



BACHELOR OF URBAN ENGINEERING

This is the first dual engineering degree in Egypt offering both the Baccalaureus in 4 years and the French Engineering Degree, accredited by the Commission du Titre d'Ingénieur (CTI), the only accreditation allowing to practice as an engineer in France.

The program is offered by the French University in Egypt (UFE) in partnership with the École des Ingénieurs de la Ville de Paris (EIVP), a member of Gustave Eiffel University. Combining urban engineering with architecture, infrastructure, and sustainable development, the program prepares graduates to address the challenges of ecological and energy transitions and to shape the cities of tomorrow in Egypt, France, and around the world.



WHY STUDY URBAN ENGINEERING AT UFE?

- **Tackling 21st century urban challenges:** 70% of the world's population will live in cities by 2050: urban engineers are at the heart of the solutions.
- **A partnership of excellence:** Program developed with EIVP, École des Ingénieurs de la Ville de Paris, member of Gustave Eiffel University.
- **A unique dual degree in Egypt:** Egyptian Bachelor + CTI-accredited engineering degree, the only accreditation allowing to work as an engineer in France.
- **Mobility organized by UFE to EIVP:** Immersion in one of the most prestigious French engineering schools.
- **Career without borders:** Practice in Egypt, France and all over the world, in engineering consultancies, administrations, and companies.

Program duration	4 years + 1
European Credits (ECTS)	240
French Partner University	EIVP - École des Ingénieurs de la Ville de Paris - Gustave Eiffel University
Faculty within UFE	Engineering and Architecture
Language Requirements	French B1 before Semester 5 and French B2 before Semester 7
Double-degree pathway	Baccalaureus upon successful completion of Semester 8, followed by the CTI-accredited French Engineering Degree (Master equivalent) upon successful completion of Semesters 9 and 10.

POSSIBLE CAREER PATHS:

- Urban Engineer
- Infrastructure and Mobility Engineer
- Urban and Regional Planner
- Sustainability and Energy Transition Specialist
- Environmental and Climate Resilience Consultant
- Urban Project Manager
- GIS and Spatial Data Analyst
- Real Estate Project Manager

PROGRAM CONTENTS:

SEMESTER 1

- Architectural Design and Right-Tech Construction-1
- Fundamentals and History of Art and Architecture 1
- Urban Landscape
- Principals of Architectural Representation 1
- Mathematics 1 / Physical Mechanics

*French and English Language Mandatory to Validate the Year

SEMESTER 3

- Architectural Design-3
- Theories of Architecture
- Urban Design 1
- Fundamental of Structural Analysis 1
- Right Tech Construction 3
- Elective-Humanities - Introduction to Sociology

*French and English Language

SEMESTER 5

- Design studio 5
- Management of urban spaces
- Construction durable
- Structure
- Urban metabolism
- Mobility - transportation
- Digital technology and applied mathematics
- Humanities and social sciences

*French and English language

SEMESTER 7

- Management of Public Spaces and Technical Infrastructure
- Urban Mobility & Infrastructure
- Ecological & Social Transition Engineering
- Energy & Climate for Cities
- Graduation Project 1
- Digital Transformation of Urban Services
(EIVP de Paris)

*French and English language

SEMESTER 9

- Planning and Management of Urban Spaces
- Options: Water Governance/Transportation
Economics/Urban Energy Network
- Mobility: Transportation Analysis/Design/Modeling
- Digital Technology and Applied Mathematics
City Information Model 3D
- Humanities and Social Sciences
Public Procurement and Stakeholder Dynamics
(EIVP de Paris)

SEMESTER 2

- Architectural Design and Right-Tech Construction-2
- Fundamentals and History of Art And Architecture 2
- Fundamentals of Contemporary Architecture
- Principals of Architectural Representation 2
- Mathematics 2 / Chemistry

*French and English Language Mandatory to Validate the Year

*Mandatory Internship (4 Weeks - Construction Site)

SEMESTER 4

- Architectural Design-4
- Right-Tech Construction 4
- Urban Design 2
- Principals of Architectural Representation 4
- Fundamental of Structural Analysis 2
- Elective-Humanities and Social Studies

*French and English Language Mandatory to Validate the Year

*Mandatory Internship (6 Weeks - Consultant Agencies)

SEMESTER 6

- Architectural Design 6
- Landscape Design 2
- Construction Durable-Construction in Buildings 4
- Context-Based Urban Design 2
- Management of Urban Spaces and Place Making
- Urban Metabolism
- Digital Technology and Applied Mathematics
- Humanities and Social Sciences

*French and English Language Mandatory to Validate the Year

*Mandatory Internship (6 Weeks - Consultant Agencies)

SEMESTER 8

- Urban Project Management
- Smart Cities & Data for Territories
- Environmental Regulations & Circular Economy
- Urban Resilience & Risk Prevention
- Graduation Project 2 (Baccalaureus Track)
- Inclusive Design Approaches
(EIVP de Paris)

*UFE Baccalaureus : Architecture Engineering - 4 Years
"Contextuel Planning Track" (by équivalence)

SEMESTER 10

Internship

- Preparation for the TFE Internship and for Employment
- TFE Internship

(EIVP de Paris/UFE)

EIVP - Engineering Degree - 1 Year



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