



Universidad
del País Vasco
Euskal Herriko
Unibertsitatea



With the support of the
Erasmus+ Programme
of the European Union

Erasmus Mundus Master

MASTER IN SMART CITIES AND COMMUNITIES (SMACCS)

Heriot-Watt University / University of the Basque Country /
International Hellenic University / Université de Mons

www.ehu.eus

INTRODUCTION & OBJECTIVES

The programme is designed to educate the next generation of engineers and researchers in Smart Cities and Communities by learning best practice from 4 of Europe's most prestigious universities and by fostering collaboration with industry through research.

The SMACCs is aligned with the smart city concept and envisaged ecosystems by providing an international, interdisciplinary programme of study, whose graduates will have attained both core and specialized knowledge in the diverse area of smart cities and communities, allowing them to succeed in a highly demanding labour market.

The SMACCs offers different specializations:

- Smart Grids and Demand Management (HWU, U.K.).
- Sustainable Urban Planning, Energy and Transport. (UMONS, Belgium).
- Information and Communication Technologies (IHU, Greece).
- Energy Efficiency on Buildings (UPV/EHU, Spain).

ENTRY PROFILE

Candidates need to have at minimum a Bachelor degree in engineering (mechanical, chemical, electrical, civil, environmental, architectural, etc.) or in sciences (physics, chemistry, mathematics, computer science, operation) or in economics but with an engineering background. A case-by-case study will be employed for other degrees (i.e., architecture, law, business, social, etc.), with an equivalent academic degree of minimum three years of undergraduate study corresponding to 180 ECTS.

CAREER OPPORTUNITIES

After completing the programme, our graduates will be able to managing project teams in urban development and engage in the management of development projects in municipalities and public administration. They will be able to design energy-conversion systems in a smart-city and community context and work in companies and institutions with a vision on the development of smart cities and communities of the future, as, for instance, Project Manager for Smart Communities or Professional Consultants in public administration or in industry, technology and research centers.

ABOUT THE COURSE

Teaching place:

The general mobility arrangement within the academic programme is as follows:

- SMACCs students start to earn their first 30 ECTS credits during their first academic year at HWU (U.K.) or UPV/EHU (Spain).
- SMACCs students continue to earn their next 30 ECTS credits during their first academic year at UMONS (Belgium) or IHU (Greece).
- During their 3rd semester, SMACCs students will study at HWU or UPV/EHU.

Teaching type:

On-site.

Teaching language:

English.

Approximate fees:

- For MSc scholarship students, all tuition and administration fees will be covered by the scholarship.
- All MSc non-scholarship students pay an annual fee (Category A (E.U.) students 4,000€/year or 8,000€/2-years and Category B (Non-E.U.) students 8,000€/year or 16,000€/2-years)

Calendar: the SMACCs academic year typically starts on September 1 and ends on August 31 of the following year, taking into account the academic calendar of the individual partner Universities.

TEACHING LOAD

Compulsory subject courses 46 Credits ECTS	Elective courses 44 Credits ECTS	Master Thesis 30 Credits ECTS	Total 120 Credits ECTS
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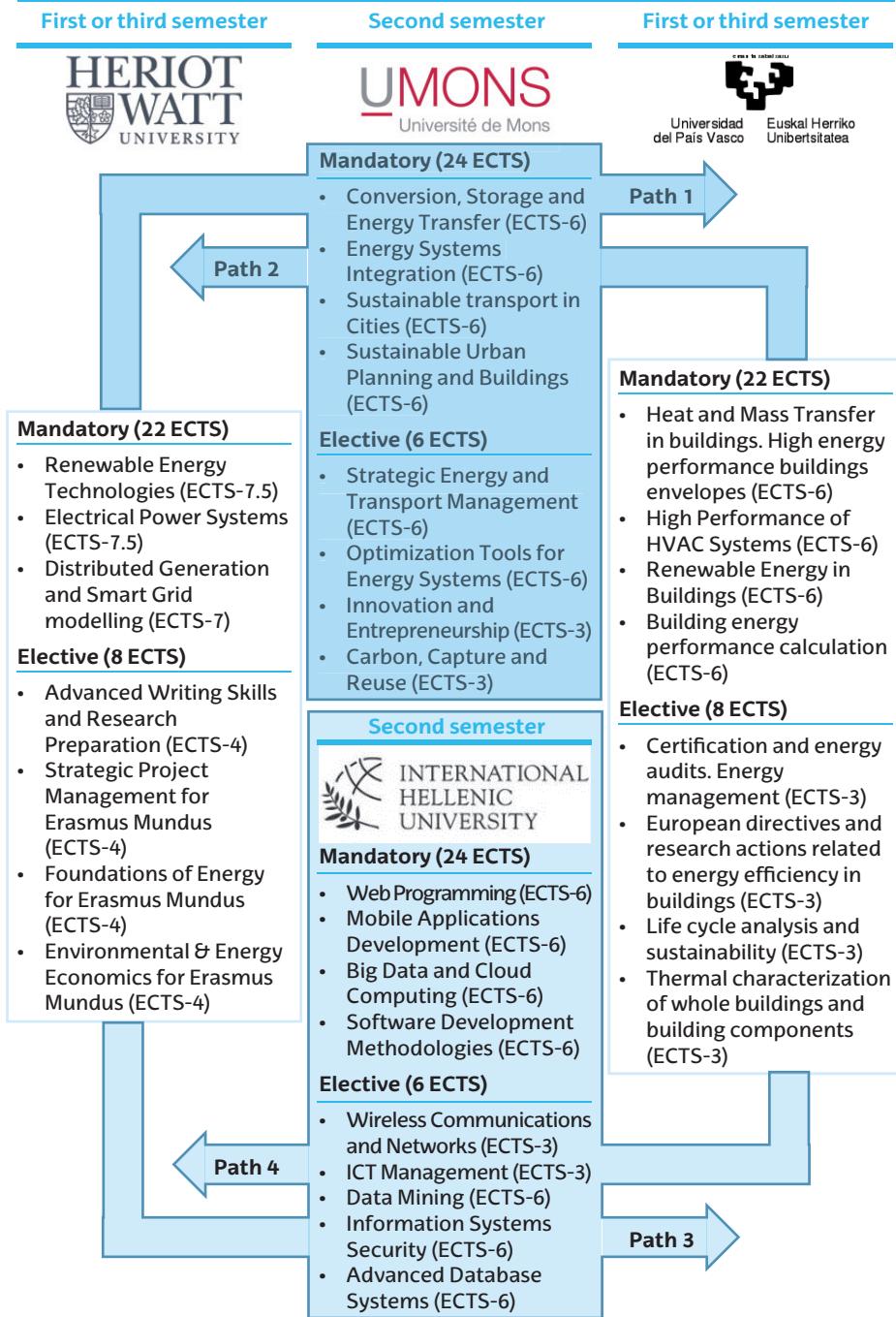
TRAINING SYLLABUS

The SMACCs Master Programme is spread over 4 academic semesters, for a total of 120 ECTS. Students are distributed across multiple Full or Associated Partners according to their chosen study path. Regardless of the path chosen, students will take courses by the respective partners in the first 3 semesters while the last semester will be dedicated to the Master thesis. The common language of instruction of the programme for the partner institutions is English.

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- Sustainable Urban Planning, Energy and Transport (UMONS, Belgium)
- Information and Communication Technologies (IHU, Greece)
- Energy Efficiency on Buildings (UPV/EHU, Spain)

MOBILITY PATHS REGARDING THE FIRST THREE SEMESTERS*



CONTACT

Academic information:

Academic Manager: Iñaki Gómez
Phone: +34 94 601 7432
Email: ignaciosantiago.gomez@ehu.eus

PARTNERS WITH A COOPERATION AGREEMENT



Curtin
University of Technology

U.PORTO
UNIVERSIDADE
DO PORTO



Université de Valenciennes
et du Hainaut-Cambrésis



unesp
UNIVERSIDADE ESTADUAL PAULISTA
SALVADORIANA PLANEJADA

South Valley University
Founded in 1995

tecnalia
Especialización Tecnológica

inegi
driving science & innovation

innovation ZONE S.A.

ORES
OPORTUNIDAD DE RESEÑAS DAE & ELECTRÓTICOS



Hellenic Institute
of Transport (H.I.T.)

HELENIC
PETROLEUM

ERAIKUNE
construction cluster



visesa



Siber
Ventilación Intelectual



ΣΕΠΙΒΕ



Veitch Cooper Limited

iPower

Cluster CAP2020
Construcción sostenible



<https://www.ehu.eus/master/master-smart-cities-communities>



<http://www.smaccs.eu/>

