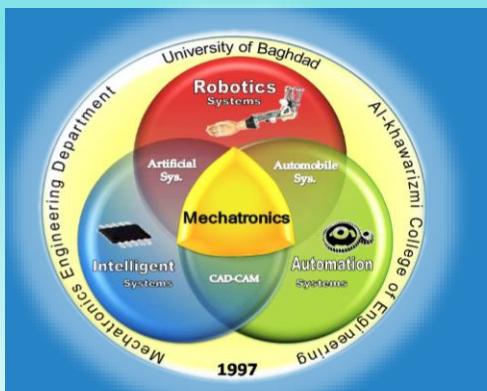


University of Baghdad
Al-Khwarizmi College
of Engineering



Department of Mechatronics



www.kecbu.uobaghdad.edu.iq

Department Lab.s

Robotics and Interfacing Lab. •



Electric and Electronics Lab. •



Hydraulic and Automation Lab. •



Computer and Programming Lab. •



Basic study courses

First stage

Mathematics
Mechanical Engineering
Electrical Circuits
Electronics and its applications
Engineering Drawing
Programming in C++

Second stage

Engineering Mathematics
Strength of Materials and Engineering Materials
Electrical Machines
Heat Transfer and Thermodynamics
Programming in MATLAB
Digital Logic

Third Stage

Microcomputers
Signal Processing
Industrial Automation
Vibrations
Sensors and Measurements
Control Systems

Fourth stage

Computer Aided Design and Manufacturing
Artificial Intelligence
Robotics
Image Processing
System Modeling and Simulation
Biomechanics

Mechatronics@kecbu.uobaghdad.edu.iq

The Study in the Department

The department receives students within the central admission of the Ministry of Higher Education and Scientific Research for the morning study, and the evening study was added to the department to meet the increasing demand for this major. The study continues in the department for four years on the semester system, during which the graduate obtains a bachelor's degree In mechatronics engineering.

Postgraduate Studies (Master's in Mechatronics Engineering) In order to allow graduates to complete postgraduate studies and upgrade their university degrees, the department offers the opportunity to study a master's degree.

Where does a mechatronics engineer work?

Mechatronics engineers can work in all fields of engineering that require advanced techniques in systems design and control. An industrial robot (robot) is an excellent example of mechatronics applications.

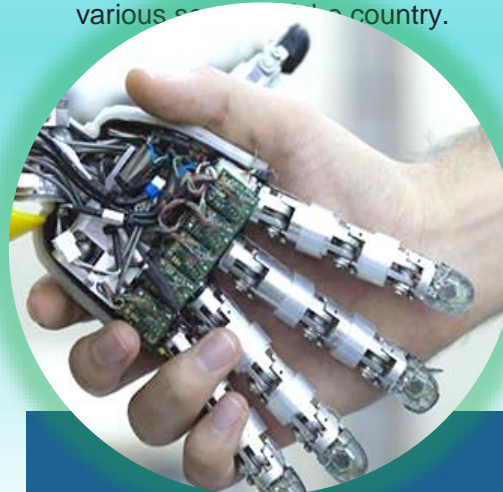
The mechatronics graduate engineer has broad prospects of working in all state ministries such as the Ministry of Electricity, the Ministry of Oil, the Ministry of Industry, the Ministry of Commerce and Communications, Transport and Communications, as well as private sector companies and modern industrial companies.



The Department message:

Advancing the current reality of society and contributing to building the country through lecturers, engineers and scientific research. This is accomplished through:

- Graduating engineers who can work, create and innovate in all the institutions of the country and find solutions to industrial problems in society.
- Create cooperation mechanisms between the department and other ministries in order to find solutions to the problems of those ministries.
- Preparing research that contributes to solving community problems.
- Engineering consultancy work for various sectors in the country.



About the Department

As a result of the great global progress and for the purpose of keeping pace with this progress and rapid development in industry, communication technology, electronic engineering, computer engineering and mechanical engineering, and for the sake of integration between these disciplines, it resulted in the specialty of mechatronics engineering, which represents the integration between these disciplines through engineering processes that include designing and manufacturing smart products and Systems that contain mechanical devices and electrical and electronic circuits, including human robots, mechanisms of computer-controlled machines, microprocessor-based products, and others. The Department of Mechatronics Engineering was opened in the academic year (1997-1998) in the College of Engineering / University of Baghdad, then joined the Al-Khwarizmi College of Engineering, where mechatronics became one of its most prominent departments.