



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

DIPARTIMENTO DI STRUTTURE PER L'INGEGNERIA E L'ARCHITETTURA

Dottorato in Ingegneria Strutturale, Geotecnica e Rischio Sismico

PROPOSTA CORSO – OFFERTA FORMATIVA 2026

Titolo del corso	Disaster resilience assessment of urban networks (D-RUN 2026)
Docenti proponenti	Fulvio Parisi Andrea Miano (Università Telematica Pegaso)
Argomenti trattati / Descrizione sintetica	The D-RUN 2025 course will provide essential tools to assess disaster resilience of urban networks. Lectures will deal with both qualitative and quantitative approaches to resilience assessment. Participants will be taught how to integrate models for hazards, exposure, and physical vulnerability of civil infrastructure via QGIS. Special attention will be given to disaster resilience to natural hazards such as earthquakes, landslides or floods. Prioritization analysis will be considered as well as a major tool to support decision-making and resilience building. Monitoring information such as satellite data will be implemented to support numerical simulations, prioritization analysis and resilience evaluation. Through hands-on and numerical exercises via MATLAB, participants will evaluate the impact of natural events on urban environments, analysing the post-disaster functionality of urban networks and simulating recovery process according to different reconstruction strategies.
Data	13–23 aprile 2026
Numero di ore totali	24
CFU proposti	3
Modalità di erogazione	Mista