

BACHELOR OF MECHANICAL ENGINEERING

School of Engineering

Overview

The bachelor's in mechanical engineering is a 4-year program that awards an Egyptian Engineering degree and a French Master's degree after 1 additional year of study, in partnership with Université de Haute Alsace (UHA). The program is taught in English. Students have the opportunity to engage in semester exchanges and summer internships at any of our partner French universities, or to extend their studies by one year to obtain the master's degree. The bachelor's in mechanical engineering is recognized by the Egyptian and French Ministries of Higher Education and the Egyptian Engineering Syndicate. The French Master's degree in Mechanics and Mechatronics of Vehicles can be conducted either in France or Egypt.

French Partner





Egyptian bachelor degree & French Master degree (+ 1 year)

WHY STUDY MECHANICAL ENGINEERING AT UFE?

- Dual degree: Egyptian bachelor's in 4 years and a French master's in 1 extra year.
- Study Mechatronics, Energy, and Manufacturing in 1 bachelor's degree.
- Eligible for PhD studies worldwide after earning the French master's degree.
- Two summer internships are required.





POSSIBLE CAREERS PATHS

- Mechanical engineer.
- Mechatronics engineer.
- Automotive engineer.
- Aerospace engineer.
- Robotics engineer.
- Energy system engineer.
- · Automation engineer.
- Manufacturing engineer.
- Control and instrumentation engineer.
- Materials engineer.
- Industrial engineer.

STUDY COURSES

EAR 1 - SEMESTER 1	YEAR 1 - SEMESTER 2
athematics 1.	Mathematics 2.
nysical Mechanics.	Chemistry.
ives and Electromagnetism.	Geometrical Optics.
oduction to Programming.	Logic Design.
design.	Information Retrieval Techniques for Engineers.
nch Language.	Professional Project.
lish Language.	Languages Fr & En.
R 2 - SEMESTER 1	YEAR 2 - SEMESTER 2
nical Drawing.	Statistics and Probabilities.
duction to Applied Mathematics.	Structure and Physical Properties of Materials.
ject.	Thermodynamics.
tive 1.	Project.
guages Fr & En.	Elective 2.
hanical Manufacturing.	Dynamics of Systems and Solids.
ss Analysis.	

YEAR 3 - SEMESTER 1	YEAR 3 - SEMESTER 2
Electrical Power Engineering.	Control 1.
Sensors & Measurements.	Thermodynamics 2.
Fluid Mechanics.	Design 1.
Heat Transfer.	Mechanical Manufacturing 2.
Mechanics of Machines.	Production Planning & Maintenance.
Materials Selection.	Languages FR&EN.
Languages Fr & En.	Summer Internship.

YEAR 4 - SEMESTER 1

YEAR 4 - SEMESTER 1	YEAR 4 - SEMESTER 2
Introduction to Mechatronics.	Control 2.
Internal Combustion Engines.	Thermal Power Plants.
Design 2.	Operation Research and Management.
Graduation Project 1.	Graduation Project 2.
Elective 1.	Elective 3.
Elective 2.	Legislation.



APPLY NOW

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