



## Yarmouk University

### Hijjawi Faculty for Engineering Technology

## Department of Biomedical Systems and Informatics Engineering

### Bachelor of Biomedical Systems Engineering (BME) Bachelor of Biomedical Informatics Engineering (BMIE)

#### Program Overview

##### Brief introduction

Established in 2007 with the support of the European Union's Tempus Program, the Department of Biomedical Systems and Informatics Engineering at Yarmouk University offers two cutting-edge undergraduate programs: Biomedical Systems Engineering (BME) and Biomedical Informatics Engineering (BMIE). These programs are designed to equip students with the knowledge and skills needed to excel in the rapidly evolving field of biomedical engineering.

## Academic and practical goals

- **PE01:** Graduates will pursue developing their abilities through education and training to obtain a successful career for serving humanity's health and economic sectors with high standards of ethics and professionalism.
- **PE02:** Graduates will have the ability to conduct distinguished scientific research to enrich the scientific community, support the economy, serve the local and international communities, as well as successfully participate in postgraduate studies.
- **PE03:** Graduates will be continuously able to enhance their innovation, creativity, and leadership performance through engagement in fruitful activities within local community.
- **PE04:** Graduates will pursue lifelong learning and will continue improving and developing their knowledge and skills to maintain professional excellence.

## Importance of the program and its role in the job market

The biomedical engineering field is experiencing significant growth, driven by advancements in healthcare technology. Our programs are designed to address this demand by producing highly skilled graduates who are ready to contribute to the development and implementation of innovative medical solutions.

## Career Opportunities

### Available job opportunities

Graduates of our programs can pursue a variety of career paths, including roles in hospitals, medical device companies, research institutions, and healthcare IT firms.

### Sectors where graduates can work

- Healthcare
- Medical Device Manufacturing
- Research and Development
- Healthcare Informatics

### Success stories of graduates

Our alumni have achieved remarkable success in their careers, securing positions in prestigious organizations and making significant contributions to the biomedical field.

# Learning Environment and Facilities

## Laboratories and facilities

Our department boasts six state-of-the-art laboratories, in the fields of medical instrumentations, medical electronics, medical image processing, bioinformatics, biomaterials and biomechanics, operated by a team of four skilled engineers. These facilities provide students with the opportunity to gain hands-on experience and apply their knowledge in a practical setting.

## Overview of the Study Plan

The study plans for both the BME and BMIE programs consist of 167 credit hours, spread over five years. The curriculum includes a mix of core and elective courses, designed to provide a well-rounded education in biomedical engineering.

## Accreditation and Quality

### Academic accreditations

Both the BME and BMIE programs are accredited by the Engineering Accreditation Commission of ABET, ensuring that our graduates meet the highest standards of quality and excellence.

### International recognitions

Our programs have been developed in collaboration with European and Jordanian institutions, ensuring that they meet international standards and prepare students for global career opportunities.



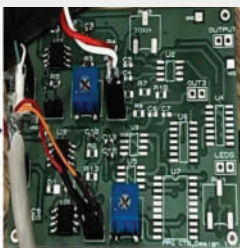
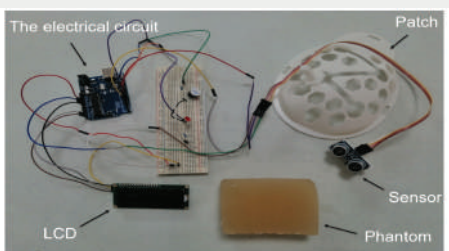


Figure 4: The final result of our project



The electrical circuit

Patch

LCD

Sensor

Phantom



SCAN ME

## Contact Information

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