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DIPARTIMENTO
DI INGEGNERIA
CIVILE E AMBIENTALE

CIVIL AND ENVIRONMENTAL ENGINEERING

DOCTORAL PROGRAM 2023-2024



Alessandro Corradini is an Assistant Professor in the field of Roads, Railways and Airports at the University of Perugia, Department of Civil and Environmental Engineering, where he currently teaches Management of Road Infrastructure and Design of Road Infrastructure.

He received his Ph.D. in Civil Engineering from University of Perugia in 2016. Dr. Corradini has been the supervisor of the experimental activity at the Testing Material Laboratory - Infrastructure Section of University of Perugia since 2016. His research is mainly focused on the performance characterization of pavement materials, with a particular emphasis on material recycling, sustainable soil stabilization practices, innovative mixtures and technologies.

Location

DICA Meeting Room, Campus of Engineering of University of Perugia Via G. Duranti, 93 - Perugia

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For more info Mrs. Teresa Nocera, Ph.D. Program Secretariat (teresa.nocera@unipg.it)
Prof. Dr. Filippo Ubertini, Ph.D. Program Coordinator (filippo.ubertini@unipg.it)

WASTE MATERIALS FOR SUSTAINABLE ROAD CONSTRUCTION

Instructor

Alessandro Corradini, Ph.D.,
Assistant Professor, University of Perugia

Course Description

The course offers a comprehensive overview of the primary types and potential applications of recycled materials within the various layers of road pavement, positioning these as viable alternatives to conventional materials. It systematically explores the specific characteristics of construction technologies aimed at the development of sustainable pavements, with a particular research focus on evaluating the performance and suitability of the materials employed. The course also integrates practical applications across different pavement layers, including subgrade stabilization through biomass ashes, the construction of sub-base layers with recycled aggregates, cold recycling techniques utilizing reclaimed asphalt pavement (RAP), and the incorporation of various types of slag into bituminous mixtures.

Course Schedule (12 hours, 2 CFU)

October 17th, 2024, 14:30 – 17:30
October 21st, 2024, 14:30 – 17:30
October 24th, 2024, 14:30 – 17:30
October 28th, 2024, 14:30 – 17:30

