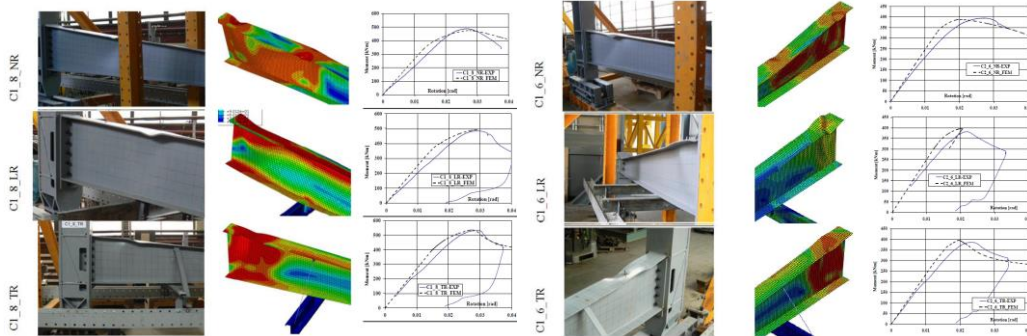


**Course announcement**  
***“Advanced design of metallic structures”***  
**Assoc. Prof. Adrian DOGARIU**



**Hours 8 - 1 cfu**  
**Classes will be in English.**  
**Compulsory attendance**

**Final essay** based on a set of questions provided on the first day. Final essay is compulsory to obtain cfu

**ABSTRACT**

*“Advanced design of metallic structures”*

The course will briefly present applied finite element method designed to verify the strength capacity of a metallic structures, which accounts for both plasticity and buckling failure modes. Within the class will be discussed geometrically and materially nonlinear analysis with imperfections included (GMNIA).

Seismic behavior of structures will be also addressed together with the presentation of building performance-based design methodology for the evaluation of the efficiency of retrofit systems.

Adrian Dogariu is an associate professor at Steel Structures and Structural Mechanics Department from Politehnica University of Timișoara (Romania) being responsible of Strength of Materials, Finite Element Analysis and Metallic Shells Structures courses. He is the coordinator of “Advance Design of Steel and Composite” master program from Civil Engineering Faculty Timisoara. He was involved in many national and international research grants supported by European Commission and Research Found for Steel and Coal mainly investigating the use of metallic-based technologies in building retrofitting.

✉ **Register by** sending email to:

[tea.taraborelli@unich.it](mailto:tea.taraborelli@unich.it) & [adrian.dogariu@upt.ro](mailto:adrian.dogariu@upt.ro) (in cc)

*For those not at University of Chieti-Pescara it is possible to follow the short course online: specify request when you register.*

TIMETABLE			
<b>WEDNESDAY</b>	14 June 2023 Room M4 Polo Micara, Pescara Campus	15:00	19:00
<b>THURSDAY</b>	15 June 2023 Room M4 Polo Micara, Pescara Campus	15:00	19:00