**Course Description Form**

|  |
| --- |
| 1. Course Name:
 |
| Pathology |
| 1. Course Code:
 |
| **WBM-22-06** |
| 1. Semester / Year: 2024
 |
| Semester |
| 1. Description Preparation Date:
 |
| 2024-03-19 |
| 1. Available Attendance Forms:
 |
| presence in the classroom |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 30 Hours / 2Units |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Ali Kareem MohsinEmail: Ali.k@uowa.ed.iq |
| 1. Course Objectives
 |
| **Course Objectives** | * Pathology is the study of all structural and functional abnormalities (at the level of cells, tissues, organs and body fluids) that take place as a result of a disease.
 |
| 1. Teaching and Learning Strategies
 |
| **Strategy** | •The objectives of this course include teaching the student’s general pathology, enabling them to distinguish between various structural and functional abnormalities. |
| 1. Course Structure
 |
| **Week** | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1 | 2 | Introduction to the pathology | Basic terminology in Pathology, Epidemiology, Etiology, Pathogenesis, Morphologic changes and Clinical features (signs and symptoms). | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 2 | 2 | Diagnostic techniques used in pathology:  | Histopathology, Cytopathology, Hematopathology, Immunohistochemistry, Microbiological examination, Biochemical examination, Cytogenetics, Molecular techniques, Autopsy, Biopsy and Types of Biopsies | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 3 | 2 | Cell Injury and Cell Death | Causes of Cell Injury, Reversible Cell Injury, Cell Death, Necrosis, Apoptosis, Other Pathways of Cell Death, Mechanisms of Cell Injury and Death. | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 4 | 2 | Inflammation | Causes of Inflammation, Sequence of Events in Inflammation, Features of Acute and Chronic Inflammation, Radiation cell damage | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 5 | 2 | Tissue Repair | Angiogenesis, Clinicopathologic Features of Tissue Repair | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 6 | 2 | Environmental and Nutritional Diseases: | Health Effects of Climate Change ,Toxicity of Chemical and Physical Agents - Environmental Pollution Air Pollution ,Metals as Environmental Pollutants Industrial and Agricultural -Exposures Effects of Tobacco Effects of Alcohol, Nutritional Diseases, Malnutrition, Vitamin Deficiencies, Diet and Systemic Diseases | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 7 | 2 | Benign; malignant tumors and carcinogen  | Benign; malignant tumors and carcinogen, Local symptoms, Systemic symptoms, Metastasis, Causes of cancers, Diagnosis of the cancer. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 8 | 2 | Hemodynamic dysfunctions:  | Overview of Hemorrhage, Conditions that can cause bleeding, symptoms of bleeding - Overview Hyperemia, Types of hyperemia Causes of hyperemia, symptoms of hyperemia, Definition of the Infarction, Anemic infarcts, Hemorrhagic infarcts, Overview of the shock, causes of shock, Pathogenesis of Septic Shock, Stages of Shock. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 9 | 2 | Hemodynamic dysfunctions:  | Thrombosis, Definition, Major factors in pathophysiology of thrombus and Origin of Thrombi at Different Sites -Embolism, Definition and Types, etiology, pathogenesis - Edemas, Definition, Clinical classification of oedema, Mechanism of oedema  | Lectures presented in PDF formatAltas | Daily exams + homework assignments + monthly |
| 10 | 2 | Pulmonary Infection: | Tuberculosis (TB): Definition, Incidence, Major factors, HIV-associated Tuberculosis, Diagnosis and treatment – Pneumonia, Definition, causes, Diagnosis and treatment | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 11 | 2 | Disorders of the Upper Respiratory | : cute rhinitis Definition, causes and pathogenesis- Sinusitis Definition, causes and pathogenesis, Diagnosis - Laryngitis Definition, causes and pathogenesis, Diagnosis- A cute epiglottitis Definition, causes, pathogenesis and Diagnosis | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 12 | 2 | Chronic Obstructive Pulmonary Disease (COPD): | Chronic bronchitis, etiopathogenesis and clinical features- Emphysema, Classification, Clinical Features. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 13 | 2 | Stem Cells | Sources of stem cells, Classification of stem cells on the basis of potency | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 14 | 2 | Ischemic Heart Disease (IHD), | Ischemic Heart Disease (IHD), Definition, etiopathogenesis and effects of myocardial Ischemic, Hypertensive heart disease, Definition, etiopathogenesis and Rheumatic Fever, Incidence, etiopathogenesis | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 15 | 2 | The Gastrointestinal Tract: | Congenital anomalies, Definition, etiopathogenesis- Muscular Dysfunctions, Definition, etiology and pathogenesis | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 1. Course Evaluation
 |
|  Daily exams with practical and scientific questions. ‏ Participation scores for difficult competition questions among students Establishing grades for environmental duties and the reports assigned to them Semester exams for the curriculum, in addition to the mid-year exam and final exam |
| 1. Learning and Teaching Resources
 |
| Required textbooks (curricular books, if any) | Robbins Basic Pathology (Vinay Kumar, Abul K. Abbas, Jon C. Aster) |
| Main references (sources) | Robbins essential pathology 2021 (Vinay kumar, Abul abbas some other blokes) |
| Recommended books and references (scientific journals, reports...) | 2-Robbins essential pathology 2021 (Vinay kumar, Abul abbas some other blokes) (z-lib.org) |