

Modeling of Integrated Land-use and Transport Systems (ILUT-M)

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2 SWS, 3 ECTS

SS 2024

Wednesdays, 10:30 – 13:00

Room 2601

Wednesday, 17.04.2024

Introduction, Course Overview, and GIS Basics

Explanation of course, topics, expected outputs, general concepts, and schedule. Lecture on integrating land-use and transportation as well as accessibility. We will also start learning some GIS basics.

Wednesday, 24.04.2024

Accessibility with Active Modes - Variables and Methods

Lecture on topics relating to walkability. Tutorial on network analysis and data collection.

Wednesday, 01.05.2024

No Class

Tag der Arbeit

Wednesday, 08.05.2024

Transit Modeling I

Lecture on challenges of modeling accessibility by transit (frequency, temporal variation). Tutorial on using/understanding GTFS data.

Wednesday, 15.05.2024

No Class

Wednesday, 22.05.2024

Transit Modeling II

Tutorial using the R5R tool to route and model transit accessibility.

Wednesday, 29.05.2024

Integrating Land-Use and Transportation I

Lecture on concepts behind land-use/transportation integration. Tutorial on data collection for accessibility modeling with focus on population and land-use data.

- Wednesday, 05.06.2024 **Integrating Land-Use and Transportation II**
Tutorial on measuring different data sets within geographic areas and combining different types of transportation/land-use data/measurements into a single accessibility measure. Tutorial on visualizing and interpreting results.
- Wednesday, 12.06.2024 **No Class**
TUM Sustainability Day
- Wednesday, 19.06.2024 **Free Working Session I**
Work on your own projects. Supervisors available for technical assistance.
- Wednesday, 26.06.2024 **Demonstration of Accessibility Tool**
Presentation about tool and development process.
- Wednesday, 03.07.2024 **Free Working Session II**
Work on your own projects. Supervisors available for technical assistance.
- Wednesday, 10.07.2024 **Student Presentations I**
Batch 1 of student presentations.
- Wednesday, 17.07.2024 **Student Presentations II**
Batch 2 of student presentations.

Contact:

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