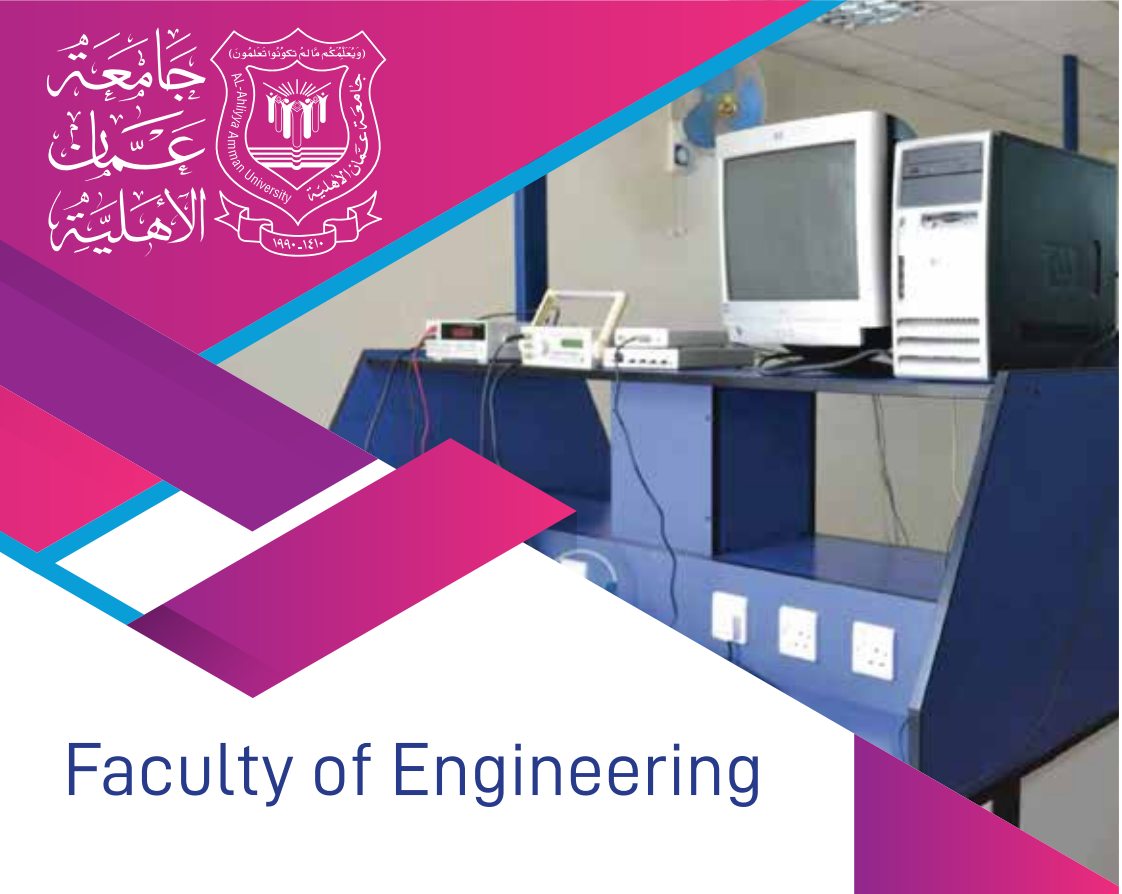

جامعة عمان الأهلية

(ويعلمكم ما لم تكونوا تعلمون)

Al-Ahliyya Amman University

جامعة عمان الأهلية

١٤١٠-١٩٩٠

Faculty of Engineering

Department of Medical Engineering (ME)

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Overview

Medical Engineering Department was founded in 2000 to supply local and regional markets with qualified graduates enable to address global advances and modern developments in Medical Engineering fields. The Department of Medical Engineering at the university is keen to build a generation of engineers who are capable of working with advanced electronics and biomechanics, through the integration of engineering sciences with medical sciences.

The department includes qualified faculty members with various experiences, degrees and ranks, as the department includes one professor, two associate professors, three assistant professors and one lecturer. Graduates who choose Medical Engineering branch, distinguished by its miscellaneous terms, are qualified to harness engineering sciences to find medical solutions that will boost and improve health care provided to the community. The number of admitted students increased gradually to reach about 250 in 2020/2021 academic year. More than 600 students are graduated since the department foundation. According to the department records, the graduates occupy decent positions inside and outside Jordan. Also some of them joined post graduate studies.

Mission

To achieve excellence in its educational program and to afford a supportive milieu of creativity and innovation that would enable the graduates keep up with the technological developments; to provide the required technical services for health sector and encourage scientific research.

Program Educational Objectives (PEOs)

PEO1: Apply modern mathematics, science, engineering, and technology to solve a wide variety of engineering problems related to health and wellbeing.

PEO2: Demonstrate leadership skills, work collaboratively, communicate effectively, and think creatively in the design and analysis of biomedical systems.

PEO3: Integrate actively ethical and social codes, relevant regulations, and safety issues into medical engineering professional careers locally and regionally.

PEO4: Participate in identifying contemporary challenges and/or propose a plan of action to tackle them.

Student Outcomes (SOs)

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Mapping Between PEOs & SOs

PEOs	SOs						
	1	2	3	4	5	6	7
1	■	◘		□		■	■
2	□	□	■	□	■	◘	
3		◘		■	□	□	
4	◘	■	◘	□	◘	◘	■

■ Strongly correlated ◘ Moderately correlated □ Somewhat correlated