



In the name of GOD

Immunology Department, School of **Pharmacy**, Iran University of Medical Sciences
First Semester of 1403 (2024-2025)

Head of Department: Dr. Falak

Course Coordinator: Dr. Khoshmirsafa

Theoretical Immunology Course (credit 3)/Pharmacy students

Schedule Time: **Wednesday, 8-10 & 10-12**

	Date		Title	Teacher
Part 1: Basic Immunology				
1	12-Feb-2025	8-10	Introduction to the Immune System: Innate and Adaptive immunity	Dr. Falak
2	1403/11/24	10-12	Cells and Tissues of the Immune System	Dr. Mojtabavi
3	19-Feb-2025	8-10	Antigens & Antibodies	Dr. Falak
4	1403/12/01	10-12	Antigen-Antibody reactions and their application in the diagnosis of diseases	Dr. Khoshmirsafa
5	26-Feb-2025	8-10	Innate Immunity	Dr. Delbandi
6	1403/12/08	10-12	Major Histocompatibility Complex molecules and Antigen Presentation to T cells	Dr. Khoshmirsafa
7	05-Mar-2025	8-10	B cell Biology & function	Dr. Delbandi
8	1403/12/15	10-12	T cell Biology & Function	Dr. Safari
9	12-Mar-2025	8-10	The Complement System	Dr. Assarehzadegan
Midterm				
10	12-Mar-2025	10-12	Immunity at Epithelial Barriers and in Immune Privileged Tissues	Dr. Jazayeri
11	09-Apr-2025	8-10	Immunologic Tolerance & Autoimmunity	Dr. Mojtabavi
Part 2: Clinical Immunology				
12	09-Apr-2025	10-12	Immunity to Microbes	Dr. Falak
13	16-Apr-2025	8-10	Monoclonal and Cytokine Therapy	Dr. Mojtabavi
14	1404/01/27	10-12	Hypersensitivity Type I and Allergy	Dr. Assarehzadegan

15	23-Apr-2025	8-10	Hypersensitivity Disorders (II,III, IV)	Dr. Assarehzadegan
16	1404/02/03	10-12	Immunity to Tumors	Dr. Safari
17	30-Apr-2025	8-10	Vaccine	Dr. Jazayeri
18	1404/02/10	10-12	Immunoematology	Dr. Safari
19	07-May-2025	8-10	Transplantation Immunology	Dr. Jazayeri
20	1404/02/17	10-12	Congenital Immunodeficiency	Dr. Khoshmirsafa
21	14-May-2025	8-10	Acquired Immunodeficiency	Dr. Khoshmirsafa
	1404/02/24			
			Final Exam	

References:

1. Basic Immunology: Functions and Disorders of the Immune System, 6th e. 2019 by Abul K. Abbas and Andrew H. H. Lichtman

Lab Course Plan

2. Cellular and Molecular Immunology, 9th e. 2018 by Abul K. Abbas and Andrew H. H. Lichtman

- ✓ Student assessment method:
 - Multi-choice exam.
 - Practice

Practical Immunology Course

Session	Date		Title	Instructors
1	23-Apr-2025 1404/02/03	13-15	Agglutination reactions (application and interpretation of the test)	Dr. Falak/ Dr. Najafi
2	30-Apr-2025 1404/02/10	13-15	Hemagglutination reactions (application and interpretation of the test)	Dr. Khoshmirsafa/Dr. Mojtabavi/ Mrs.Baghenejad
3	07-May-2025 1404/02/17	13-15	Precipitation reaction (application and interpretation of the test)	Dr. Delbandi/ Mr. Abdian
4	07-May-2025 1404/02/17	13-15	Skin prick test (SPT) and PPD test	Dr. Assarehzadegan/ Mr.Abdian
5	14-May-2025 1404/02/24	13-15	Immunofluorescence and flow cytometry	Dr. Jazayeri/ Mrs Malekpour
6	14-May-2025 1404/02/24	13-15	Labeled immunoassay (ELISA and chemiluminescence)	Dr. Safari/ Mrs.Malekpour
Exam				

References:

**Clinical Immunology and Serology: A Laboratory Perspective. 4th e. 2017.
By Christine Dorresteyn Stevens; Linda E Miller**

- ✓ **Student assessment method:**
 - **Multi-choice exam.**
 - **Practice**