

Erasmus Mundus Joint European Master in Environmental Studies (JEMES) Cities & Sustainability

Introduction

The Erasmus Mundus Joint European Master in Environmental Studies - Cities & Sustainability (JEMES CiSu) is a unique 2-year programme offered jointly by the Institute of Environmental Technology and Energy Economics and Institute of Wastewater Management and Water Protection (Technische Universität Hamburg-Harburg, TUHH); the Department of Development & Planning (Aalborg University, AAU); the Institut de Ciència i Tecnologia Ambiental (Universitat Autònoma de Barcelona, UAB); and the Department of Environment and Planning (Universidade de Aveiro, UA).

JEMES CiSu is a refinement of an existing Erasmus Mundus Master programme in Environmental Studies (JEMES), which has been operating since 2007. Not only does this new master programme JEMES CiSu follow a worldwide trend towards rapidly growing metropolises, which requires an increased focus on environmental and climate issues in cities and towns, but it also builds on many years of experience offering an integrated high-class Erasmus Mundus degree to students from all over the world.

The programme, which is delivered in English, aims to enable excellent graduates with first degrees in engineering, science, management and technology to successfully deal with complex urban processes and problems across international, cultural and disciplinary boundaries.

The European universities offering the JEMES CiSu Master are already actively addressing diverse local and regional environmental and socio-economic problems, but in order to ensure increased multi-disciplinarity and a broader global scope, the consortium of European universities has linked up with universities in Australia, China and the United States, thereby bringing together strong expertise that encompasses the needs and opportunities in several continents, in industrialising as well as in industrialised countries.

Structure

The JEMES CiSu programme is structured so that students undertake their studies with at least two European Universities and they have the option of including a third country university within the programme's delivery over two years, thereby providing a greater depth of learning, more organisational engagement and a richer cultural experience. The programme, which focuses on Cities & Sustainability as an overarching theme is divided into two sub-themes, namely:

- ✓ Sustainable **Management & Planning** (with AAU, and UAB)
- ✓ Sustainable **Technologies & Processes** (with TUHH, and UA)

Students have the option of either starting their studies at Aalborg University or Universitat Autònoma de Barcelona and may end their studies at any of the four participating universities. Students must, however, spend their second semester at either Technische Universität Hamburg-Harburg or Universidade de Aveiro. Furthermore, they will have the option to study half a semester (15 ECTS) at either n University tbc (USA), University of New South Wales (UNSW, Australia), Beijing Normal University (BNU, China) or Beijing University of Technology (BJUT, China). For a more thorough overview of the mobility scheme the candidates are advised to have a look at page 33 of the JEMES CiSu curriculum.

The programme is full time over 24 months and divided into 4 semesters of study as follows;

1st Semester at Aalborg University or Universitat Autònoma de Barcelona, 30 ECTS:

Cities & Sustainability in a Management Perspective

The main teaching topics include life-cycle based management, tools and systems of sustainable development, ecological economics, and political ecology.

2nd Semester at Technische Universität Hamburg-Harburg or Universidade de Aveiro. 30 ECTS:

Cities & Sustainability in an Engineering Perspective

The main teaching topics include air pollution, risk assessment and management, waste and energy systems, and water and wastewater.

3rd Semester, Mobility semester in third country/European University in the JEMES CiSu consortium, 30 ECTS:

Professional Development

The third semester has a strong focus on project work and gaining practical experience and professional development vis-à-vis a combination of internship and project work. The project works is co-supervised and executed in strong collaboration with associated partners.

4th Semester at the European University where the 3rd semester was concluded, 30 ECTS:

Master's thesis, Joint European Master in Environmental Studies - Cities & Sustainability

The Master's thesis is co-supervised by at least 2 partner universities and conducted in strong collaboration with associated partners.