

International Doctorate in Civil and Environmental Engineering

DOCTORAL COURSE – A.Y. 2020/21

Plasticity

Teacher: **Prof. Massimiliano Lucchesi and Prof. Nicola Zani**

DICEA, Università degli Studi di Firenze

Email: massimiliano.lucchesi@unifi.it, nicola.zani@unifi.it

Calendar	
31/05/2021, 11:00-13:00	Experimental results; deformation process, elastic range, plastic history
03/06/2021, 11:00-13:00	Stress range and yield surface, hardening rules
07/06/2021, 11:00-13:00	Work, dissipation axioms
10/06/2021, 11:00-13:00	Convexity of the stress range, associated flow rule
14/06/2021, 11:00-13:00	Numerical solution of the equilibrium problem
21/06/2021, 11:00-13:00	Limit analysis; static and kinematic theorems
28/06/2021, 11:00-13:00	Some applications of limit analysis
01/07/2021, 11:00-13:00	Some results of finite plasticity
Total	16 hours - 8 credits