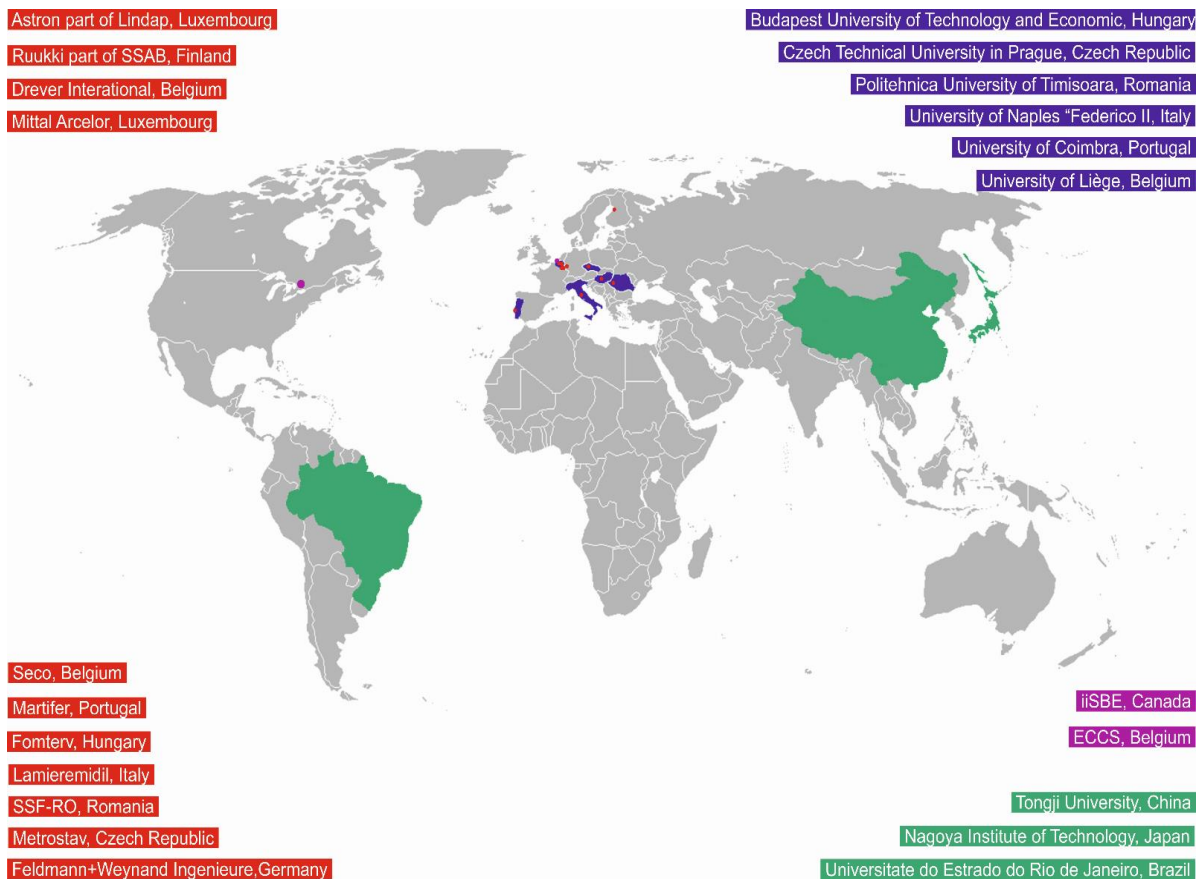


Application

for Erasmus Mundus Joint Master Degrees (EMJMD) 2017

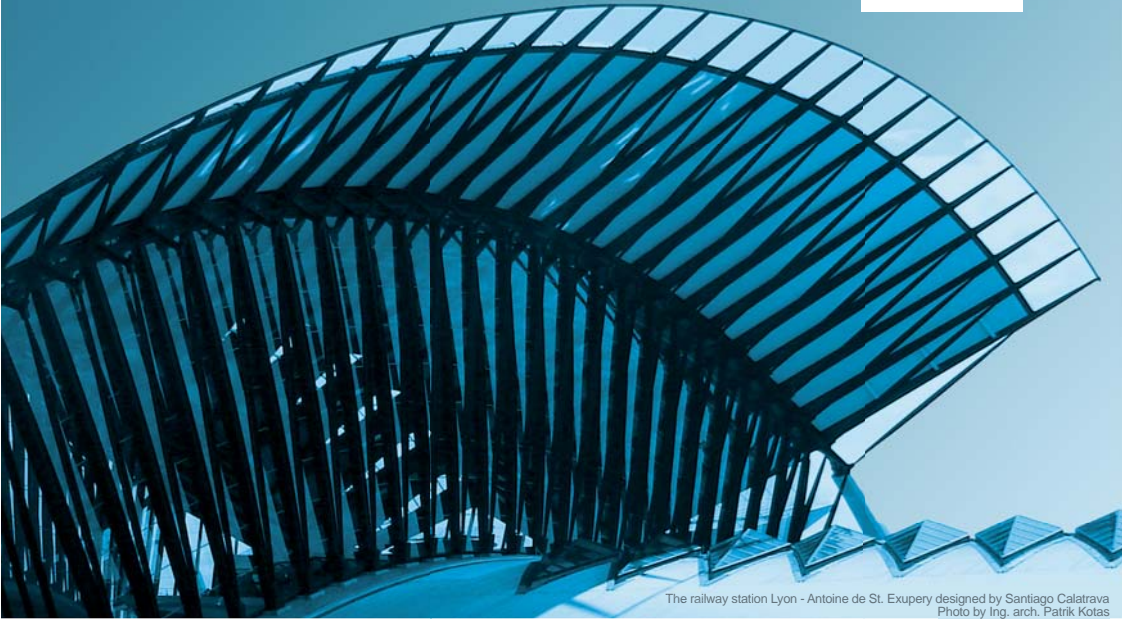
Sustainable Constructions under Natural Hazards and Catastrophic
Events

SUSCOS_M



ANNEX 11

Leaflet of Programme



The railway station Lyon - Antoine de St. Exupery designed by Santiago Calatrava
Photo by Ing. arch. Patrik Kotas

SUSCOS

The focus of SUSCOS Sustainable Constructions under Natural Hazards and Catastrophic Events European master course is to provide attendees the engineering ability and know-how to design and construct steel and timber structures in a balanced approach between economic, environmental and social aspects, enhancing the sustainability and competitiveness of the steel and timber industry.

The courses are lectured in English by academics from all partner institutions and invited teachers from associated members. The first edition (2012-2014) of the course will start at University of Coimbra and continue at Czech Technical University in Prague.

SUSTAINABLE CONSTRUCTIONS UNDER NATURAL HAZARDS AND CATASTROPHIC EVENTS (SUSCOS)

The course is organized in three modules covering buildings, bridges and energy-related infra-structures and equipments with a practice oriented approach. A strong emphasis is given to the reduction of carbon footprint, the energy efficiency of buildings considering a life-cycle approach and the integration in the structural systems of renewable energies and innovative technologies.

The degree awarded is a Master Degree, provided as a multiple diploma. The MSc has duration of three semesters and is held on a rotating basis among partners. Coursework is concentrated in two countries and dissertation work is divided between all partners. Students may spend every single term in other country. The programme is structured in 3 semesters for one and a half year of study. The courses are marked as compulsory (C) or elective (E).

LIST OF SUBJECTS:

1st semester

- 1C1 Design of sustainable constructions
- 1C2 Conceptual design of buildings
- 1C3 Conceptual design of bridge
- 1C4 Local culture and language
- 1E5 Advanced design of glass structures
- 1E6 Advanced design of timber structures
- 1E7 Rehabilitation and maintenance of structures

2nd semester

- 2C8 Advanced design of steel and composite structures
- 2C9 Design for seismic and climate changes
- 2C10 Design for fire and robustness
- 2C11 Business economics and entrepreneurship
- 2E12 Design for renewable energy systems
- 2E13 Advanced design of concrete structures
- 2E14 Design of aluminium and stainless steel structures

3rd semester

- C15 Theses

PARTNER UNIVERSITIES:



University of Coimbra



University of Liège



„Politehnica”
University of Timisoara



Luleå University
of Technology



University of Naples
„Federico II”



Czech Technical
University in Prague