

International Doctorate in Civil and Environmental Engineering

DOCTORAL COURSE

Plasticity

Teacher: Prof. **M. Lucchesi, N. Zani**

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| Calendar | |
|--|---|
| 19/03/2020, 11,30-13,30 – Aula "Piero Villaggio" (IV piano), Sede di Ingegneria Strutturale (edificio A), Dip.to di Ingegneria Civile e Industriale (DICI) Università di Pisa, Largo Lucio Lazzarino, Pisa | Experimental results; deformation process, elastic range, plastic history |
| 24/03/2020, 11,30-13,30 – Aula "Piero Villaggio" | Stress range and yield surface, hardening rules |
| 26/03/2020, 11,30-13,30 – Aula "Piero Villaggio" | Work, dissipation axioms |
| 31/03/2020, 11,30-13,30 – Aula "Piero Villaggio" | Convexity of the stress range, associated flow rule |
| 02/04/2020, 11,30-13,30 – Aula "Piero Villaggio" | Numerical solution of the equilibrium problem |
| 07/04/2020, 11,30-13,30 – Aula "Piero Villaggio" | Limit analysis; static and kinematic theorems |
| 14/04/2020, 11,30-13,30 – Aula "Piero Villaggio" | Some applications of limit analysis |
| 16/04/2020, 11,30-13,30 – Aula "Piero Villaggio" | Introduction to finite plasticity |
| Total | 16 hours – 8 credits |