DEPARTMENT OF INDUSTRIAL ENGINEERING

المندسة الصناء

DEPARTMENT OF MECHANICAL AND MAINTENANCE ENGINEERING

قسم هندسة الميكانيك

GJU obji stackil rjedalna University





DEPARTMENT OF
MECHATRONICS AND
ARTIFICIAL INTELLIGENCE
ENGINEERING

قسم هندسة الميكاترونكس والذكاء الاصص

TESTIMONIALS

- "The Department of Industrial Engineering prepares system engineers to manage various working systems in service and manufacturing organizations. It helps engineers become effective change agents and performance managers. The Industrial Engineering Department at the German Jordanian University is one of the best Engineering Departments in Jordan and the area, equipped with the best educators and engineers working hand in hand to always excel to new performance levels".
- Dr. Abdallah Abdallah
- "The new Mechatronics and AI Engineering Program provides students with essential skills required for the digital era and the 4th industrial revolution. Students will be prepared to effectively participate in the rapidly occurring digital transformation in industry and businesses. Engineering applications of big data, AI, and robotics are a major focus in our courses and capstone projects. Our graduates are among the most desired in local and German markets due to the vast number of hard and soft skills we equip them with during their studies."
- Dr. Hisham ElMoaqet

OUR FEATURES

- » State of the art labs and workshops.
- Interdisciplinary educational foundation with a system engineering perspective, steering students to meet local needs.
- > Strong theoretical and practical experience obtained through hands-on learning technologies.
- Faculty members with excellent academic credentials and industrial experience.
- Wide national and international network of academic and industrial partners.
- High employment rate of graduates.



School of
Applied
Technical
Sciences
کلیة العلوم التقنیة التطبیقیة

GERMAN JORDANIAN UNIVERSITY

BACHELOR PROGRAMS

DEPARTMENT OF MECHATRONICS AND ARTIFICIAL INTELLIGENCE ENGINEERING

>> MECHATRONICS AND ARTIFICIAL INTELLIGENCE ENGINEERING 173CH

DEPARTMENT OF INDUSTRIAL ENGINEERING

>> INDUSTRIAL ENGINEERING 169CH

DEPARTMENT OF MECHANICAL AND MAINTENANCE ENGINEERING

>> MECHANICAL AND MAINTENANCE ENGINEERING 174CH

MASTER PROGRAMS

» Master of Science in Engineering Management 34 CH



MECHATRONICS AND ARTIFICIAL INTELLIGENCE ENGINEERING

Job Opportunities

- Software Engineer
- » Electromechanical Engineer
- » Validation Engineer
- » Process Control Engineer

- >> Systems Engineer
- » Data Scientist
- Controls Systems Engineer
- » Interfacing Engineer
- » Simulation Engineer

Basic Sciences, Basic Engineering Math and Mechanics, Basic Electrical and Electronic Circuits, Software Engineering and Artificial Intelligence, Mechatronic Systems Design and Integration, Hydraulic and Pneumatic Systems, Industrial Automation, Industry 4.0 and Internet of Things (IOT), Advanced Control Systems, Robotics, Sensors and Actuators, Modeling of complex systems

- » Computer Aided Math for ME
- Sensors and Actuators Lab
- » Electrical Machines and Control Lab
- Automation and Indutry 4.0 Lab

- » Vibration and Control Lab
- » Hydraulics and Pneumatics Lab
- » Programmable Logic Controllers Lab
- » Microcontroller and IOT Lab

- » Occupational Health and Safety Manager
- » Management, Data, Investment Analyst

Ergonomics, Engineer, Economics, Supply Chain Engineer

Basic Sciences, Engineering Materials, Manufacturing Processes, Production and

Operations Management, Statistics and Quality Engineer, Simulation and Optimization,

INDUSTRIAL ENGINEERING

» Quality Control, Sales Engineer

Job Opportunities

Core Courses

Labs

» Industrial Production Manager

» Computer Aided MATH For IE

Computing Fundamentals Lab

Automation and Industry 4.0 Lab

» Modern Manufacturing Technology Lab

» Materials Science and Engineering Lab

» Instrumentation and Measurements Lab

» Computer Aided Engineering Drawing

» Automation Engineer

- » Project Manager
- » Optimization, Performance Analyst

» Manufacturing Processes Lab

» Operations Research lab

» Quality Enginering Lab

» Simulation Lab

>> Ergonomics Lab General Physics Lab

» Manufacturing Engineer

Job Opportunities

- » Desgin Engineer
- » HVAC Engineer, R&D Engineer

MECHANICAL AND

MAINTENANCE ENGINEERING

- » Power Plant Engineer
- » Measurement Systems Engineer
- » Project Enginee

- » Maintinance engineer
- » Sales Engineer

» Vibration Lab

- » Heat Transfer Engineer
- » Development Engineer

Core Courses

Theory of Machines, Power and Refrigeration, Applied Mechanics, Machine Design, Mechanical Vibrations, HVAC, Internal Combustion Engines, Management and Maintenance Systems, Reliability and Quality Control, Heat Transfer, Fluid Mechanics.

Labs

- » Machine Design Lab
- » pplied Thermal Systems, Thermal-fluids Lab

» Manufacturing Engineer