



# Executive Master Resilient and Carbon-Neutral Cities





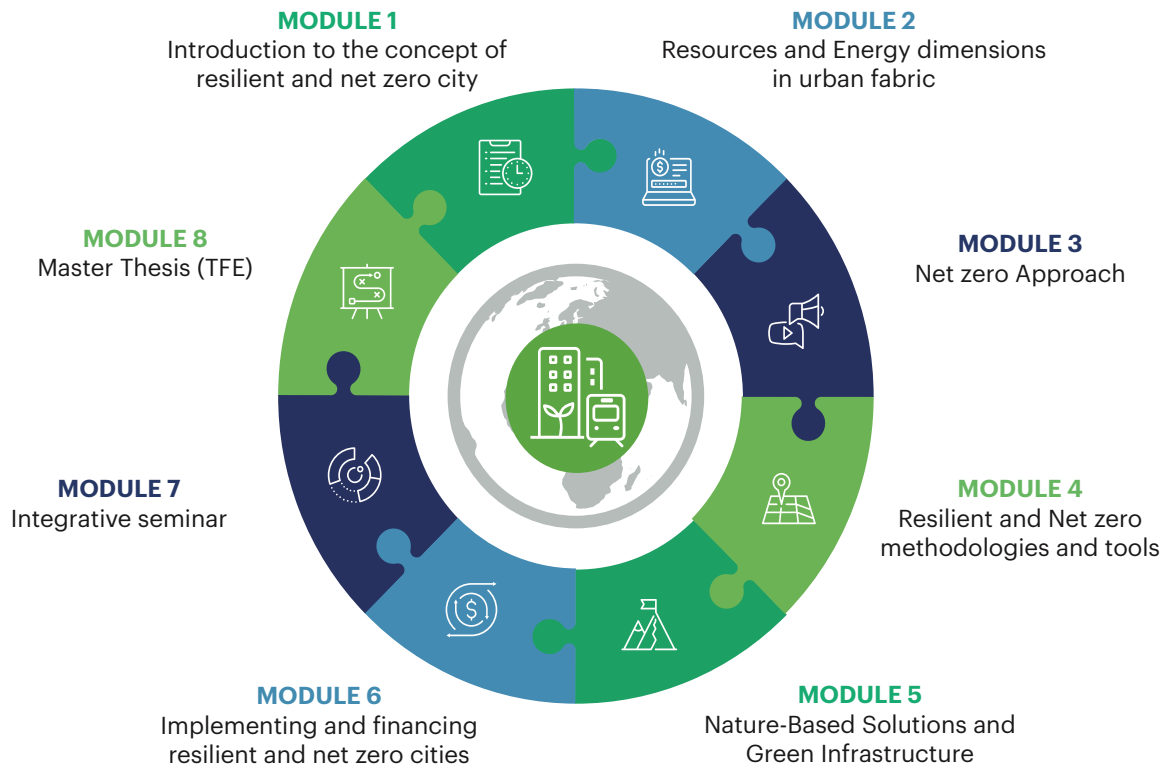
## Programme Description and Features

**The executive master is the opportunity to better understand the challenge for cities and metropolises face to global climate change. A great amount of cities have to rethink their energy resources consumption, as well as their food and material resources management. There is also the need to think and start the urban mutations from topics connected to the environment: not only planning our urban forms, but also to unleash evolution potentials, tangibles or not.**

By 2050, nearly 70% of the world's population will live in cities, according to the United Nations. Today, large metropolises are already responsible for 70% of CO<sub>2</sub> emissions. The sustainable development of the cities of tomorrow is therefore at the heart of the carbon-neutral transition. European Commission's Green Deal can only be achieved with carbon-neutral transformation and resilience of our cities.

With four imperatives: resource frugality, climate resilience, carbon neutrality and collective intelligence. What thoughts should we have for resilient and carbon-neutral Cities? What are the major issues, the priorities and the impacts to be taken?

For these reasons and for the first time, the Faculty of Architecture at ULB & ENGIE unite forces in the co-construction of this Executive Master. The format led by international speakers and high-level experts at the heart of this key theme to respond best to the conceptualized modules.



## Courses Structure

Module 1	Introduction to the concept of circular and resilient city
Module 2	Resources and Energy dimensions in urban fabric
Module 3	Carbon-Neutral Approach and Strategies
Module 4	Carbon-neutral methodologies and tools
Module 5	Nature-Based Solutions and Green Infrastructure
Module 6	Implementation and financing the carbon-neutral city
Module 7	Integrative seminar
Module 8	Master Thesis (TFF)

## Why to join this program

The executive master allows for each student to learn about:

- Introduction to the concept of circular and resilient city
- Resources and Energy dimensions in urban fabric
- Carbon-Neutral Approach and Strategies
- Carbon-neutral methodologies and tools
- Nature-Based Solutions and Green Infrastructure
- Implementation and financing the carbon-neutral city

It is also a great opportunity to develop new skills for professionals. In fact some decades ago, the global climate change wasn't a central topic. A lot of new items were appeared and need a new understanding. That is possible through our program of executive master. It is therefore aimed at a diverse population, students, professionals in the private sector or in public administration. This diversity reinforces the interest of this master's programme with rich exchanges on the visions and problems of each.





## Executive Master Structure

### Practical information

Credits: 30

Contact hours: 60

### Fees

- Course fee: 2295 euros
- Reduced fee for Faculty and Alumni of the Faculty of Architecture La Cambre Horta: 1795 euros
- Full fee waivers are available for students who commit to undertake a 6-month traineeship at Engie during/following the course.

A cover letter will be required in the application.

### Prerequisites

Admissions are based on applications. Candidates must provide a certificate of completion of a first cycle higher education diploma or proceed to a VAE (validation of acquired experience).

### Languages

English

### Location

Online, Paris, Brussels

### Schedule

Courses are organised on Tuesdays starting 15. January 2024 (4.00 - 7.00 PM CET).

### Contact & Information

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