

## COURSE SYLLABUS

### Policies for Smart Cities

2425-2-FDS01Q038-FDS01Q039M

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#### Aims

To acquire knowledge of the typical problems of highly urbanized environments and of the methodologies that can be used to formalize these problems.

#### Contents

- The dimensions that characterize the smart city.
- The actors who are creating and implementing the smart city
- The governance of the smart city
- Who benefits and who is excluded?
- The role of data analysts in this area

#### Detailed program

##### **Street level bureaucrats and data analysts in the smart city**

Who are the actors making the smart city? The street level bureaucracy and the role of data analysts

##### **Smart city and platform city**

What differences between the smart city and the platform city? Actors, indicators, policies, and what outcomes. Who are the excluded ones?

##### **Smart city and urban governance**

Modes of regulation (market exchange, redistribution, reciprocity), participation and smart city. Taking into account citizens' activation and social capital.

### **The smart 15 minutes city**

What is the 15 minutes city? What's for? How the smart can support the 15 city and with what benefits, for whom? To do what? What services do we need to reach in 15 minutes? Are smart cities more unequal/equal than other in terms of income?

### **How to construct a good case-study**

Working with data, the effect of short-term tourism and Airbnb in touristic places.

### **Working with data: Smart city and inequalities**

Conclusion of the module

## **Prerequisites**

None

## **Teaching form**

23 hours conducted in in-person delivery mode

## **Textbook and teaching resource**

Slides and notes provided by lecturers

## **Semester**

Second semester

## **Assessment method**

The course will be evaluated through an essay and an oral presentation on a self-selected smart city topic. Students, in groups of two, will write an essay in English (or Italian), covering problem description, data analytics, visualization, and policy recommendations. The essay should address relevant indicators, data selection, cleaning, spatial and temporal analysis, and prediction or classification models if needed. Ethical and social implications should also be considered. An oral presentation of the essay is required. Evaluation criteria include clarity and coherence of problem description, quality and relevance of data, accuracy and validity of analysis and visualization, robustness and reliability of models, effectiveness of policy suggestions, consideration of ethical and social implications, overall essay quality, quality of the in-person presentation.

## **Office hours**

Received by appointment to be arranged by e-mail

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## **Sustainable Development Goals**

GENDER EQUALITY | INDUSTRY, INNOVATION AND INFRASTRUCTURE | REDUCED INEQUALITIES |  
SUSTAINABLE CITIES AND COMMUNITIES

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