



Yarmouk University

Hijawi Faculty for Engineering Technology

Master's in Wireless Communication Engineering

Program Overview

The MSc program in Wireless Communication Engineering at Yarmouk University was established in 2002 and is designed to equip students with advanced knowledge and skills in the field of wireless communication technologies. The program emphasizes both theoretical and practical aspects, preparing graduates for careers in academia, research, and the telecommunications industry. The program offers both thesis and non-thesis tracks. The thesis track focuses on research and is ideal for students interested in pursuing a PhD or a research-oriented career. The non-thesis track includes additional coursework and is geared towards students seeking advanced technical knowledge for professional practice. Applicants should have a bachelor's degree with a strong academic record in telecommunications engineering, computer engineering, Electronics Engineering, or a

related field. A strong academic record is required in the undergraduate program. Furthermore, for all applicants, proof of English language proficiency (e.g., TOEFL, IELTS) is a must.

Program Importance

The MSc program in Wireless Communications at Yarmouk University holds significant importance as it helps for advancing knowledge, fostering innovation, and preparing skilled professionals who can contribute to the ever-evolving field of telecommunications. This makes it an asset for students, the university, and the broader community.

Program Objectives

The MSc program in Wireless Communications at Yarmouk University aims to achieve the following objectives:

1. Provide Advanced Knowledge.
2. Enhance Research and Practical Skills.
3. Promote Industry Collaboration.
4. Prepare for Advanced Careers.
5. Foster Innovation and Problem-Solving.
6. Promote Ethical and Professional Standards.

Targeted Groups and Accepted Majors

Targeted Groups:

1. Recent Graduates.
2. Industry Professionals.
3. International Students.

Accepted Majors:

1. Telecommunications Engineering.
2. Computer Engineering.
3. Electronics Engineering.
4. Related Fields: Applicants with degrees in closely related disciplines, provided they have a strong foundation in the principles of wireless communications, signal processing, and telecommunications.

Job Areas

Graduates of the MSc program in Wireless Communications at Yarmouk University can pursue a wide range of job opportunities in various sectors, such as

1. Telecommunications Industry: Network Engineer, Radio frequency (RF) Engineer, and Systems Engineer.
2. Information Technology (IT) and Networking: Network Administrator, Wireless Network Engineer, and IT Consultant.
3. Research and Development (R&D): Research Scientist, R&D Engineer, and Technical Research Analyst.
4. Academia: University Lecturer/Professor and Pursue PhD degree.

Credit Hours and Tuition Fees

The MSc program in Wireless Communications at Yarmouk University consists of 33 Credit Hours. The price of one CH is 80 JD for Jordanian students and 300 USD for Non- Jordanian students.

Study Plan Overview

The MSc program in Wireless Communications at Yarmouk University is designed to provide a comprehensive education that combines advanced theoretical knowledge with practical skills. The study plan typically spans two years and includes a mix of core courses, electives, a thesis or project as follows:




- Core Courses: Mandatory courses that provide foundational knowledge in wireless communications. These courses include Advanced Digital Communications, Mobile Communication Systems, Random Processes, Antennas and Wave Propagation, Advanced Wireless Networks, Information Theory and Coding, and Information Theory and Coding.
- Elective Courses: Allow students to tailor their education to specific interests and career goals. These courses include Microwave Engineering, Digital Signal Processing, Engineering Mathematics, Detection and Estimation Theory, and Special Topics in Wireless Communications.

- Comprehensive Exam or Project for non-thesis track: Comprehensive exam is designed to ensure that students have a thorough and integrated understanding of their field before their graduation. Project, on the other hand, allows students to apply their knowledge to a real-world problem.
- Thesis Defense for thesis track: An assessment to ensure students have a thorough understanding of their field and can effectively communicate their research findings.



Contact Information

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