

Course plan

Year: 2025	Semester: ☒ First ☐ Second ☐ Summer	Number of students: 7
Major: General Medicine	☒ Basic sciences, ☐ Physiopathology	Department: Immunology
Course Title: Practical Medical Immunology	☐ Theoretical, ☒ Practical	Credit: Code N.: 232
Prerequisite:	Day & Time: Monday & 8-10	Course type:
Instructor: DR. Pordel	Office address:	Tel: 09171747335
Email: safoora.pordel@gmail.com	Response Hours and Days:	Student representative name and mobile number:

Main objective:

- . Performing various immunological and serological tests
- . Familiarizing medical students with how to perform immunological and serological diagnostic methods and their application in diagnosing various diseases
- . How to analyze immunological and serological tests in terms of positivity and negativity

- . Students will be introduced to serological methods and will be informed about the safety precautions that must be observed when attending the immunology and serology laboratory.
- . Students will also be familiar with how to write a test report.
- . Students will learn how to perform the C-reactive Protein (CRP) test and perform this test in the laboratory in a group format. They will also learn about the applications and interpretation of this test. In addition, they will learn about the Erythrocyte sedimentation rate (ESR) test and its applications and interpretation.
- . Students will learn about the Rheumatoid arthritis latex (RA-latex) test, its applications and interpretation, as well as its false positives and negatives.
- . Students will learn about the ELISA test and its clinical value and its false positives and negatives.
- . Students will learn about the Anti-streptolysin O (ASO) test, its clinical value and its false positives and negatives. Also in The laboratory will perform this test in a group format.
- . Students will be introduced to how to perform direct and indirect ABO grouping tests and their applications, familiar with the Rh-du test and its application in blood transfusion. They will also perform direct ABO grouping in the laboratory in a group format.
- Students will be introduced to how to perform crossmatch (blood group compatibility) tests and their interpretation and application.

References (Text books):

- 1- -The book Laboratory Methods in Immunology, written by Dr. Mazdak Ganjali Khani Hakemi, Jame'e Nagar Publication, 2014
- 2- - Recent, reputable articles

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)

ASSESSMENT TOOLS	From
Assignments	2
Quiz	-
Presence in online courses	-
Midterm Exam	-
Final Exam (Written exam)	18
TOTAL MARKS	20

Students responsibilities:

- 1- Mobile phones must be turned off during class or exams.
- 2- Attending class on time
- 3- It is necessary for the student to attend all class hours. Unexcused absence during the course will result in a grade deduction.

Discipline and educational rules:

- 1- It is applied according to the regulations of the educational regulations.

Mid exam date:**Final exam date:**

Row	date	Time	Topic	Professor	References	Chapter	Pages
1	October/27	8-10	History of Immunology, Introduction to the Components of the Immune System, Introduction and Comparison of innate and specific immunology	Dr.Pordel			
2	November/03	8-10	Organs and Circulation of Immune Cells, Types of Immune Cells, Types of Primary and Secondary Lymphatic Organs, Circulation of Lymphocytes in the Body.	Dr.Pordel			
3	November/10	8-10	Performing the Rheumatoid arthritis latex (RA-latex) test, learning about its uses and interpretation, as well as its false positives and negatives.	Dr.Pordel			
4	November/17	8-10	Performing the Wright test and knowing its applications, interpreting the Cambs-Wright and 2-Mercaptoethanol (2-ME) tests	Dr.Pordel			
5	November/24	8-10	Performing the ELISA test and awareness of its clinical value and false positives and negatives	Dr.Pordel			
6	December/01	8-10	Performing the Anti-streptolysin O (ASO) test and being aware of its clinical value and false positive and negative cases	Dr.Pordel			
7	December/08	8-10	Performing direct and indirect grouping tests (ABO system and familiarity with their use, familiarity with Rh-du test and awareness of its use in blood transfusion)	Dr.Pordel			
8	December/15	8-102	Performing crossmatch tests (blood group compatibility) and familiarizing yourself with its interpretation and application	Dr.Pordel			