

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

قسم الهندسة المدنية والبيئية

OUR LABS

- » Electrical Circuits Lab
- » Electrical Machines Lab
- » Highway Lab
- » Geotechnical Engineering Lab
- » Water and Waste Water Treatment Engineering Lab
- » Water Chemistry lab
- » Electric Drives Lab
- » Power System Protection Lab
- » Renewable Energy Lab
- » Energy Lab
- » Modelling and Simulation Lab
- » Power Electronics Lab
- » Hydraulics Lab
- » Air Pollution Control Lab
- » Surveying Lab
- » Engineering Geology Lab
- » Power System Intergation Lab
- » Building Materials Lab
- » Energy Efficiency Lab

OUR FEATURES

- » State of the Art Laboratories and Workshops.
- » Academic Programs Addressing of All Energy, Water, and Environment Challenges in Jordan and the Region.
- » Interlinking Theory with Practice at all Stages of Learning Process.
- » Applied Research in the Area of Energy, Water, and Environment Solutions.
- » Highly Competitive Entrance Exam for Applicants to the Bachelor Programs.
- » Applied Research in the Area of Energy, Water, and Environment Solutions, Environment Solutions.
- » Strong Linkages with Many Industrial Partners in the Area of Renewable Energy, Water, and Environment.
- » Green Technology Solutions for Campus.
- » Market Ready Graduates.

DEPARTMENT OF ENERGY ENGINEERING

قسم هندسة الطاقة



الجامعة الألمانية الأردنية
German Jordanian University

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SNREM

School of
Natural
Resources
Engineering and
Management

كلية هندسة الموارد الطبيعية وإدارتها

GERMAN JORDANIAN UNIVERSITY

BACHELOR PROGRAMS

DEPARTMENT OF ENERGY ENGINEERING

- » Renewable Energy Engineering **180CH**
- » Electrical Power Engineering **180CH**

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

- » Civil Engineering **180CH**
- » Water And Environmental Engineering **180CH**

MASTER PROGRAMS

- » Environmental and Renewable Energy Engineering **34CH**
- » Humanitarian Water, Sanitation and Hygiene (WaSH) **36CH**



RENEWABLE ENERGY ENGINEERING

Job Opportunities

- » Energy Engineer
- » Project Engineer
- » Energy Systems Engineer
- » Green Building Engineer
- » HVAC Engineer
- » Measurement and Verification Engineer
- » Photovoltaic Power Systems Engineer

Core Courses

Solar Energy, Renewable Energy Lab, Energy Efficiency, Management and Laws, Modeling and Simulation Techniques of Energy Systems, Wind Energy Technology, PV Technology, Energy Lab.

ELECTRICAL POWER ENGINEERING

Job Opportunities

- » Power Systems Engineer
- » Power Transmission Engineer
- » Power Generation Engineer
- » Power Distribution Engineer
- » Protection Engineer
- » Automation Engineer
- » Smart Grid Engineer
- » Plant Engineer

Core Courses

Digital electronics, Communication Systems and Networking, Smart-Grid Power Systems, Real Time Computer Control Systems, Electric Drives, Power Systems

CIVIL ENGINEERING

Job Opportunities

- » Structural Design Engineer
- » Site Engineer
- » Highway Engineer
- » Quality Control Engineer
- » Construction and management Engineer
- » Construction Materials and Soil Lab Engineer
- » Geotechnical Engineer
- » Traffic Engineer
- » Bridge Engineer
- » Surveying Engineer
- » Steel Construction Engineer

Core Courses

General Chemistry II, Fluid Mechanics, Mechanics of Materials, Dynamics and Vibration, German V, German VI, Statics, Structural analysis (1), Structural Analysis (2), Building Materials, Reinforced Concrete, Steel Structures, (Contracts, Specifications and Quantity Surveying), Engineering Projects & Construction Management, Surveying, Highway and Traffic Engineering, Pavement Design, Transportation Engineering, Engineering Geology, Geotechnical Engineering, Foundation Engineering, Hydrology, Hydraulics, Water and Wastewater Treatment Engineering, Environmental Engineering

WATER AND ENVIRONMENTAL ENGINEERING

Job Opportunities

- » Water Engineer
- » Water hygiene Engineer
- » Water resources Engineer
- » Wastewater Engineer
- » Water Treatment Engineer
- » Water/Wastewater Plants Design Engineer
- » Drinking Water & Reuse Engineer
- » Environmental Engineer
- » Water Purification Engineer

Core Courses

General Chemistry II, Fluid Mechanics, Mechanics of Materials, Dynamics and Vibration, German V, German VI, Statics, Structural analysis (1), Building Materials, Reinforced Concrete (1), Steel Structures, (Contracts, Specifications and Quantity Surveying), Engineering Projects & Construction Management, Hydraulics, Hydrology, Water Chemistry, Environmental Impact Assessment, Water and Wastewater Treatment Engineering, Water Resources Engineering, Solid Waste Management, Air Pollution Control, Surveying, Highway Engineering, Pavement Design, Engineering Geology, Foundation Engineering, Geotechnical Engineering