



## DOTTORATO IN SCIENZE DELL'INGEGNERIA (PHD IN ENGINEERING SCIENCES)

For complementary skills (attività trasversali), the PhD students are referred to the activities coordinated by IUSS, see <http://iuss.unife.it/scuole/attivita-trasversali>

### DISCIPLINARY ACTIVITIES (ATTIVITÀ DISCIPLINARE) Lectures, seminars, minicourses, classes, academic year 2019-20

TITLE	SPEAKERS AND/OR ORGANIZATION	NUMBER OF HOURS DATE	MAIN AREA
Modeling challenges in seismic collapse analysis of RC buildings	Prof. Sashi Kunnath, Dept. of Civil & Environmental Engineering - University of California at Davis (USA)	2h – 30 May 2019	civil
Organizzazione ed esperienze di una società d'ingegneria strutturale Architettura e struttura: problemi posti dal free form design	Ing. Antonello Mezzaluna, INGECO srl	2h – 1 Dec 2019	civil
Virtual Element Method	Dr. Gianmarco Manzini, Los Alamos National Laboratory, New Mexico, USA	2h – 28 Gen 2020	general
Deep Learning (architecture of deep neural network, python language; see specific website of the course)	Dr. Riccardo Zese, RTD, UniFE	I semester – 6 credits (~50h)	general
Mechanics of Structures (see specific website of the course)	Dr. Andrea Chiozzi, RTD, UniFE	II semester – 9 credits (>60 hours)	civil
Optimization Methods (see specific website of the course)	Prof. Maddalena Nonato, UniFE	II semester – 6 credits (~50h)	general
Numerical methods for partial differential equations (see specific website of the course; in english)	Prof. Giacomo Di Marco, UniFE, Math Dept.	II semester – 9 credits (>60 hours)	general
AIAS Academy – PhD Summer School	AIAS Organization: contatto UniFE : Prof. Paolo Livieri italian/international speakers as reported on the program	15-18 june 2020 full days	industrial
Introduction to models and techniques for wave propagation	Prof. Stefano Trillo, UniFE Prof. Alessandro Valiani, UniFE	20h, date to be fixed, autumn 2020	general
Introduction to computational complexity, and the polynomial hierarchy of complexity classes	Prof. Marco Gavaneli, UniFE	2h, October 2020	Information - general
Advanced technologies and algorithms for ICT	5/6 internal (ENDIF) and external speakers in the area of ICT	10/12h, October 2020	information
Elementi di filosofia e metodologia della ricerca	Prof. Giacomo Zanni, UniFE Prof. Davide Viaggi, UniBO	Two half days, October 2020	general
Analisi modale sperimentale: Teoria e Pratica	Prof. Emiliano Mucchi	8h, date to be fixed	industrial
Metrologia: problematiche e qualità della misura di grandezze fisiche	Prof. Michele Pinelli UniFE	8h, date to be fixed	general
Diagnosi dello stato di funzionamento di sistemi energetici	Prof. Silvio Simani, UniFE Prof. Pier Ruggiero Spina, UniFE Prof. Mauro Venturini, UniFE	8h, date to be fixed	Industrial/information