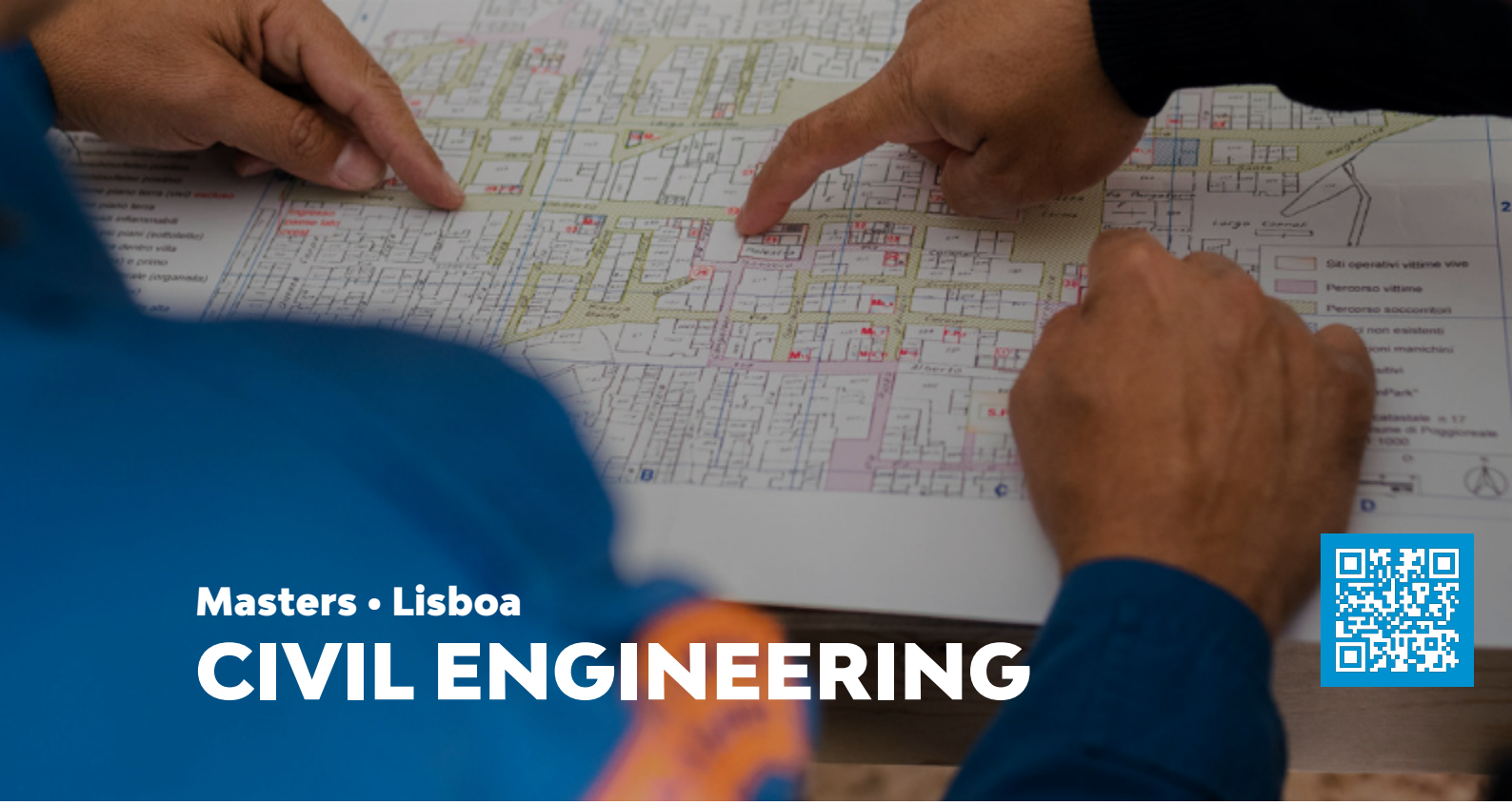

Masters • Lisboa

CIVIL ENGINEERING

Direction

Elói João Faria Figueiredo
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Secretariat

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Duration

2 Years

Credits

120 ects

Presentation

This is a graduation program leading to the Master's degree in Civil Engineering. It is structured according to the Bologna Declaration and has a normal duration of two years (four semesters, 120 ECTS). The course is organized in two optional branches of specialization (i) Construction and Structures and (ii) Construction and Hydraulics. The syllabus comprises a set of 12 common curricular units, present in the two branches, called Common Backbone, and three other specialization curricular units. The first three semesters intend to give students scientific knowledge in the field of civil engineering; the fourth semester is dedicated to the preparation and public discussion of a dissertation or a project. The program is composed of highly qualified and experienced faculty members, both in research and in industry, capable of covering different aspects of a Civil Engineering professional in their branches of specialization. The research activities are incorporated in the Civil Research Group (http://civilresearchgroup.ulusofona.pt) and are focused on four research areas: Structural Health Monitoring, Hygrothermal Behaviour of Buildings, Construction Materials, and Sustainable Road Infrastructure Materials and Design. This group is in line with the Sustainable Development Goal 9

STUDY PLAN

1st Year / Comon Core

1º Semestre	ects	2º Semestre	ects
Communication Paths	5	Complements of Building Materials	5
Modeling and Analysis of Structures	7	Construction Technology	5
Organization and Management of Projects	5	Road Infrastructure Management	5
Reinforced and Prestressed Concrete	7	Venture Management	5

1st Year / Specialization in Construction and Structures

1º Semestre	ects	2º Semestre	ects
Foundations	8	Structure Dynamics and Seismic Engineering	8

1st Year / Specialization in Construction and Hydraulics

1º Semestre	ects	2º Semestre	ects
Water Treatment Systems	8	Water Management Systems	8

2nd Year / Comon Core

1º Semestre	ects	2º Semestre	ects
Construction Preservation and Rehabilitation	5	Dissertation / Project	30
Construction Quality and Sustainability	4		
Research Methodologies and Seminars	15		

2nd Year / Specialization in Construction and Hydraulics

1º Semestre	ects
Hydric Resources Planning and Management	6

2nd Year / Specialization in Construction and Structures

1º Semestre	ects
Special Structures	6