Vorlesungsverzeichnis

Integrated Urban Development and Design (PO 2018)

Sommer 2022

Stand 30.11.2022

Integrated Urban Development and Design (PO 2018)

3

Stand 30.11.2022 Seite 2 von 5

Integrated Urban Development and Design (PO 2018)

Seit Wintersemester 2018/19 besteht an der Bauhaus-Universität Weimar ein zusätzliches Angebot an fächerübergreifenden Lehrveranstaltungen im Rahmen der Bauhaus. Module. Ob diese Module des Wahlbereichs ersetzen können und in den Studienverlauf passen, muss individuell mit der Fachstudienberatung geklärt werden. Das Angebot der Bauhaus. Module findet sich unter www.uni-weimar. de/bauhausmodule.

119122403 Parametric Urban Design and Analysis II

A. Abdulmawla, E. Fuchkina, S. Schneider

Veranst. SWS:

2

Seminar

Di, wöch., 13:30 - 15:00, Belvederer Allee 1a - Allg. Medienpool 003, 05.04.2022 - 05.07.2022

Beschreibung

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.

The course extends the knowledge and methods you learned in PUDA I. You will learn and train advanced parametric modeling techniques and further analysis methods as well as basic knowledge about statistics to study relationships between urban form and its manifold functions.

You apply the learned skills in an urban planning project for new towns in Ethiopia (IUDD Study Project "Circular Urbanism"). It is expected that the participants have absolved the course "Parametric Urban Design and Analysis" from the previous semester.

Voraussetzungen

Studiengänge: Master Integrated Urban Development and Design (IUDD)

119123701 Introduction to Masters' Thesis

P. Schmidt, S. Schneider

Veranst. SWS:

2

Seminar

Mo, wöch., 11.04.2022 - 04.07.2022

Beschreibung

The preparatory seminar is a combination of various aspects that support students to prepare and organise their master's thesis. It aims to the individual thematic development of the thesis topic. Derived from the subject areas of IUDD the thesis refers to the inductive development of interdisciplinarity. Students are guided through the logic of research, the definition of individual research interest and the more objective need to communicate specific knowledge related to a certain subject of interest. At the end of the seminar, a thesis proposal should be developed based on an adequate research framework and research design, considering methodological aspects and quality of research. This seminar is arranged as intensive workshop with lectures, discussions, exercises and group work.

121123701 GIS for Integrated Urban Development Part II

M. Abdelaziz Ibrahim Mousa

Veranst. SWS:

2

Seminar

Mo, wöch., 13:30 - 15:00, Bauhausstraße 9c - Arbeitsraum 004, 11.04.2022 - 04.07.2022

Stand 30.11.2022 Seite 3 von 5

Beschreibung

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, proprieties 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.

Basic knowledge of ArcGIS is required for the course such as create, edit and deal with Geodatabases, feature dataset, feature classes, data selection and visualization.

The course will be assessed based on assignment and final project where participants create their own models and present it. This will be based on an excursion to Chemnitz in the second half of the semester where participants will apply their mapping capacities in GIS in the context of a pedestrian analysis.

122122401 Integrated Urbanism - Adaptive Planning Strategies for Rural-Urban Transformation in Ethiopia.

Veranst. SWS:

10

S. Schneider, R. König, P. Schmidt, M. Bielik

Projektmodul

Do, wöch., 09:15 - 18:30, Bauhausstraße 9c - Arbeitsraum 004, 07.04.2022 - 07.07.2022

Di, Einzel, 09:00 - 14:00, Bauhausstraße 9c - Arbeitsraum 004, Abschlussrundgang, 12.07.2022 - 12.07.2022

Beschreibung

The transformation from a mainly agricultural society to industrialisation that is faced these days in Ethiopia is linked to substantial changes of the country's rural and urban areas. With these shifts, the processes of urbanisation and expectations towards modernisation is seen as a chance to create new and adaptive urban planning proposals that meet specific needs and conditions of the Ethiopian development context in Sub-Saharan Africa. While the World Bank is promoting rapid economic growth for Ethiopia, still the country is one of the poorest countries in the world, and the question arises in how far urban design and planning can create concepts and flexible urban models that are reactive enough to stimulate different scenarios responding for balanced development.

One of the main frameworks to create such a balance for emerging cities are the United Nations Sustainable Development Goals (SDG). Different key factors like food security, energy, water and sanitation are linked to resource questions of material and land and how those can be influential on the development of prospective cities. Thus, for the development of new towns in rapidly urbanizing regions the understanding of material flows and circulation within the urban system is crucial when it comes about any building activity that determines the urban form and what we finally experience as urban, including open and public space and healthy living conditions.

To better understand how such flows of material resources and energy are linked to building activities in rural urbanisation processes and their impact on the existing environment, in our study project, we are referring to urban metabolism as a framework for urban design and planning of small cities.

Participants will be analysing urban patterns and flows of small cities, learn about the context between urban metabolism and its spatial implications and apply tools and methods for a spatial analysis and finally implement that knowledge in spatial models and concepts to simulate possible development scenarios.

Voraussetzungen

Studiengänge: Master Integrated Urban Development and Design (IUDD)

Stand 30.11.2022 Seite 4 von 5

Master-Colloquium

P. Schmidt

Kolloquium wöch.

Beschreibung

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.

engl. Beschreibung

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.

Bemerkung

Time:Block course, see notice-board

Location:Belvederer Allee 5 Start: See notice-board

Registration: Not necessary, all students accepted for the Master examination have to participate

Voraussetzungen

Admission for the Master examination is required for participation.

Leistungsnachweis

Performance record (attestation) will be achieved by giving an oral presentation.

Modellprojekteforum IUDD

P. Schmidt Veranst. SWS: 2

Seminar

Do, Einzel, 14:00 - 20:00, Geschwister-Scholl-Str.8A - Besprechungsraum 102, 05.05.2022 - 05.05.2022 Block, 08:00 - 22:00, Geschwister-Scholl-Str.8A - Oberlichtsaal 213, 05.05.2022 - 06.05.2022 Fr, Einzel, 08:00 - 20:00, Geschwister-Scholl-Str.8A - Besprechungsraum 102, 06.05.2022 - 06.05.2022

Stand 30.11.2022 Seite 5 von 5