



University of Oum El Bouaghi

Master's degree in Engineering - Civil & Structural

1. Program Description

The purpose of this Master is the training of specialists in Civil Engineering of high scientific and technical level. At the end of the two years of training, the student in Master Civil Engineering option Structure must acquire the scientific and technical skills, to enable him:

- Access to doctoral training and to integrate research teams in the fields of concrete and steel structures in university laboratories or in the industrial sector.
- To intervene in the design and calculation of structures, monitoring and carrying out projects in the Building and Public Works sectors.

Semester 1

Teaching unit	Title of the Subject
Fundamental teaching unit	Structural Mechanics
	Structural Dynamics 1
	Reinforced concrete structures 1
	Steel structures
Methodology teaching unit	Additional programming
	Experimental methods
	Innovative materials
Discovery teaching unit	Chosen course
	Chosen course
Transversal teaching unit	Technical English and terminology

Semester 2

Teaching unit	Title of the Subject
Fundamental teaching unit	Elasticity
	Structural Dynamics 2
	Reinforced concrete structures 2
	Foundations and supports
Methodology teaching unit	Finite element methods
	Steel construction project
Discovery teaching unit	Chosen course
	Chosen course
Transversal teaching unit	Ethics, deontology and intellectual property

Semester 3

Teaching unit	Title of the Subject
Fundamental teaching unit	Prestressed concrete
	Plasticity and damage
	Seismic engineering
	Special structures
Methodology teaching unit	Structural modelling
	Reinforced concrete structures project
Discovery teaching unit	Chosen course
	Chosen course
Transversal teaching unit	Literature search and brief design