



MASTER'S DEGREE IN MECHANICAL ENGINEERING SPECIALIZATION IN VEHICLE ENGINEERING AND MECHATRONICS

The delocalized Master's degree in Mechanical Engineering, specialized in Vehicle Engineering and Mechatronics (IVeM), is a 1-year international program offered in partnership with Haute Alsace University in France and recognized by the French Ministry of Higher Education. The program is delivered in English and emphasizes practical, hands-on learning, with nearly 50% of the curriculum devoted to applied projects. During the first and second semesters of M2, students undertake a 120-hour project and a six-month internship, which can be completed either in a research laboratory or within a company, in Egypt or abroad.

WHY STUDY THIS MASTER'S PROGRAM?

- Students obtain a degree certified by the French Ministry of Higher Education. While the degree is fully French, travel to France is optional and not required to obtain the diploma.
- Gain interdisciplinary expertise in mechanics, electronics, control systems, and computing to develop intelligent, automated technologies.
- Prepare for careers in high-demand sectors such as automotive, aerospace, robotics, and industrial automation.
- Build a solid foundation for innovation and applied research in emerging technologies.
- Access opportunities for further academic pursuits (PhD) in engineering fields in France or internationally.



Program duration	1 year
European Credits (ECTS)	60
French Partner University	University of Haute Alsace
Faculty within UFE	Engineering and Architecture
Degree type	French Master's degree, recognized by the 47 member countries of the Europe Council
Head of program	Dr. Rania Elanwar / rania.elanwar@ufe.edu.eg

POSSIBLE CAREER PATHS:

-Automotive and aerospace industries
-Oil and gas sector
-Mechanical engineering and industrial manufacturing

-Large corporations or small to medium-sized enterprises (SMEs)
-Engineering, technical, or managerial positions across various industries

PROGRAM CONTENTS:

SEMESTER 1

- Systems study
- Continuum mechanics (Finite elements)
- Composite materials
- Microcontrollers
- Sensors and Actuators II
- Signal treatment
- Electronics and Programming
- Bond graph
- English (French)
- Project (120 hrs)

SEMESTER 2

- 6 month internship in a university, research lab, or a company in Egypt or abroad
- Internship report and defense in French or English

ADMISSIONS CONDITIONS:

- Applicants must hold a Bachelor's degree in Mechanical Engineering, Mechatronics, or a related field, with a strong background in mechanics, materials, and automated systems.
- Direct entry to Master 2 (M2) is possible for candidates with four years of engineering studies, subject to a joint academic evaluation by UFE and UHA for non-UFE graduates.



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