



University of Oum El Bouaghi

Bachelor's degree in Engineering - Civil & Structural

1. Program Description:

The Civil Engineering License course aims to give the student a scientific and technological basis ensuring the mastery of academic and practical knowledge in the various construction fields. Besides, a professional aptitude leading to a good insertion in functions of framing, management within construction companies, follow-up and control of projects, this License ensures to the student a scientific and specific basic training which him confers a capacity of assimilation allowing him to access higher degrees: the Master and the possibility of preparing a Doctorate in the various specialties of Civil Engineering.

Speciality: Civil Engineering

Common Base Science and Technology

Semester 1

Teaching unit	Title of the Subject
Fundamental teaching unit	Mathematics 1
	Physics 1
	Structure of the material
Methodology teaching unit	TP Physics 1
	TP Chemistry 1
	Informatics 1
	Writing methodology
Discovery teaching unit	Careers in science and technology 1
Transversal teaching unit	Foreign Language 1 (English)

Semester 2

Teaching unit	Title of the Subject
Fundamental teaching unit	Mathematics 2
	Physics 2
	Thermodynamics
Methodology teaching unit	TP Physics 2
	TP Chemistry 2
	Informatics 2
	Methodology of the presentation
Discovery teaching unit	Careers in science and technology 2
Transversal teaching unit	Foreign Language 2 (English)

Semester 3

Teaching unit	Title of the Subject
Fundamentalteaching unit	Mathematics 3
	Waves and vibrations
	Fluidmechanics
	Rational mechanics
Methodologyteaching unit	Probability and statistics
	Informatics 3
	Technical design
	TP Waves and vibrations
Discoveryteaching unit	Basic technology
	Metrology
Transversal teaching unit	Technical English

Semester 4

Teaching unit	Title of the Subject
Fundamentalteaching unit	Soil Mechanics
	Building materials
	Mathematics 4
	Numericalmethods
	Strength of materials
Methodologyteaching unit	Computer Aided Design
	TP Soil Mechanics
	TP NumericalMethods
	TP Strength of Materials and Fluid Mechanics
	TP Building Materials
Discoveryteaching unit	Geology
	Topography 1
Transversal teaching unit	Entrepreneurship and business management

Semester 5

Teaching unit	Title of the Subject
Fundamental teaching unit	Resistance of Materials 2
	Reinforced Concrete 1
	Structural Steel
	Soil Mechanics 2
	Building Materials 2
Methodology teaching unit	TP Topography
	TP Soil Mechanics 2
	TP Construction Materials 2
	Construction Drawing
Discovery teaching unit	Topography 2
	General hydraulics
Transversal teaching unit	Construction techniques and rules

Semester 6

Teaching unit	Title of the Subject
Fundamental teaching unit	Structural Design
	Steel Structures
	Reinforced Concrete 2
	Foundations and Geotechnical Structures
Methodology teaching unit	End of Cycle Project
	Computer-aided design
	Quantity Surveying and Estimation
Discovery teaching unit	Roads and Miscellaneous Networks
	Organisation of building sites
Transversal teaching unit	Professional project and business management