UNIVERSITY OF CATANIA | DICAR

MASTER'S DEGREE IN

CONSTRUCTION MANAGEMENT AND SAFETY

Engineering for construction within a sustainable approach

TECHNOLOGY • PROJECTS • SAFETY • INFRASTRUCTURE

Managing complex construction processes

The LM-26 programme develops the specific skills needed to address the different phases of large-scale works — from planning and design to construction, operation, monitoring and maintenance.

01

PLAN

Define needs and organise the process

→

02

DESIGN

Integrate technical and digital solutions

→

03

DELIVER

Manage works, resources and safety

→

04

OPERATE

Monitor performance and maintain assets

A life-cycle perspective focused on safety, functionality and sustainability.

A multidisciplinary curriculum

DIGITAL CONSTRUCTION

Fundamentals and Applications of BIM

PROJECT & PROCUREMENT MANAGEMENT

Construction Design and Project Management; Public Procurement Law; Procurement and Supplier Management

SAFETY & PERFORMANCE

Safety Engineering; Performance and Safety Control of Structural Materials and Members

INFRASTRUCTURE MANAGEMENT

Transport, hydraulic and maritime infrastructures

MONITORING & DECISION-MAKING

Damage Monitoring of Structures and Infrastructures; Decision Analysis

TERRITORY & ENVIRONMENT

Spatial planning of infrastructure, urban facilities and landscape

Elective courses allow students to complement the core curriculum.

Learning connected to practice

STUDY IN ENGLISH

A learning environment designed to connect engineering knowledge with real-world construction and infrastructure challenges.

SUPPORT THROUGHOUT THE COURSE

Flexible learning paths • Ongoing orientation and tutoring

EXPERT SEMINARS

Contributions from professionals and experts in the job market

INTERNSHIPS

Training periods with companies and institutions

INTERNATIONAL EXPERIENCE

Opportunities for training periods abroad

12 ECTS traineeship + 12 ECTS master thesis

Skills for construction and infrastructure challenges

The programme prepares graduates to contribute to the planning, delivery and management of complex works, combining technical understanding with organisation, safety and asset-performance perspectives.

PROJECT MANAGEMENT

Planning, coordination and control of construction projects

PUBLIC PROCUREMENT

Tendering, procurement processes and supplier management

SAFETY ENGINEERING

Safety management in construction and operational contexts

INFRASTRUCTURE & ASSET MANAGEMENT

Monitoring, maintenance and performance of existing assets

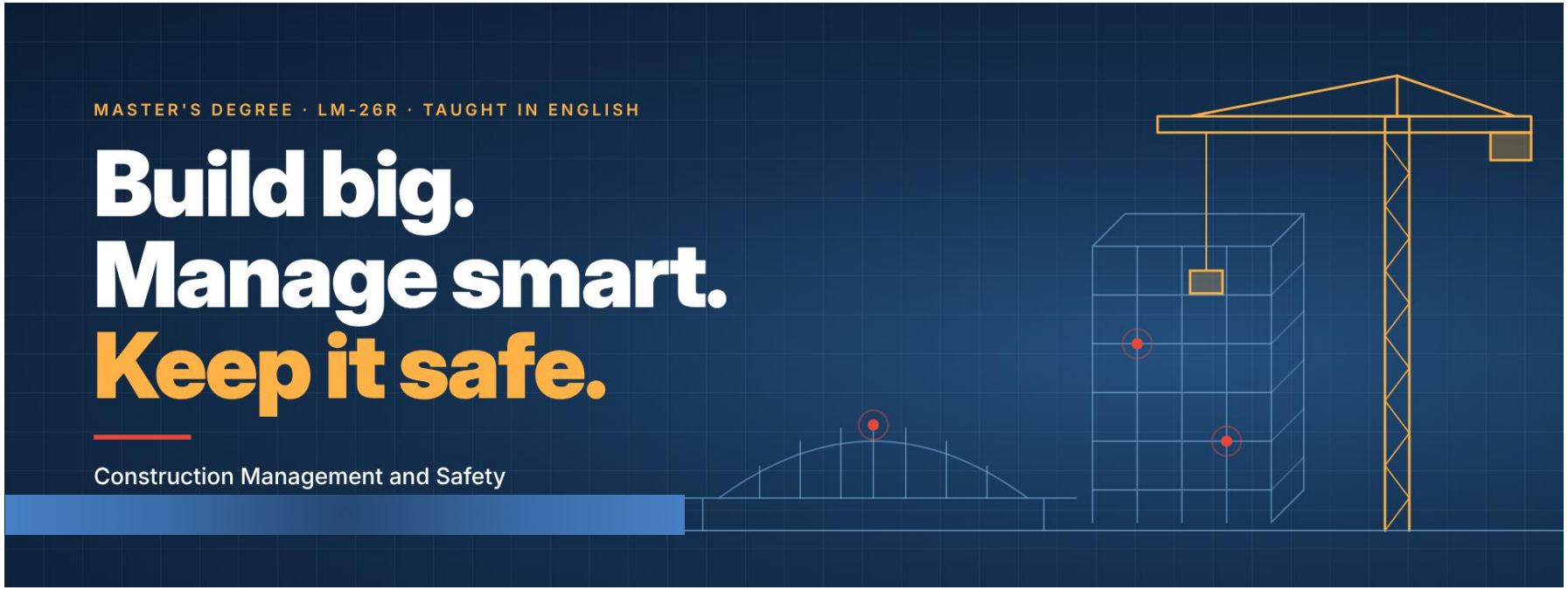
DIGITAL & SUSTAINABLE CONSTRUCTION

BIM-enabled processes and a sustainable approach to works

TERRITORIAL & ENVIRONMENTAL CONTEXTS

Infrastructure planning and relationships with the built environment

BUILD THE SKILLS TO MANAGE PROJECTS, PROTECT PEOPLE AND CARE FOR INFRASTRUCTURE.



Class: LM-26
Degree programme: Master’s Degree
Official name: Construction Management and Safety
Language of instruction: English
Governing body of the degree programme: Degree Programme Council (Teaching staff and faculty)
Chair of the Degree Programme Council: Prof. Alessandro Di Graziano (Faculty profile)
Reference department: Department of Civil-Industrial Engineering and Architecture (DICAR), University of Catania (Official website)
Location: University Campus, Via Santa Sofia 64 Catania and Villa Zingali Tetto, Via Etnea 742 Catania