

# Information Architecture & Future Cities: Smart Cities



Mondays 13:00 - 14:00  
051-0723-16V | 2 ECTS\*

## Information Architecture & Future Cities: Smart Cities

What will happen when cities change from static configurations into responsive and dynamic structures? What does it mean for buildings that undergo the same changes? What is the impact on architectural and urban design education? How can citizens influence this development? The SMART CITIES course will answer these questions and supply you with the necessary skills and knowledge to understand and design such dynamic structures. The intelligent use of data and information are at the core of this course. Data and information are new building materials of future cities. Citizens produce increasing amounts of data in their daily life, with stationary sensors and mobile smartphones. Using those data, citizens begin to influence the design of future cities and the re-design of existing ones. The course will be a first step towards the emerging citizen design science and cognitive design computing. Those will be the next generation of participatory design and design computing. The course will run parallel to the edX MOOC on Smart Cities.

Link: <https://www.edx.org/course/smart-cities-ethx-ethx-fc-03x>

### Where

HIT H 31.4 (Video wall)

### Supervision

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[www.ia.arch.ethz.ch](http://www.ia.arch.ethz.ch)

- 26.09.2016 Introduction to the course
- 03.10.2016 Smart cities
- 10.10.2016 Big data and stocks and flows of information
- 17.10.2016 Measurements and simulations in the city I
- 24.10.2016 Seminar Week
- 31.10.2016 Citizen-design science
- 07.11.2016 Smart Governance
- 14.11.2016 Complexity science
- 21.11.2016 Smart Livability
- 28.11.2016 Smart security
- 05.12.2016 Smart mobility
- 12.12.2016 From smart cities to responsive cities
- 19.12.2016 Final presentation

\*Total 120 h = 4 ECTS  
6 Exercises 25% (documentations)  
Presentation 25% (project at the end)  
Written documentation 50%

The most recent outline will be found on [www.ia.arch.ethz.ch](http://www.ia.arch.ethz.ch)