



Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name

Course number

MDCN2314

Faculty

Department

Course type

College Needs

Course level

Credit hours (theoretical)

Credit hours (practical)

Course Prerequisites

Course Objectives

- 1 Understand the fundamental principles of immunology and their relevance to clinical practice.
- 2 Develop skills in the interpretation of immunological laboratory tests and their clinical implications.
- 3 Apply knowledge of immunological mechanisms to diagnose and manage immunological disorders.

Intended Learning Outcomes

Knowledge and Understanding	 Understand the basic components and functions of the immune system and their clinical significance
	 Comprehend the pathophysiology of common immunological disorders and their clinical manifestations
	 Gain knowledge of immunotherapeutic approaches, including vaccinations, immunosuppressive therapy, and targeted immunomodulatory agents.
Intellectual Skills	 Analyze clinical scenarios and apply immunological concepts to formulate accurate diagnoses and treatment plans.
	 Critically evaluate scientific literature and research findings in the field of clinical immunology.
	 Apply critical thinking skills to interpret immunological laboratory data and correlate them with clinical presentations
Professional Skills	 Apply evidence-based approaches to diagnose and manage immunological disorders in clinical settings
	 Communicate effectively with patients, colleagues, and interdisciplinary teams regarding immunological conditions and treatment options

Course Contents

- 1 Introduction to Immunology
- 2 Immunological Techniques and Tools
- 3 Innate Immunity
- 4 Adaptive Immunity
- 5 Antigen Recognition and Processing
- 6 Antibody Structure and Function
- 7 Cell-Mediated Immunity
- 8 Immunological Disorders and Hypersensitivity
- 9 _ Vaccines and Immunization
- 10 Transplantation Immunology

Teaching and Learning Methods

- 1 Lectures
- 2 Interactive Discussions
- 3 Small Group Activities
- 4 Online Resources and Virtual Tools
- 5 Self-Directed Study

Students Assessment

Assessment Method	<u>TIME</u>	<u>MARKS</u>
Midterm		30
Quizes		30
Final examination		40

Books and References

Recommended books	Basic Immunology: Functions and Disorders of the Immune System" by Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai
	Janeways Immunobiology" by Kenneth Murphy, Paul Travers, Mark Walport