

Corso di DOTTORATO IN INGEGNERIA CIVILE E ARCHITETTURA

OFFERTA FORMATIVA - A.A. 2019/2020

ICD (Insegnamenti del Corso di Dottorato) previsti

Doctorate Course in CIVIL ENGINEERING AND ARCHITECTURE

TRAINING COURSES - Academic years 2019/2020

Planned ICDs (Short Courses of the above Doctorate Course)

**Tematica "Ingegneria delle Infrastrutture e del Territorio" (INFR)
Research Topic "Infrastructures and Environmental Engineering"**

A.A. 2019-2020 (ICD in 2020)

- (1) Advanced dimensional analysis and self-similarity - Lecturer: Prof. Sandro Longo - 2 CFU (12h) - 6/02/2020 (6h) e 7/02/2020 (6h) - Final test (date: to be defined)
- (2) Rheology of bituminous materials - Lecturer: Prof. Manfred Partl - 6 CFU
- (3) Introduction to Geostatistics - Lecturer: Prof. J. Jaime Gómez-Hernández - 5 CFU (30h) - 23, 24, 25, 26, 29, 30/06/2020 - Final test (date: to be defined)
- (4) Underground excavations: geological aspects, monitoring and risk analysis related to the geotechnical design - Lecturer: Prof. Andrea Segalini - 2 CFU (12h) - 4 lectures, 3h for each, in June-July 2020 - Final test (date: to be defined)
- (5) Smoothed particle Hydrodynamics numerical methods - Lecturer: Ing. Renato Vacondio - 3 CFU (18h) - from 21 to 24 September 2020 - Final test 24/09/2020
- (6) Introduction to Finite Volume method for hyperbolic equations - Lecturer: Prof. Andrea Maranzoni - 2 CFU (12h) - from 12 to 15 October 2020 - Final test 16/10/2020

**Tematica "Ingegneria Strutturale e Geotecnica" (STRG)
Research Topic "Structural and Geotechnical Engineering"**

A.A. 2019-2020 (ICD in 2020)

- (1) Introduction to non-linear problems in mechanics - Lecturer: Prof. Roberto Brighenti - 2 CFU (12h) - 3/03/2020 (3h), 10/03/2020 (3h), 17/03/2020 (3h), 24/03/2020 (3h), Final test 31/03/2020, h 14.30
- (2) Introduction to Geotechnical Earthquake Engineering - Lecturers: Prof. Ms Lorella Montrasio, Prof. Francesco Castelli, Prof. Kyriazis Pitilakis - 2 CFU (12h) - 26, 27 and 28/03/2020 - Final test: no (that is, without Final test)

**Tematica "Architettura e città" (T ARCH)
Research Topic "Architecture and Urban Planning"**

A.A. 2019-2020 (ICD in 2020)

- (1) Identità e progettualità della rigenerazione urbana. Lecturers: Costi, Ventura, Zazzi - 2 CFU
- (2) La città lineare CITTAEMILIA. Prove di rigenerazione. Lecturers: Quintelli, Prandi, Gandolfi - 2 CFU