

DEPARTMENT OF BIOMEDICAL ENGINEERING

قسم هندسة الطبية الحيوية

DEPARTMENT OF PHARMACEUTICAL AND CHEMICAL ENGINEERING

قسم الهندسة الصيدلانية والكيميائية

TESTIMONIALS

» “Studying Pharmaceutical & Chemical Engineering at the German Jordanian University was such a great and fruitful experience. The course helped me in sharpening my analytical capabilities and equipped me with tools that I used in different fields and industries. The German year as well was a cornerstone in this journey that opened many doors for me worldwide such as earning my master’s degree from the University of Cambridge and doing a research project at NASA. I am grateful to have such an experience to launch my professional career.”
- **Abdelrahman Budair, Student**

» Studying biomedical engineering is one of my greatest choices. I got the opportunity to learn from experienced instructors during lectures and apply what I have learned in laboratories. Every biomedical engineering student favors a specific field in this major and personally, I enjoyed artificial organs, biomaterials and my field training in the field of medical imaging systems. I chose biomedical engineering because I want to have an impact on making a human’s life better or creating an device that can potentially solve major problems.
- **Maral Masarweh, Student**

SAMS

School of
Applied
Medical
Sciences

كلية العلوم الطبية التطبيقية

GERMAN JORDANIAN UNIVERSITY



الجامعة الألمانية الأردنية
German Jordanian University

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BACHELOR PROGRAMS

DEPARTMENT OF PHARMACEUTICAL AND CHEMICAL ENGINEERING

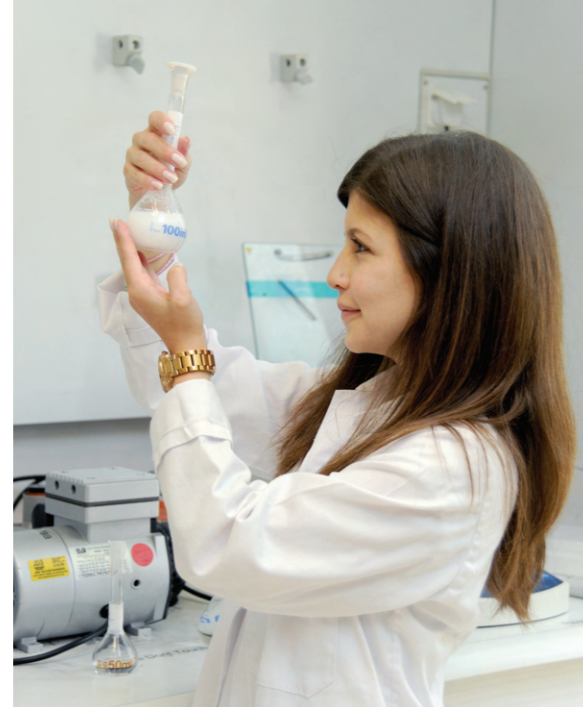
- » PHARMACEUTICAL AND CHEMICAL ENGINEERING 18oCH

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OUR FEATURES

- » State-of-the-Art and fully equipped high standards laboratories and scientific research facilities.
- » Unique integrated programs.
- » Faculty members with excellent international and industrial experience.
- » Market-ready graduates.
- » The Vision Rehabilitation Program bringing together various disciplines, delivered by International experts that help students to understand the needs of people with visual disability in a practical framework.



PHARMACEUTICAL AND CHEMICAL ENGINEERING

Job Opportunities

- » **Positions:** Operation Engineer, Manufacturing Engineer, Process Design Engineer, Safety Engineer, Researcher, Sales Engineer, Marketing Engineer, Project Manager, Consultant, Quality Assurance Engineer, Quality Control Engineer.
- » **Fields/Plants:** Pharmaceuticals, GMP, Validation, Total Quality Management, Biochemical, Chemicals, Refineries, Petrochemical, Oil and Gas, Environmental, Wastewater Treatment, Fertilizers, Phosphates, Potash, Food, Paints, Polymers and Plastics, Paper, Cement, Research and Development

Core Courses

Human Biology, Introduction to Pharmaceutical and Chemical Engineering, Applied Statistics and Probability for Engineers, Principles of Chemical Engineering, Thermodynamics for Pharmaceutical and Chemical Engineering, Fluid Mechanics for Chemical and Medical Engineers, Pharmaceutical Physical Chemistry, Analytical Chemistry, Microbiology, Organic Chemistry, Transport Phenomena, Separation Processes, Chemical Reaction Engineering, Automatic Control Systems for Medical Applications, Chemical Engineering Economics, Pharmaceutical Organic Chemistry, Instrumental Analysis, Pharmaceutical Technology – Liquid Forms, Pharmaceutical Technology – Solid Forms, Biochemistry, Unit Operations and

Industrial Safety, International Internship, Quality Assurance and Process Validation, Hazardous Waste and Risk Management, Medicinal Chemistry, Pharmaceutical Packaging Technology, Pharmaceutical Plant Design, Graduation Project I and II

BIOMEDICAL ENGINEERING

Job Opportunities

- » Hospitals and Medical Clinics
- » Clinical Engineer
- » Biomedical Engineering Industry
- » Artificial Limbs and Prosthetics
- » Maintenance and Sales Engineers for Medical Devices
- » Service Engineer
- » Biomedical Application Engineer
- » R&D Engineer
- » Sales and Marketing Biomedical Engineer

Core Courses

Biomedical Sensors and Transducers, Medical Instrumentation, Biomechanics, Biomaterials, Medical Image Processing and Medical Signal Processing, BioMEMS,

OUR LABS

- » Separation Processes Lab
- » Fluid, Heat and Reaction Engineering Lab
- » General Chemistry lab
- » Analytical Chemistry Lab
- » Instrumental Analysis Lab
- » Pharmaceutical Technology -Liquid Forms Lab
- » Pharmaceutical Technology Solid Forms Lab
- » Microbiology Lab
- » Pharmaceutical Organic Chemistry Lab
- » Pharmaceutical Physical Chemistry Lab
- » Biochemistry Lab
- » Aspen Simulation Lab
- » Research Labs
- » Electronics lab
- » Biosensors lab
- » VTC lab
- » Biochemistry Lab
- » Medical Signal Processing lab
- » Biomaterials lab
- » Anatomy and Physiology lab
- » Medical Instrumentation lab
- » Workshop lab