



2–4 OCT 2019

9–18

E2.22

Engineering simulations with open source codes

—
Dr. Franco Concli
Free University of Bozen-Bolzano

Contents of the course

Introduction to Finite Elements
Beam, Shell and Solid.

Modelling
Geometry (Salome): Parametric modelling.
Meshing (Salome): Automatic tetrahedralization and Advanced meshing strategies.

Analysis
Linear Analysis: Isotropic materials, Composites and Thermal loads.
Non-linear Analysis: Plasticity and Contacts
Modal analysis.

Engineering applications / case studies
Gears, Pressure vessels and Interference Fits.