



INTERNATIONAL TRAINING SCHOOL ON LIGHTWEIGHT STEEL FRAMED CONSTRUCTIONS



DETAILS

7-11 OCTOBER 2024

CONFERENCE CENTRE OF THE UNIVERSITY OF
NAPLES FEDERICO II
VIA PARTENOPE 36, NAPLES, ITALY.

OPEN TO
ENGINEERS, ARCHITECTS, PHD STUDENTS,
POSTDOCTORAL RESEARCHERS.

40 HOURS (5 CFU)

CONTACTS
info.dist@unina.it

THE COURSE

Many different technologies and products are currently available in the market of constructions. Designers' choices are strongly influenced by the constructional costs and the erection times provided that the chosen technology and the associated constructional systems guarantee adequate performance in terms of safety, durability, and eco-friendliness. In this perspective, dry constructions made of lightweight cold-formed steel members optimally combine high structural performance with relatively low costs and constructional times, thus being competitive, sustainable, and effective solutions, especially for housing as respect to more traditional systems.

Despite their great potentialities and the large number of successful applications in many countries, the study of lightweight cold-formed steel structures is not commonly covered in many academic courses. Therefore, the present course aims at providing basic knowledge about the main features characterizing the mechanical behaviour, design, and technology of the following types of lightweight cold-formed steel structures: stick-built constructions, panelised constructions, modular constructions, and nonstructural architectural elements.

CHAIR R. LANDOLFO

CYCLES OF LECTURES

- materials and constructional technologies structural types and their detailing
- design criteria per limit state
- structural analysis and code-complaint verifications
- execution requirements

SKILLS PROVIDED

- Adopting different design approaches as appropriate for the characteristic structural system
- Understanding the structural behaviour of lightweight cold-formed steel structures.
- Understanding the appropriate methods of analysis for different structural types.
- Designing the appropriate detailing per structural system.
- Structural analysis, structural design, and relevant technology.

LECTURERS

Alessia Campiche, University of Naples Parthenope, Italy
Mario D'Aniello, University of Naples Federico II, Italy
Dan Dubina, Polytechnic University of Timisoara, Romania
Luigi Fiorino, University of Naples Federico II, Italy
Raffaele Landolfo, University of Naples Federico II, Italy
Alessandro Prota, University of Naples Federico II, Italy
Colin Rogers, McGill University, Canada
Sergio Russo Ermolli, University of Naples Federico II, Italy
Viorel Ungureanu, Polytechnic University of Timisoara, Romania