practice) are also invited to participate in the third semester's meetings of the model project seminar to get first impressions of content and form of different experiences from last semester's study projects.

Participation is obligatory and only for IUDD students and will be credited as part of the Study Projects

121223701 IUDD Lectures

B. Nentwig, P. Schmidt

Veranst. SWS: 2

Vorlesung

Di, wöch., 17:00 - 18:30, Bauhausstraße 9c - Arbeitsraum 004, 18.10.2022 - 31.01.2023

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

E. Kögel

Veranst. SWS: 2

Seminar

Mo, Einzel, 09:15 - 12:30, Bauhausstraße 9c - Arbeitsraum 004, 24.10.2022 - 24.10.2022

Beschreibung

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.

118223705 Reflective Urban Practice: Model Project Preparatory Course

P. Schmidt

Veranst. SWS: 2

Seminar

Mi, wöch., 09:15 - 10:45, Bauhausstraße 9c - Arbeitsraum 004, 19.10.2022 - 01.02.2023

engl. Beschreibung

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 in autumn/ winter 2019. 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.

Bemerkung

target group: Master Integrated Urban Development and Design (IUDD – RUP) 1st Semester

language: English

registration: through BISON online platform

119223303 Urban Modeling and Simulation (UMS) - Basic

R. König

Veranst. SWS: 2

Seminar

Mi, wöch., 11:00 - 12:30, Belvederer Allee 1a - Allg. Medienpool 003, 12.10.2022 - 01.02.2023

Beschreibung

Im Rahmen des Seminars werden die Teilnehmer in Methoden der Stadtsimulation eingeführt. Wir werden uns mit der Modellierung komplexer räumlicher Systeme auf regionaler und urbaner Ebene befassen. Es werden Analyse zur Nutzung urbaner Strukturen eingeführt (z.B. Fußgängerströme oder ökonomische Potentiale) sowie Modelle für Interaktionen von Flächennutzungen vorgestellt. Es wird vorgestellt, wie mittels System Dynamics Modellen zeitliche Veränderungen von „Stocks and Flows“ simuliert werden können.

Die im Rahmen von Online-Seminaren vermittelten Kenntnisse werden in Konsultationen vertieft und anhand mehrerer Übungsaufgaben belegt. Es sind keine technischen Vorkenntnisse erforderlich.

engl. Beschreibung

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.

119223901 European Cities

D. Zupan

Veranst. SWS: 2

Vorlesung

Di, wöch., 15:15 - 16:45, Coudraystraße 13 B - Hörsaal 3, 18.10.2022 - 31.01.2023

Di, Einzel, 15:15 - 18:30, Marienstraße 13 C - Hörsaal D, 14.02.2023 - 14.02.2023

Beschreibung

What is the "European City"? How did cities in Europe develop historically? And what are trends and challenges that characterize contemporary European urban development?

By engaging with these questions, the lecture provides basic and interdisciplinary knowledge on European urban development. It discusses central concepts related to the "European City", provides an overview of foundational research, and explores new strands in urban studies. It illustrates these developments with case studies from different European cities. In the first part, the lecture reflects on the history of urban development and the material and immaterial urban heritage in European cities, and engages with the analytical and normative dimensions of the "European City". In the second part, it confronts the conceptual and theoretical concepts with current socio-spatial, economic and political developments in different European cities, such as neoliberal urbanism, processes of postsocialist urban transformation or the construction of heritage.

Bemerkung

In-Class

Starting time, 18.10.22

Leistungsnachweis

Written Test / Grade

120223701 EU policies and integrated urban strategies in Europe's urban and regional development

K. Eckert

Veranst. SWS: 2

Blockveranstaltung

Do, wöch., 09:15 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 13.10.2022 - 20.10.2022

Do, wöch., 09:15 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 10.11.2022 - 17.11.2022

Do, Einzel, 09:15 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 08.12.2022 - 08.12.2022

Do, Einzel, 09:15 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 05.01.2023 - 05.01.2023

Beschreibung

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.

121220402 Pre-Thesis Course (Building an Proposal)

M. Lloyd, S. Zierold

Veranst. SWS: 2

Seminar

Do, Einzel, 14:00 - 18:00, Marienstraße 7 B - Seminarraum 101, 27.10.2022 - 27.10.2022

Do, unger. Wo, 14:00 - 18:00, Marienstraße 7 B - Seminarraum 101, 10.11.2022 - 24.11.2022

Do, wöch., 14:00 - 18:00, Marienstraße 7 B - Seminarraum 101, 09.02.2023 - 16.02.2023

Do, Einzel, 14:00 - 18:00, Marienstraße 7 B - Seminarraum 101, 23.02.2023 - 23.02.2023

Beschreibung

In order to help 3rd Semester Master MediaArchitecture students and Master students from other faculties become better prepared for their upcoming thesis semester, this module is designed to facilitate students to become aware of what is to be expected before and during their thesis projects, particularly when it comes to critical and theoretical writing. During this course students shall understand what the overall criteria is required within a contextual thesis, and shall learn to develop and finalize an extended thesis proposal that is able to indicate the important analysis of their given work/ subject matter in question. It is where master-students shall importantly learn how to expand contexts attached to their interested thesis perspectives, into given subjects that can be fundamentally narrowed into a particular set of researched topics, and achieve an overall connecting narrative. In these lectures, and workshops students will be able to openly develop their given arguments and arrangement of counter-arguments, while learning to maintain a decent level of primary and secondary research, as well as forming important questions and concerns that could become attached to their final thesis. In addition, students shall be taught the goal of keeping a high level of narrative-telling and tension building, when it comes to writing theoretically, as well as knowing the importance of structural flow of introduction, body of work and conclusions. While maintaining the fundamental approaches that are needed when the students shall enter their final thesis semester, including: quality of evidence attached to the student's argument: placing supporting material for and against the argument, and what are the claims for making one's overall argument important. This online course will give students the opportunity to openly express, discuss, and debate their interests and initial ideas attached to their upcoming thesis. In these series of lessons it will be within presentations and writing assignments, of which the focus becomes on supporting students to gain further confidence and insight when it comes to writing theoretically. And to gain a wider perspective when it comes to critically being able to place given contexts in a greater social, political, philosophical, artistic, etc.. field of significance. As such helping Master-students become highly prepared and focused when entering their final thesis semester.

All Master students interested in taking the course, please email Matthew Lloyd - bauhaus_ml@hotmail.com

Bemerkung

Einschreibung findet über das Bisonportal statt.

121223801 Design with Data: Introduction to visual programming with TouchDesigner

R. König, S. Kraus

Veranst. SWS: 4

Seminar

Mo, wöch., 13:30 - 16:45, Belvederer Allee 1a - Allg. Medienpool 003, online, 17.10.2022 - 30.01.2023

Beschreibung

In this seminar, media experience designer Stefan Kraus (MXZEHN) give students an insight into visual programming with the creative coding environment TouchDesigner (derivative.ca).

Data is not only an important inspiration for design but emerges as a building material in the creation of interactive media and spaces. Data allows us to analyse and understand the complexity of the natural and social world in an unprecedented manner, revealing previously hidden relationships between them. Meanwhile, creative coding tools have further developed and design-friendly metaphors like visual programming open up new playgrounds for artists and designers beyond pure code.

The visual programming environment TouchDesigner offers a relatively simple, visual approach to the creation of data driven animations and environments. In this course, students will explore openly available datasets, learning how to extract and visualise relevant information as interactive media applications. Emphasis will lie on the idea that data unveils itself through critical and artistic interpretation, an outcome that is not inevitable but formed through the creative design process.

TouchDesigner: <https://derivative.ca>

MXZEHN: <http://www.mxzehn.de>

The course is held mostly online and in the English language.

We will meet in person (if possible) at the beginning, the middle and the end of the semester.

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

J. Becker, R. König

Veranst. SWS: 2

Seminar

Fr, wöch., 09:15 - 10:45, Belvederer Allee 1a - Allg. Medienpool 003, 14.10.2022 - 03.02.2023

Beschreibung

In this module, urbanist and civil engineer Jakob Becker will give insights into urban planning based on the energy present in the environment using the visual programming interface Grasshopper for Rhino.

After giving an introduction to the sun's movement, solar urban planning principles and climatology, this seminar will teach how to use the visual programming environment Grasshopper for Rhino to find solutions to energy related problems in architecture. Students will learn to work with weather data and will be guided through different examples of energy simulations applied in urban contexts with the main focus lying on solar radiation simulation and adjacent fields, such as direct sun hours simulation, energy gains calculation and optimization as well as 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. No previous experience in working with Grasshopper is required.

Teaching language is English.

122112401 Parametric Architecture (Ba)

A. Abdulmawla, I. Osintseva, S. Schneider

Veranst. SWS: 2

Übung

Mi, wöch., 17:00 - 18:30, Belvederer Allee 1a - Allg. Medienpool 003, 12.10.2022 - 25.01.2023

Beschreibung

Parametric Modeling is a powerful tool in the architectural and urban design process. By creating models, that do not only represent the geometry but rather relationships between the geometrical elements it becomes possible to create numerous variations of a design concept. These design variants can be analysed and optimized for certain criteria. Thereby the designer gains a deeper insight into his/her design concept.

In this seminar you will learn the basics for parametric modeling using the visual programming software Grasshopper for Rhino. After this basic training you apply the methods to an own design concept (architectural or urban scale). For the course no prior knowledge is required.

Bemerkung

Ort: Computerpool EG, Belvederer Allee 1a

Beginn: 06.04.2020

Umfang: 3 ECTS

122122403 Parametric Architecture

A. Abdulmawla, I. Osintseva, S. Schneider

Veranst. SWS: 2

Seminar

Mi, wöch., 17:00 - 18:30, Belvederer Allee 1a - Allg. Medienpool 003, 12.10.2022 - 01.02.2023

Beschreibung

Parametric Modeling is a powerful tool in the architectural and urban design process. By creating models, that do not only represent the geometry but rather relationships between the geometrical elements it becomes possible to create numerous variations of a design concept. These design variants can be analysed and optimized for certain criteria. Thereby the designer gains a deeper insight into his/her design concept.

In this seminar you will learn the basics for parametric modeling using the visual programming software Grasshopper for Rhino. After this basic training you apply the methods to an own design concept (architectural or urban scale). For the course no prior knowledge is required.

Bemerkung

Ort: Computerpool EG, Belvederer Allee 1a

Beginn: 06.04.2020

Umfang: 3 ECTS

122213001 Buildings as Issues and stories: The work of South Asian architect Minette De Silva. (Ba)**D. Perera**

Veranst. SWS: 2

Seminar

Mo, wöch., 11:00 - 12:30, Geschwister-Scholl-Str.8A - Seminarraum 002, 17.10.2022 - 23.01.2023

Mo, Einzel, 11:00 - 12:30, Marienstraße 9 - Seminarraum 103, 30.01.2023 - 30.01.2023

Beschreibung

When a building is a negotiation of issues resulting from competing values belonging to multiple stakeholders and the story of a building is not one but multiple, how can we learn about such building histories? How may the possibilities of existing digital technologies be used within this endeavour? This semester we will look into the less known work of Sri Lankan architect Minette De Silva to collectively experiment with ways of learning global building histories through storytelling.

De Silva was the first South Asian female architect to become an associate of the RIBA and participate in the CIAM meetings. De Silva studied architecture in Bombay, briefly worked in India for German architect Otto Koenigsberger, completed her architectural studies at the Architectural Association (London), established her regional practice in Kandy (Sri Lanka) in 1947 and later taught in Hong Kong. Working globally, she engaged in a lifelong quest to negotiate the complex questions of 'difference' as it appears in post-colonial Sri Lankan architecture, riddled with contradictions related to the latent colonial mentality that valorized progressive modernity and the nation's desire to reclaim a pre-modern tradition. While her work occupies a place in the many narratives of post-colonialism, tropical modernism, and gender, what is most interesting about her practice, is her way of negotiating between different stories and value systems that were in friction. As we explore her buildings as multiple stories, we will immerse ourselves in the building histories, learn about complex forms of causal relations, and discover the role and importance of agency and choice.

By participating in this seminar, you will get an opportunity to:

- Gain a better idea of South Asian architect Minette De Silva, the history of post-colonialism in South Asia, and the entanglements of these stories in the European history of modernism.
- Become a part of the first project to translate some of De Silva's ideas to a German-speaking audience.

- Work as a team to develop a new learning prototype together and discuss your ideas with experts and peers from other contexts (Sri Lanka).
- Explore the relationship between buildings and stories and connect these reflections to questions of architectural practice

You can enrol in the seminar via Bison; if you have difficulties registering online or have questions about this seminar, contact dulmini.perera@uni-weimar.de

Course format and assignments:

The project will consist of seminar sessions to explore the theoretical framework and more hands-on activities to translate these ideas into a set of story-based interactive systems. The projects developed in the seminar will be graded by the end of the semester. The work will be exhibited in an online archive.

Readings:

A list of readings and other media sources will be available on Moodle

Leistungsnachweis

wird im Seminar erörtert

122220601 Green Dreams of Suburbia: Climate Change, Sustainability, the COVID-19 pandemic and Urban Form

B. Stratmann

Veranst. SWS: 2

Seminar

Mi, wöch., 13:30 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 19.10.2022 - 01.02.2023

Mi, wöch., 13:30 - 15:00, Coudraystraße 13 B - Hörsaal 3, 02.11.2022 - 01.02.2023

Beschreibung

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

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?

singemäßer deutscher Titel: Wohnen im Grünen: Klimawandel, Nachhaltigkeit, die COVID-19-Pandemie und städtische Siedlungsstruktur

Suburbanisierung ist zu einem globalen Trend in der Stadtentwicklung geworden. Angesichts des drohenden Klimawandels, zur Neige gehender Erdölreserven und gleichzeitig noch ansteigendem globalen Energieverbrauch stellt sich jedoch die Frage, ob suburbane Räume mit dem Ziel nachhaltiger Stadtentwicklung vereinbar sind. In dem Seminar wird der Diskussion um Nachhaltigkeit und Stadtstruktur nachgegangen, denn aktuell liegen neue Erkenntnisse zu dieser Thematik vor, die auch Architekten und Städtebauern neue Betätigungsfelder eröffnen. Die aktuelle Corona-Krise wie auch zukünftige Pandemie-Risiken werfen die Fragen auf, ob eine weitere Ballung von Bevölkerungen in ohnehin schon dichten Metropolen sinnvoll ist, ob Strategien der Nachverdichtung nicht (enge)

Grenzen zu setzen sind und ob dezentralere Siedlungsstrukturen und geringere urbane Dichte tatsächlich eine Schutzwirkung haben.

engl. Beschreibung

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Voraussetzungen

Good English language skills, both written and spoken. Gute englische Sprachkenntnisse in Wort und Schrift

<https://moodle.uni-weimar.de/course/view.php?id=36550>

Leistungsnachweis

Assessment is mainly based on a presentation with a written version submitted towards the end of the semester. Students who do not need a grade, may receive a pass if their performance is adequate. - Die Prüfung erfolgt in Form eines Referates mit schriftlicher Ausarbeitung, die gegen Ende des Semesters eingereicht wird. Bei Testat bleibt die angefertigte Arbeit unbenotet.

12223001 Buildings as Issues and stories: The work of South Asian architect Minette De Silva (Ma)

D. Perera

Seminar

Veranst. SWS: 2

Mo, wöch., 11:00 - 12:30, Geschwister-Scholl-Str.8A - Seminarraum 002, 17.10.2022 - 30.01.2023

Beschreibung

When a building is a negotiation of issues resulting from competing values belonging to multiple stakeholders and the story of a building is not one but multiple, how can we learn about such building histories? How may the possibilities of existing digital technologies be used within this endeavour? This semester we will look into the less known work of Sri Lankan architect Minette De Silva to collectively experiment with ways of learning global building histories through storytelling.

De Silva was the first South Asian female architect to become an associate of the RIBA and participate in the CIAM meetings. De Silva studied architecture in Bombay, briefly worked in India for German architect Otto Koenigsberger, completed her architectural studies at the Architectural Association (London), established her regional practice in Kandy (Sri Lanka) in 1947 and later taught in Hong Kong. Working globally, she engaged in a lifelong quest to negotiate the complex questions of 'difference' as it appears in post-colonial Sri Lankan architecture, riddled with contradictions related to the latent colonial mentality that valorized progressive modernity and the nation's desire to reclaim a pre-modern tradition. While her work occupies a place in the many

narratives of post-colonialism, tropical modernism, and gender, what is most interesting about her practice, is her way of negotiating between different stories and value systems that were in friction. As we explore her buildings as multiple stories, we will immerse ourselves in the building histories, learn about complex forms of causal relations, and discover the role and importance of agency and choice.

By participating in this seminar, you will get an opportunity to:

- Gain a better idea of South Asian architect Minette De Silva, the history of post-colonialism in South Asia, and the entanglements of these stories in the European history of modernism.
- Become a part of the first project to translate some of De Silva's ideas to a German-speaking audience.
- Work as a team to develop a new learning prototype together and discuss your ideas with experts and peers from other contexts (Sri Lanka).
- Explore the relationship between buildings and stories and connect these reflections to questions of architectural practice

You can enrol in the seminar via Bison; if you have difficulties registering online or have questions about this seminar, contact dulmini.perera@uni-weimar.de

Course format and assignments:

The project will consist of seminar sessions to explore the theoretical framework and more hands-on activities to translate these ideas into a set of story-based interactive systems. The projects developed in the seminar will be graded by the end of the semester.

Readings:

A list of readings and other media sources will be available on Moodle

Leistungsnachweis

wird im Seminar bekannt gegeben

12224102 the urban wild

D. Rummel, L. Geßner

Veranst. SWS: 2

Seminar

Mi, wöch., 18:30 - 20:00, Geschwister-Scholl-Str.8A - Seminarraum 002, 12.10.2022 - 01.02.2023

Mi, Einzel, 17:00 - 20:00, Geschwister-Scholl-Str.8A - Seminarraum 105, 25.01.2023 - 25.01.2023

Beschreibung

What is our current perspective on a permanently transforming city? Which aspects do we notice when looking around, what remains invisible to us? The chair of Stadt Raum Entwerfen (Urban and Regional Design) is interested in identifying the common and unusual potentials of urban settings, understanding the habits of users and the programs of the public realm as well as left over spaces and in working together with other disciplines on sustainable transformation processes.

This winter term we will look at the interdependencies of inner-city water, a city's economy, ecology and society. More and more we can watch rivers in cities transform from hardly accessible, highly efficient infrastructures (transportation, effluence, power) to integrated green blue infrastructures that support a city's ecology, leisure activities, public health issues and cultural offerings. Rivers are hotspots of contact and that makes them hotspots of control. The value of riverbanks needs to be discussed, but what would be the currency? Money, taxes, property value, health, inclusiveness or our ecological footprint ...?

In teams of two, students will analyze a cut out perimeter of the riverbanks in one of five German cities. Goal is to research and detect the multilayering of interests along these inner-city stretches and to find ways to document the various forms of appropriation as well as the spectrum of values (money, leisure, ecology, business, ...). We will not only look at the status quo, but we will look at how the role of the river and its banks for a city has changed over time, which will help to make proposals for its future. Thinking about the future of the urban, encountering urban transformation processes and finding innovative solutions for urban settings is a joint venture. This means: close

interdisciplinary collaboration, continuous exchange of knowledge and mutual understanding and inspiration. For these reasons (and because it's more fun!) this seminar will feature an active learning exchange with students of the Urban Greening Lab of New York University.

NYUrban Greening Lab How to "green" a city (as dense as NYC) has been the focus of the Greening Lab of New York University for many years. The NYUrban Greening Lab stands for the integration and interdisciplinarity in the study of urban environmental change: "Understanding biophysical and social change in the cities of the 21st century requires new tools, approaches, and intellectual infrastructure. In the NYUrban Greening Lab, we use urban ecology as a lens to explore the complex ways that environmental and social change intersect. Drawing from our different disciplinary perspectives, we integrate biophysical, social, and design studies in order to better understand the complex interplay of urban social and environmental systems. Our mission is to undertake, model, and promote multidisciplinary investigation, learning, and exchange – and in doing this, to more fully explore the Earth's possible urban futures." (<https://wp.nyu.edu/urbangreeninglab/>)

Bemerkung

The class will not be taught together with NYU, our goal is to establish contact and an exchange of knowledge base among students.

There will be one online meeting with NYU taking place on a Friday night (Dec. 9) between 8 and 10 pm Weimar time to meet NYU students in their time slot!

This is a 6 ECTS course. Please expect the workload to be accordingly.

Voraussetzungen

Abschluß - Bachelor Architektur oder

Abschluß - Bachelor Urbanistik

Students should be able to communicate in English with their NYU colleagues.