Welcome to SUSCOS_M
Sustainable Constructions under Natural Hazards and Catastrophic Events

European Joint Masters Courses

European Erasmus Mundus Master Course
Sustainable Constructions
under Natural Hazards and Catastrophic Events
520121-1-2011-1-CZ-ERA MUNDUS-EMMC
Erasmus Mundus Programme

Action 1
Joint Programmes
SUSCOS: Goal and scope

- The main focus of SUSCOS is to provide engineers the ability and know-how to design and construct structures in a balanced approach between economic, environmental and social aspects, enhancing the sustainability and competitiveness of the Steel Industry.

- Steel and timber structures, buildings, bridges and energy-related infrastructures 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.
Partner: Czech Technical University in Prague

(CZ, coordinator)
Partner: University of Coimbra (PT)
Partner: Lulea University of Technology (SE)
Partner: "Politehnica" University of Timisoara (RO)
Partner: University of Liege (BE)
Partner: University of Naples "Federico II" (IT).
Partners

- Czech Technical University in Prague (coordinator)
- "Politehnica" University of Timisoara
- University of Coimbra
- Lulea University of technology
- University of Liège
- University of Naples "Federico II"
Partners & Associate members

ArcelorMittal
the world's leading integrated steel and mining company

ECCS
The European Convention for Constructional Steelwork

CMM
The Portuguese Steelwork Association
Partner & Associate members

- Lulea (Sweden)
- Timisoara (Romania)
- Ljubljana (Slovenia)
- Prague (Czech Republic)
- Liege (Belgium)
- Naples (Italy)
- Coimbra (Portugal)
- ECCS (Belgium)
- CMM (Portugal)
- Arcelor Mittal (Luxembourg)
- Rio de Janeiro (Brasil)
- Makiyivka – Donbas (Ukraine)
- Mosul (Iraq)
- Tongji - Shanghai (China)
- Kyrgyz (Kyrgyz an)
- Moscow (Russia)
- Ljubljana (Slovenia)
- Timisoara (Romania)
- Lulea (Sweden)
- Prague (Czech Republic)
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- Mosul (Iraq)
- Tongji - Shanghai (China)
- Kyrgyz (Kyrgyz an)
- Moscow (Russia)

General introduction – Sustainable Constructions under Natural Hazards and Catastrophic Events
Management

**Board of Directors**
- 6 members
- (project coordinators from partners universities)
- R. Landolfo
- D. Dubina
- F. Wald
- J. P. Jaspart
- L. Da Silva
- M. Veljkovic

**External Advisory Board**
- 7 members
- (4 representatives from industry and 3 representatives from Associated Member Universities)

**Admission and Quality Committee**
- 7 members

**Suscos Management Team**
- (administrative, financial and student support)
- R. Landolfo
- D. Dubina
- F. Wald
- J. P. Jaspart
- L. Da Silva
- M. Veljkovic

General introduction – Sustainable Constructions under Natural Hazards and Catastrophic Events
Education programme

- The MSc has a duration of **18 months** (90 ECTS)

- The **course** is organized in **3 modules**

- The courses are lectured in English by academics from all partner institutions and invited teachers from associated members
Diploma awarded

- The degree awarded is a Master Degree provided as a multiple diploma
Mobility plan

First semester

Courses, 30 ECTS
Mobility plan

First semester
*Courses, 30 ECTS*

Second semester
*Courses, 30 ECTS*

Partner 1

Partner 2
Mobility plan

First semester
Courses, 30 ECTS

Second semester
Courses, 30 ECTS

Third semester
Thesis, 30 ECTS

First semester
Courses, 30 ECTS
University of Liège

Second semester
Courses, 30 ECTS
"Politehnica" University of Timisoara
Mobility plan:
Third edition 2014-2016

First semester
*Courses, 30 ECTS*
- Lulea University of Technology

Second semester
*Courses, 30 ECTS*
- University of Naples Federico II
Lecture content

First semester (30 ECTS)

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

Second semester (30 ECTS)

- 2C8 Advanced design of steel end 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
Lecture content

Third semester (30 ECTS)

• Dissertation work
Teaching methods

Frontal lesson + laboratory activity + group project

Class support material

• Lectures
• Suggested readings
• Notes
• Tutorials
Admission requirements

A Bachelor of Science in the field of Civil engineering
(B.Sc. degree or a nationally recognized degree equivalent to minimum 180 ECTS), with a minimum grade of “B–“ in the ECTS grading scale (at least a score of 70%), from a field in relation with the scope of the SUSCOS_M master.

Additional 30 ECTS points of courses within the minor in Structural Engineering
(i.e. subjects in the field of Structural Mechanics, Building Materials, Structural Analysis, Design of structures)

\[180 \text{ ECTS} + 30 \text{ ECTS} = 210 \text{ ECTS}\]
Participation cost

<table>
<thead>
<tr>
<th>Third-country Students</th>
<th>4000 € per semester</th>
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<tbody>
<tr>
<td>European students</td>
<td>2000 € per semester</td>
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</table>

The fees include: tuition, laboratory, library, social security, insurance and other administrative/operational costs, language training included in the programme.

The fees do not include housing rentals and administrative costs other than academic ones (i.e. costs due to immigration procedure, banking etc.).
Grants: first edition

- **6 ERASMUS MUNDUS GRANTS** for European students (edition 2012-2014)

  *Monthly allowance (17 x 500 €) + Participation costs per term (3 x 2000) = Total 14 500 €.*

- **9 ERASMUS MUNDUS GRANTS** for third-country students

  *Monthly allowance (17 x 1 000 €) + Participation costs per term (3 x 4 000 €) + Contribution to travel (8 000 €) = Total 37 000 €.*
Grants

• **6 ERASMUS MUNDUS GRANT** for third-country students from:
  – "Western Balkans and Turkey"
  – "Tunisia and Egypt"
  – "Eastern Neighbourhood Countries" (i.e. Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine).

• **12 SUSCOS CONSORTIUM GRANTS**

  *Participation costs 3 x 2000 = 6000 €. The travel and accommodation expenses of European students may be covered by Erasmus national grant based on bilateral University agreements as well.*
Important deadlines

- The **first call** is open to all students.
- **Second call** is open to EU students for SUSCOS Consortium Grants

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<thead>
<tr>
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<th>Application Deadline</th>
<th>Notification of Admission</th>
<th>Grants Notification</th>
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<tbody>
<tr>
<td>1st Call</td>
<td><strong>10 Jan 2013</strong></td>
<td>28 Mar 2013</td>
<td>25 April 2013</td>
</tr>
<tr>
<td>2nd Call</td>
<td><strong>10 Apr 2013</strong></td>
<td>15 May 2013</td>
<td>30 May 2013</td>
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General introduction – Sustainable Constructions under Natural Hazards and Catastrophic Events


APPLICATION AND GRANTS
for European Erasmus Mundus Master Course - 520121-1-2011-1-CZ-ERA MUNDUS-EMMC
Sustainable Constructions under natural hazards and catastrophic events

Each student may apply in one edition for one SUSCOS grant only. Students with two passports are asked to selected under which country they prefer to apply.

APPLICATION

The signed Application form and all required documents have to be sent in pdf format by e-mail on address elias.pve@fsv.cvut.cz.
The receiving of the application will be confirmed by email. Original documents will be check if the application will be accepted. The potential appeal procedure following the rejection of a scholarship/fellowship application could be explained.

Application form: in PDF format, in RTF format, and in ZIPped rt format.


For further information visit and join us on Facebook.
Thank you for your attention

http://steel.fsv.cvut.cz/suscos