Corso di DOTTORATO IN INGEGNERIA CIVILE E ARCHITETTURA


ICD (Insegnamenti del Corso di Dottorato) previsti

Doctorate Course in CIVIL ENGINEERING AND ARCHITECTURE

TRAINING COURSES - Academic years 2019/2020 and 2020/2021

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

A.A. 2020-2021  (ICD in 2021)
1. Smoothed Particle Hydrodynamics numerical methods - Lecturer: Ing. Renato Vacondio - 3 CFU (18h) – Final test (date to be defined)
2. Inverse problems in surface and subsurface hydrology - Lecturer: Ing. Marco D’Oria - 3 CFU (18h) – Final test (date to be defined)
3. Dam-break, dam-breach and levee breach flows: analytical, semi-analytical and numerical solutions; case studies – 3 CFU (18 h) Lecturers: Prof. Ms Francesca Aureli and Prof. Paolo Mignosa – Final test (date to be defined)

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 Pitolakis - 2 CFU (12h) - 26, 27 and 28/03/2020 - Final test: no (that is, without Final test)

A.A. 2020-2021  (ICD in 2021)
1. Introduction to structural health monitoring - Lecturer: Prof. Francesco Freddi - 2 CFU (12h) - April 2021 , Final test (date: to be defined)
2. Tecniche di modellazione non lineare di strutture esistenti in c.a. - Coordinator: Prof. Roberto Cerioni - 2 CFU (14 h) - One week in the second half of June 2021 - Final test (date: to be defined)

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

A.A. 2020-2021  (ICD in 2021)
1. Tra conservazione e valorizzazione: nuovi usi per antiche civiltà. Lecturers: Brunetti, Coisson, Ottoni - 2 CFU
2. Architettura, città e sostenibilità. Giandebiaggi, Vernizzi, Calzolari, Gherri - 2 CFU