

In the name of Allah

Medical Immunology Lesson plans

Education year: 2025-2026 or 1404-1405 **Semester:** First
Lesson name: Medical Immunology **Educational department:** Medical Immunology
Lesson type: Basic **Prerequisite lessons:** None
Field: Medicine **Step:** Basic Science
Number of students: 60 **Theoretical/Practical credit:** 1.76 (Theoretical) & 0.24 (Practical)
In charge professor: Dr. Mohammad Mahdi Mohammadi
Class number: (Theoretical) Pardis in “Yas” Block - **(Practical)** Afzali Pour Faculty of Medicine, in Immunology laboratory
Class time: (Theoretical) Monday: 14-16 - **(Practical)** Saturdays, 12:00-14:00, Tuesdays 8:00-10:00 & Wednesdays 10:00-12:00

Session number	Theoretical Topics	Gregorian Date	Teachers' name	Evaluation method	Teaching method
		Shamsi Date			
1	Introduction to the Immune System Basic Concepts & Components of the Immune System	2025/10/13	Dr. Mahmoodi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/7/21			
2	Introduction to Antigen Recognition Hematopoiesis	2025/10/20	Dr. Nosratabadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/7/28			
3	Antigens & Antibody Structure Antigen & Antibody Interaction	2025/10/27	Dr. Nosratabadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/5			
4	Antibody Diversity	2025/11/3	Dr. Nosratabadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/12			
5	Constitutive Defenses Including Complement	2025/11/10	Dr. Langroudi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/19			
6	Phagocytes Killing in the Immune System Inflammation	2025/11/17	Dr. Langroudi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/26			
7	Organs & Tissues of the Immune System B-Cell Development- A Review	2025/12/1	Dr. Sedghi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/9/10			
8	Major Histocompatibility Complex Antigen Processing & Presentation	2025/12/8	Dr. Sedghi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/9/17			
9	The T-Cell Receptor Review of Antigen Recognition Lymphocyte Activation	2025/12/15	Dr. Jafarzadeh	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/9/24			
10	T-Cell Development T-Cell Interactions T-Cell Help Immunologic Memory & Homeostasis Cytokines in the Immune System	2025/12/22	Dr. Jafarzadeh	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/10/1			
11	Regulation of the Immune System Brief Review of Immune Physiology	2025/12/29	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/10/8			
12	Infections & vaccines	2026/1/5	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/10/15			
References		Immunology for medical students (Helbert - Nairn) 2017 Basic Immunology by: Abbas, Lichtman, Pillai (6th edition, 2020)			

Session number	Practical Topics	Gregorian Date	Teachers' name	Evaluation method	Teaching method
		Shamsi Date			
1	Introduction to Immunoserology, Ag-Ab interactions	2025/10/21	Dr. Sedghi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/10/22			
		2025/10/25			
2	Blood grouping (ABO, Rh)	1404/7/29	Dr. Jafarzadeh	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/7/30			
		1404/8/3			
		2025/10/28			
3	Cross match, Direct/Indirect Coombs	2025/10/29	Dr. Jafarzadeh	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/11/1			
		1404/8/6			
		1404/8/7			
4	CRP, RF, Anti-CCP Antibodies	1404/8/10	Dr. Mahmoodi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/11/4			
		2025/11/5			
		2025/11/8			
5	RPR & VDRL, Antiphospholipid Antibodies	1404/8/13	Dr. Langroudi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/14			
		1404/8/17			
		2025/11/11			
6	Wright (Slide, Tube), Coombs Wright & 2ME	2025/11/12	Dr. Nosratabadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/11/15			
		1404/8/20			
		1404/8/21			
7	ELISA Technique	1404/8/24	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/11/18			
		2025/11/19			
		2025/11/22			
8	Precipitation, Ouchterlony, SRID	1404/8/27	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/8/28			
		1404/9/1			
		2025/11/25			
References	Pre-Lab P.P.T. Slides	2025/11/26	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/11/29			
		1404/9/4			
		1404/9/5			
		1404/9/8	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/12/2			
		2025/12/3			
		2025/12/6			
		1404/9/11	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		1404/9/12			
		1404/9/15			
		2025/12/9			
		2025/12/10	Dr. Mohammadi	Practice Reports Lab attendance written exam	lecture using whiteboard and PowerPoints questions and answers and Discussion
		2025/12/13			
		1404/9/18			
		1404/9/19			
		1404/9/22			