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# Máster CitiesMD

Joint European Master Degree in Efficient and Sustainable Energy Transport and Mobility to Build the Smart Cities of the Future

Máster Universitario en Energía, Transporte y Movilidad Eficientes y Sostenibles para Construir las Ciudades Inteligentes del futuro



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## NAME OF THE PROGRAMME:

Joint European Master Degree in Efficient and Sustainable Energy Transport and Mobility to Build the Smart Cities of the Future – UlysseusCitiesMD

## COORDINATING INSTITUTION:

University of Seville (Spain)

Joint Master Degree awarded by the University of Seville, USE (Spain), Université Côte d'Azur, UniCa (France) and MCI The Entrepreneurial School ® (Austria) in collaboration with the University of Genoa, UniGe (Italy), the Technical University of Košice, TUKE (Slovakia) and Haaga-Helia, University of Applied Sciences, HH (Finland), as Ulysseus European University.



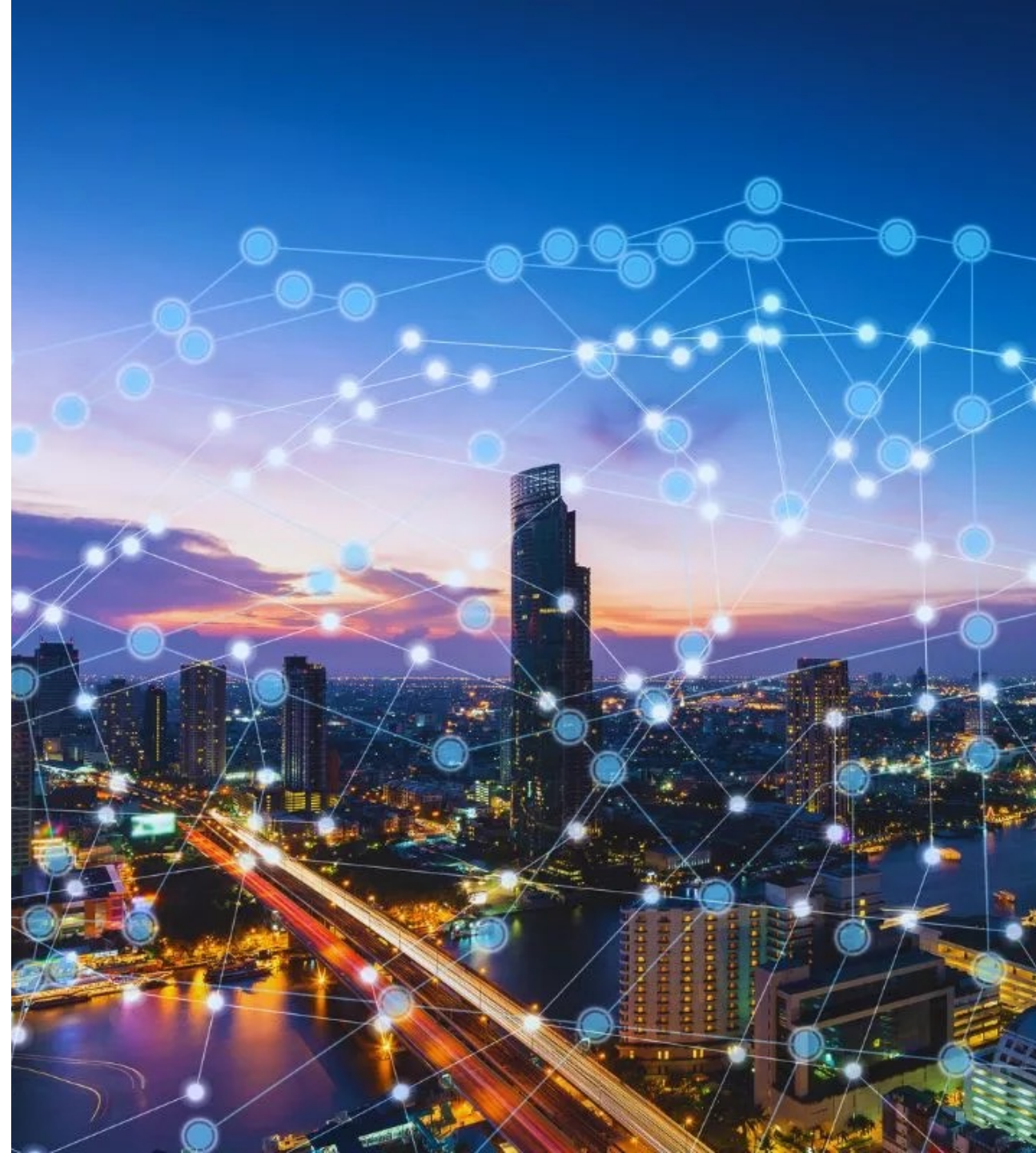
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# ABOUT CITIESMD

- Ulysseus CitiesMD is a **2-years** Joint European Masters Degree programme in Efficient and Sustainable Energy Transport and Mobility to Build the Smart Cities of the Future offered by Ulysseus European University.
- Ulysseus CitiesMD is **taught** in **English**.
- It aims at **offering a joint and fully transnational challenge-based programme that bridges the areas of Energy, Transport, Mobility and Smart Cities in an interdisciplinary way**, to address the key challenges in energy transition and decarbonized systems, key priorities in European politics and interest. This topic selection builds on the experience of the partner universities in delivering programmes.



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## ABOUT CITIESMD

- Ulysseus CitiesMD **is starting next academic year 2024-2025** and will have **50 spots** available for students.
- Coordinated by the University of Seville (Spain), this programme has a total of **120 ECTS** which will be completed during the course of 2 years.
- It is divided into 4 semesters (30 ECTS each), with three main parts: the “Core”, the “Flexible Semester, and the “Getting into the sector Semester”.
- From a structural point of view, Ulysseus CitiesMD offers flexible and modular pathways, with embedded mobility (physical, virtual or blended) and traineeships, which will be tailored to the students’ preferences for research, innovation or professional activity.



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# ABOUT CITIESMD

## The Study Programme

To achieve the learning outcomes, Ulysseus CitiesMD consist of **120 ECTS** divided into **2 years**:

- **A first year**, with a both interdisciplinary and technically focused core programme that provides students with a foundation on specific technical and technological aspects.
- **A second year with a very flexible design.** The offer will provide transversal aspects, including an intensive course on entrepreneurship, and courses which complement the technical curriculum, equipping students with avant-garde knowledge and skills related to the smart cities of the future. Students will be able to follow courses on transversal competences and a wide range of Ulysseus educational activities. The programme also includes the opportunity to do a traineeship in a company or a research group in order to enforce the research profile of the student, who can go deeper in this field of expertise to face doctoral studies, and the completion of a master thesis.



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# ABOUT CITIESMD

## The Study Programme

S1

### Green Module 1 (3 ECTS); Compulsory

- Students: on-site at USE
- Teaching: on-site (USE), or online (all partner universities)

### Smart Grid Module (27 ECTS); Compulsory

- Students: on-site at USE
- Teaching: on-site (USE) with participation of UniCA, MCI and TUKE (on-site/online)

S2

### Green Module 2 (3 ECTS); Compulsory

- Students: on-site at USE or TUKE (on a mobility basis)
- Teaching: on-site (USE, TUKE) or online (all partner universities)

### Optimization & Digitalization Module (15 ECTS); Compulsory

- Students: on-site at USE or TUKE (on a mobility basis)
- Teaching: on-site (USE, TUKE) with participation of UniCA (on-site/online)

### Mobility and Transport Module (12 ECTS); Elective

- Students: on site at USE or TUKE (on a mobility basis)
- Teaching: on-site (USE, TUKE) with participation of UniCA (on-site/online)

### Energy efficiency and smart buildings Module (12 ECTS); Elective

- Students: on site at USE or TUKE (on a mobility basis)
- Teaching: on-site (USE, TUKE) with participation of UniCA (on-site/online)

S3

### Green Module 3 (3 ECTS); Compulsory

- Students: on-site at UniCA, MCI /UniGe, HH (on a mobility basis)
- Teaching: on-site (see above) or online (all partner universities)

### Specialization Module (27 ECTS); Elective

- Students: on site at UniCA, MCI / UniGe, HH (on a mobility basis)
- Teaching: on-site (see above) or on line (all partner universities)

### Transversal skills Module (27 ECTS); Elective

- Students: on-site at UniCA, MCI / UniGe, HH (on a mobility basis)
- Teaching: on-site (see above) or on line (all partner universities)

S4

### Traineeships Module (15 ECTS); Compulsory

- Students: on-site at USE, UniCA, MCI / TUKE, UniGe, HH (on a mobility basis)
- Teaching: on-site (see above)

### Master Thesis (15 ECTS); Compulsory

- Students: on-site at USE, UniCA, MCI/ TUKE, UniGe, HH (on a mobility basis)
- Teaching: on-site (see above) and online (all partner universities)



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# ABOUT CITIESMD

## The Study Programme

### SEMESTER 1



During the first programme year, students will enroll at University of Seville (Spain). They will spend Semester 1 at ETSI (Escuela Técnica Superior de Ingeniería), Camino de los Descubrimientos, 41092, Seville (Spain).

Students can spend Semester 2 at the University of Seville (Spain) or at Technical University of Košice (Slovakia) on a mobility basis, allowing them to complete the first year in two different universities.

### SEMESTER 2



### SEMESTER 3



For Semester 3, students will be able to choose to go either to Université Côte d'Azur (France), MCI | The Entrepreneurial School® (Austria), University of Genoa (Italy) or Haaga-Helia University of Applied Sciences (Finland), depending on the elective courses that they select.

For Semester 4, students can choose either to go to any of the six partner universities for their Traineeship and Master Thesis modules. At University of Seville (Spain), Université Côte d'Azur (France) and MCI | The Entrepreneurial School® (Austria),

### SEMESTER 4



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# ABOUT CITIESMD

## Employment opportunities

The new city concept and its smart management will need new professional profiles highly qualified in technical terms and with a strong transversal component, bridging with areas that are directly related to such technical capabilities but also other knowledge areas that enrich the professional and make them able to make more comprehensive decisions in relation to the smart cities of the future.

Through the “Career Guidance Programme”, Ulysseus CitiesMD helps students to identify multiple career pathways, aligning learning outcomes to industry, business, academia and civil society stakeholder needs, and fostering of a broad industry- and research-ready skillset.



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# ABOUT CITIESMD

## Employment opportunities

Graduates will have many potential pathways of employment, among others:

- Project manager for interdisciplinary Smart City projects
- Advisor for Energy Policy and Market regulations, Standards and Grid codes, with a social and urban perspective
- Engineer specialized in field related with smart cities, as: Smart Grids, Power Electronics devices, and Efficiency Energy; Optimization and Digitalization of Smart Cities; Mobility and Transport issues in Smart Cities;
- Professional career in the field of research and innovation. In addition, graduates will be able to continue their professional career in the field of research and innovation, as Ulysseus CitiesMD will be followed up by UlysseusCitiesPhD, a Joint European PhD Programme that will pursue research and innovation in the context of the smart cities of the future.



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## ABOUT CITIESMD

### General requirements to apply

- To have a university qualification corresponding to a bachelor's degree (EQF level 6) in one of the relevant smart-city-related fields.
- Minimum English level B2, according to the CEFR (Common European Framework of Reference for Languages).



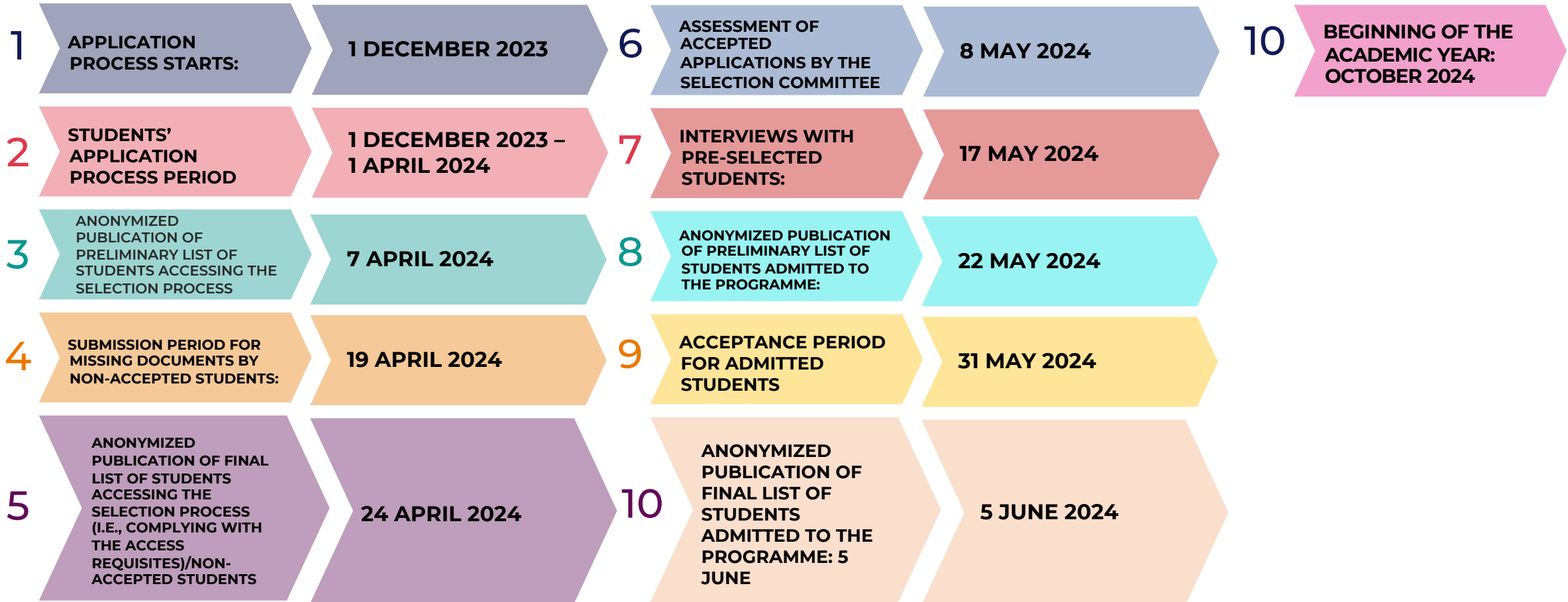
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# ABOUT CITIESMD

## Call for Applications Calendar



The following roadmap is to be publicly available to guarantee the transparency of the access and admission processes:



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## Participation costs

**3000 €/ year** for Programme Countries Students: EU Member States and third countries associated (North Macedonia, Serbia, Iceland, Liechtenstein, Norway and Türkiye)

**7500 €/ year** for Partner Countries Students. More information on [ulysseuss.eu](http://ulysseuss.eu)

## Degree awarded

At the completion of the study programme, the student will receive a physical fully accredited\* joint degree diploma in Master studies by University of Seville (Spain), MCI | The Entrepreneurial School ® (Austria) and Université Côte d'Azur (France), with full legal value in all EU countries, and its joint diploma supplement, including all the information regarding the programme, the courses that have been completed and the different grading systems.

# ABOUT CITIESMD



Would you like to learn more about Ulysseus CitiesMD?

Full details on this programme available on our [CitiesMD website](#)



## ABOUT ULYSSEUS

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Ulysseus Alliance vision for 2030 is to develop an excellency-recognized and internationally attractive open to the world, persons-centred and entrepreneurial European University for the citizens of the future. By doing so, our ambition is to contribute to shape the European Higher Education and Research Areas, and hence the future of Europe.

Ulysseus is one of the 50 European Universities selected by the European Commission to become the universities of the future. Led by the University of Seville, Spain, together with seven other universities in Europe (the University of Genoa, Italy; Université Côte d'Azur, France; the Technical University of Košice, Slovakia; MCI | The Entrepreneurial School®, Austria; Haaga-Helia University of Applied Sciences, Finland; the University of Münster, Germany; and the University of Montenegro, Montenegro), the project will allow students, researchers and graduates to move freely between universities, carry out internships in companies and start high-impact research projects.





# ABOUT ULYSSEUS

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