

Courses Description

College: Medicine

Department:

Couse ID: 111501202 **Description:** General Pathology (1)

Full Course Description: General Pathology: this is going to be covered in this course. It deals with disease processes in general & there will be a description of the molecular, morphological, ultrastructural, cellular & tissue reactions to different injurious agents and environmental stress. □

Pathology is the study of the causes and effects of disease or injury. It addresses components of disease: causes, mechanisms of development (pathogenesis), structural alterations of cells (morphologic changes), and the consequences of changes (clinical manifestations). It deals with incorporating a wide range of biology research fields and medical practices, so when used in the context of modern medical treatment, the term is often used in a more narrow fashion to refer to processes and tests which fall within the contemporary medical field of "general pathology," an area which includes a number of distinct but inter-related medical specialties that diagnose disease, mostly through analysis of tissue, cell, and body fluid samples. Pathology may also refer to the predicted or actual progression of particular diseases (as in the statement "the many different forms of cancer have diverse pathologies "in addition to genetic study related to cancer, staging, grading, outcome, survival, and prognosis and the great impact of those values and factors on the modality of treatment and therapy that should be administered to the patient. In common medical practice, general pathology is mostly concerned with analyzing known clinical abnormalities that are markers or precursors for both infectious and non-infectious disease and is conducted by experts in one of two major specialties, anatomical pathology and clinical pathology. In General pathology, we try to focus on the following topics and chapters, and we are concerned with the most important aspect of pathology that should be covered and memorized by our students in second-year medical college.

Couse ID: 111501204 **Description:** General Microbiology

Full Course Description: This course is an introductory course intended to introduce undergraduate medical students to a variety of subjects in medical microbiology. The course will provide an introduction to the basic principles and application relevance of clinical disease for students who are in preparation for physicians. The content of this rigorous course covers all biology of bacteria, viruses, fungi, parasites, and other pathogens related with infectious diseases in humans. □

The course provides the second-year medical student with the basic knowledge as well as the practical skills in medical microbiology. In addition to the introduction to the basic biology of micro- organisms of medical importance, interaction of these micro-organisms with humans is studied as related to the pathogenesis and management and control of infectious diseases. □

To achieve the maximum benefit of this course and to develop both informatic and diagnostic skills in microbiology, including the practical application and interpretation of laboratory tests for the diagnosis of infectious diseases, hard work and appropriate methods of learning are the keys to that target.

Courses Description

College: Medicine

Department:

Couse ID: 111501205 **Description:** The Respiratory System

Full Course Description: The respiratory module is a five-credit hour course with around 51 lectures and 10 practical labs included. This course integrates all basic science disciplines in one system-based course to discuss respiratory system-related topics. Each of the basic science departments is incorporated into an integrated body of knowledge covering anatomy, physiology, pharmacology, pathology, biochemistry, and microbiology. □
The goals of this course will be achieved via lectures and relevant laboratory practical sessions. More specifically, respiratory system (RS)-related topics will be covered at first to provide basic knowledge and understanding of the structure, the function of the respiratory system, the biochemical basis of its function, as well as the pathological basis of respiratory disorders in the lungs and airways. During the course and whenever relevant, the students are exposed to clinical problems and cases to emphasize the explanations of symptoms, signs, investigations, and forms of treatments. Practical sessions are mostly planned as stations to allow students to expose their knowledge for discussion and confirm concepts learned in lectures. Research ideas are also included to emphasize social responsibility, evidence-based medicine, and innovative thinking.

Couse ID: 111501208 **Description:** Immunology

Full Course Description: The course Immunology is designed to provide a basis of terminology relevant to the basic concepts of immunology. It commences with the important components (cells, tissues, antibodies, immunoglobulin) involved in host defense against infectious agents. Introductory lectures serve to describe and differentiate between natural defense (innate) mechanisms and adaptive immunity mediated by functional B and T lymphocytes and their products. Subsequently, cellular interactions, especially the differentiation of helper T cell subsets and the production of relevant cytokines, will be described. This will include the mechanisms of T-cell activation and regulation. Finally, clinical immunology will be discussed: autoimmunity and autoimmune diseases; hypersensitivity reactions, including atopic disorders and asthma; mechanisms of transplant rejection; and immunodeficiency disorders.

Couse ID: 111501302 **Description:** The Digestive System

Full Course Description: The Gastrointestinal tract (GIT) System is an intensive, multidisciplinary six-credit-hour course with 58 lectures included. This course aims to cover all the clinically relevant and significant aspects of the gastrointestinal system and provide the fundamental concepts in several GIT-related topics. □
The students will be introduced to anatomy, histology, physiology, pathology, biochemistry, pharmacology, and microbiology of the GIT tract. Theoretical and practical sessions will be taught with an integrative approach. This course also includes clinical lectures and scenarios with questions and discussions, enabling the students to integrate the basic sciences and clinical knowledge, understand common clinical problems, and suggest proper therapeutic management for each. Finally, the students will be encouraged to review up-to-date, evidence-based research conducted in the gastrointestinal field.

Couse ID: 161501402 **Description:** Forensic Medicine and Toxicology (1)

Full Course Description: This course covers topics in legal aspects in medical practice, medico-legal accidents, medico-legal death, medico-legal responsibilities as well as criminal investigations and methods of identification of the dead and the alive through two weeks of programmed clinical training in the clinic, postmortem rooms and the court, lectures and seminars. It also covers occupational, agricultural, industrial and medical poisoning.

Couse ID: 1815011304 **Description:** The Genitourinary System

Full Course Description: The Genitourinary System is an intensive multidisciplinary 6 credit hour course designed to provide students the basic sciences and clinical framework for topics in genitourinary system. The course is designed to assist the student in integrating the different disciplines' lectures and practicals in each system including anatomy, physiology, pathology, microbiology, pharmacology, biochemistry, and community medicine.