



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Pharmacy Department**

PHAR771 Principles Of Experimental Therapeutics

Second Semester 2023-2024

**Course Catalog**

3 Credit Hours. This course introduces key principles, trends and methods for research in experimental therapeutics by application of pharmacological principles to the development of new therapies. The format of this course is designed to challenge students to critically think about the experimental and clinical problems and help them identify approaches toward solving these problems. Topics will cover current approaches for treatment of human diseases, risk assessment and management, biomarker selection, surrogate endpoints, drug discovery using nucleic acids, stem cells and bioengineered tissues, drug adverse effects and interaction, and design of pre-clinical and clinical studies for development of novel therapies. The course will discuss principles in developing animal models of human diseases using drugs, diets, devices and genetic technologies as examples.

**Teaching Method:** On Campus

**Instructor**

Name	Dr. Belal Al-Husein
Office Location	M5 L-4
Office Hours	
Email	belalhusein@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Sun, Tue, Thu : 12:30 - 13:30  
Room: قاعة الكندي/صيدلة

**Relationship to Program Student Outcomes (Out of 100%)**

PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1

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