



**MSc Design of Steel Structures – 1<sup>st</sup> Edition (A.Y. 2007-2008)**  
**University of Naples Federico II – Engineering School**  
**Department of Structural Engineer**

Director: Prof. Antonello De Luca – President: Prof. Federico M. Mazzolani

### Target

To form professionals with higher level education in the specific field of steel structures.

### Recipients

Students who have earned a 5-years degree certificate in Engineering or Architecture (or equivalent 3+2 years degree), released by an University in a country of the European Community. The expected number of Master students is min 8 and max 20.

### Pre-registration and admission

The pre-registration form can be downloaded from the site [www.designofsteel.com](http://www.designofsteel.com). Procedure for the admission will be on September 2007.

### Tuition fee

The tuition fee (excluding any accommodation) for the Master is 5.000,00€, due in two instalments.

### Scholarships

Scholarships for tuition fees should be available for the first 8 participants. It is foreseen that also some scholarships for accommodation (4.500,00€+IVA) should be available.

### Attendance, facilities, accommodation

One-year-full-time duty is required to Master students, with obligatory attendance of five days a week. A specific building complex (Istituto Francesco Denza in Posillipo - Naples) will host Atelier, seminars and short courses activities. This building facility will also provide accommodation and sport facilities for nine months to the Master students.

### Teaching system

The Master courses will be given in English language. The teaching/learning activity is organized in basic courses, "Atelier" activity, seminars/short courses, stage at industries, foreign Universities and professional firms.

### Participation of the industrial and professional world

Seminar and short courses, also with free attendance of professionals, are organized with the contribution of industries and firms involved in the field of steel structures. Further, stages at industries, foreign Universities, and/or professional firms can be arranged during the final term.

### Degree

2<sup>nd</sup> level University Master, with 60 credits, as based on the European Credit Transfer System (ECTS).

**Schedule of four terms – I term:** 15<sup>th</sup> October 2007 – 15<sup>th</sup> December; **II term:** 15<sup>th</sup> January - 30<sup>th</sup> March; **III term:** 15<sup>th</sup> April - 30<sup>th</sup> June; **IV term:** 15<sup>th</sup> July - 30<sup>th</sup> September 2008.



### Promoters:



**ACEN**

Associazione  
Costruttori Edili Napoli

### Partners:



### Sponsors:





### Courses

	Course	Professor	CFU
<b>A</b>	General principles of design and structural types in steel structures	A. De Luca	4
<b>B</b>	Stability of steel structures	C. Faella	4
<b>C</b>	Design and detailing of connections	G. De Matteis	4
<b>D1</b>	Steel and Architecture	P. Miano	2
<b>D2</b>	Tension Structures and Glass Engineering	G. Della Corte B. Faggiano	2
<b>E</b>	Cold-Formed thin-walled members and structures	R. Landolfo	4
<b>F</b>	Steel structures in tall buildings and large coverings	E. Mele	4
<b>G</b>	Design, Fabrication and Erection of Steel Bridges	V. Piluso	4
<b>H</b>	Composite Structures	E. Nigro	4
<b>L1</b>	Aluminium Structures	F. M. Mazzolani	2
<b>L2</b>	Steel in Refurbishment	F. M. Mazzolani	2
<b>M1</b>	Masts, Towers, Tanks and Silos	A. Mandara	2
<b>M2</b>	Provisional Structures and Fire Design	B. Calderoni	2

### Time-table

**1<sup>st</sup> Term:** 15<sup>th</sup> October - 15<sup>th</sup> December. 9 weeks.

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9.30-10.30	<b>C</b>	<b>A</b>	<b>A</b>	<b>C</b>	
10.30-11.30	<b>C</b>	<b>A</b>	<b>A</b>	<b>C</b>	
11.30-12.30	<b>B</b>	<b>D 1</b>	<b>B</b>	<b>D 2</b>	
12.30-13.30	<b>B</b>	<b>D 1</b>	<b>B</b>	<b>D 2</b>	
15.30-16.30	Study	Study	Study	Study	
16.30-17.30	Study	Study	Study	Study	
17.30-18.30	Study	Study	Study	Study	
18.30-19.30	Study	Study	Study	Study	

**2<sup>nd</sup> Term:** 15<sup>th</sup> January – 30<sup>th</sup> March. 10 weeks.

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9.30-10.30	<b>E</b>	<b>E</b>	<b>F</b>	Study	Study
10.30-11.30	<b>E</b>	<b>E</b>	<b>F</b>	Study	Study
11.30-12.30	<b>F</b>	<b>G</b>	<b>G</b>	<b>Seminars</b>	Study
12.30-13.30	<b>F</b>	<b>G</b>	<b>G</b>	Study	Study
					Study
15.30-16.30	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	
16.30-17.30	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	
17.30-18.30	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	<b>Atelier 1</b>	
18.30-19.30	Study	Study	Study	Study	

**3<sup>rd</sup> Term:** 15<sup>th</sup> April – 30<sup>th</sup> June. 10 weeks.

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9.30-10.30	<b>H</b>	<b>H</b>	<b>L2</b>	Study	Study
10.30-11.30	<b>H</b>	<b>H</b>	<b>L2</b>	Study	Study
11.30-12.30	<b>L1</b>	<b>M1</b>	<b>M2</b>	<b>Seminars</b>	Study
12.30-13.30	<b>L1</b>	<b>M1</b>	<b>M2</b>	Study	Study
					Study
15.30-16.30	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	
16.30-17.30	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	
17.30-18.30	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	<b>Atelier 2</b>	
18.30-19.30	Study	Study	Study	Study	

**4<sup>th</sup> Term:** 15<sup>th</sup> July – 30<sup>th</sup> September. Develop of a specific topic under supervision of a lecturer and stages at Industries or Universities partners of the Master.