



New Lecture Exercise: Urban Living Labs

Fundamentals and implemented Projects

Transformation of cities in the light of Climate Change and the COP 21 Agreement: theoretical and experimental concepts for Urban Living Labs

Lecturers: DIⁱⁿ Dr.ⁱⁿ Amela Ajanovic, Ao.Univ.Prof.DI Dr. Reinhard Haas, and Ass. Prof. DIⁱⁿDr.ⁱⁿ Karin Stieldorf (all TU Wien),
Mag.^a DI Dr.ⁱⁿ Brigitte Bach, MSc., DIⁱⁿ Dr.ⁱⁿ Tanja Tötzer, DI Hans-Martin Neumann and Jun.-Prof. Dr.-Ing.Reinhard König (all AIT), DI Thomas Madreiter (Stadt Wien), DI Dr. Andreas Schuster (ASCR)

LV-Number: 280.469

Appraisal: 4 ECTS, 20 LE, 4 afternoons with 4 LE (Tuesday), 2 afternoons with student's oral presentations, November 2016 – January 2017

Language: English

Place: Room W1 – Augasse 2-6, Spange A, 2nd floor

Content: Starting with trends and driving forces regarding mobility, energy consumption and GHG emissions, students will learn about the principle of Living Labs and the necessary trans- and interdisciplinary research- and implementation approaches on the way to a climate-resilient, sustainable city. Different scientific approaches are discussed and Living Labs are presented in their numerous application fields, starting from Open-Innovation and User Innovation concepts, to Transformation- and Transition-research and Resilience- and Sustainability concepts. In the practical part, students will investigate best practice examples, which will be compiled in groups and jointly evaluated. A technical tour will complete the programme.

Unit 1, November 22nd, 2 to 5 p.m., 2016 (2 VO, 2 UE): Introduction, Motivation and Background, Project examples (Smarter Together), Distribution of Exercises (Brigitte Bach, Tanja Tötzer, Guest Lecture: Hans-Martin Neumann)

Unit 2, December 6th, 2 to 5 p.m., 2016 (3 VO, 1 UE): Built Environment and Society of a CO₂-free resilient city – Ways towards decarbonisation (Karin Stieldorf)

Unit 3, December 13th, 2 to 5 p.m., 2016 (3 VO, 1 UE): Energy and Mobility, Transition paths to a CO₂-free, resilient city – Ways towards decarbonisation of the energy and transport system (Amela Ajanovic, Reinhard Haas.)

Unit 4, January 10th, 2 to 5 p.m., 2017, Excursion Aspern, Seestadt Wien (2 VO, 2 UE): Living Lab in Vienna, approaches, research questions, first findings, citizen participation (Thomas Madreiter, Guest Lecture: Andreas Schuster, Reinhard König)

Exam, January 17th, 2 to 5 p.m., 2017 (4 UE): Student's oral presentations (in groups) (Brigitte Bach, Karin Stieldorf, Tanja Tötzer)

Exam, January 24th, 2 to 5 p.m., 2017 (4 UE): Student's oral presentations (in groups) (Brigitte Bach, Amela Ajanovic, Tanja Tötzer, Reinhard Haas)

Contact:

Dr. Brigitte Bach, Head of Energy Department, AIT Austrian Institute of Technology,
brigitte.bach@ait.ac.at, +43 50550 6612

