



DICAr

Dipartimento di Ingegneria Civile e Architettura
Università degli Studi di Pavia



A course on
Advanced numerical methods

Organized within
the European Joint Doctorate Program
SEED

Goal of the course is to introduce students to some innovative computational methodologies, to possible related problematics, mathematical insights.

- Wednesday 19 September, morning
 - Mixed methods: locking phenomena and mixed approach solutions (F. Auricchio)
 - Mixed methods: mathematical aspects (C.Lovadina)
- Wednesday 19 September, afternoon
 - Mixed methods: development of codes (G.Scalet)
- Thursday 20 September, morning
 - The Virtual Element Method: an introduction (F.Brezzi)
 - The Virtual Element Method: application to Stokes and Elasticity (L.Beirao)
- Thursday 20 September, afternoon
 - VEM: development of codes (A.Russo)
- Friday 21 September, morning
 - Isogeometric Analysis: an introduction with applications (A.Reali, L.Tamellini)
- Friday 21 September, afternoon
 - Isogeometric Analysis: mathematical aspects (G.Sangalli, M.Tani)

