

# Courses Description - 4<sup>th</sup> Year (New Study Plan)



**Dean Of  
Faculty Of Medicine**

**Deputy Dean For  
Scientific Affairs**

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## **1<sup>st</sup> Course: Gastrointestinal Diseases (Internal Medicine 1)**

### **Course Title And Code:**

**Gastrointestinal Diseases (Internal Medicine 1).**

### **Credit Hours:**

**2 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Understand the pathologies of common gastrointestinal diseases, manifestations, differential diagnosis, investigation and how to treat.**
- 2- Acquire the skills that enables him to examine the patient clinically and help him to diagnose various gastrointestinal diseases.**
- 3- Think logically using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

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| <ul style="list-style-type: none"><li>• <b>Bases Of Clinical Gastrointestinal Examination.</b></li><li>• <b>Essential Gastrointestinal Diagnostic Tests.</b></li><li>• <b>Gastrointestinal Endoscopy.</b></li><li>• <b>Abdominal Echography.</b></li><li>• <b>Esophageal Manometers.</b></li><li>• <b>Endoscopic Retrograde.</b></li><li>• <b>Cholangiopancreatography (ERCP).</b></li><li>• <b>Endoscopic Ultrasound.</b></li></ul> | <ul style="list-style-type: none"><li>• <b>Magnetic Resonance Cholangiopancreatography.</b></li><li>• <b>Symptoms And Signs In Gastrointestinal Diseases.</b></li><li>• <b>Diseases Of The Mouth And Salivary Glands.</b></li><li>• <b>Diseases Of The Esophagus.</b></li><li>• <b>Diseases Of The Stomach And Duodenum.</b></li><li>• <b>Diseases Of The Small Intestine.</b></li></ul> |
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- **Colon And Rectum Diseases.**
- **Diseases Of The Peritoneal Cavity.**
- **Diseases Of The Pancreas.**
- **Clinical Examination Of The Abdomen For Liver And Biliary Diseases.**
- **Investigation Of Liver And Hepatobiliary Diseases.**
- **Symptoms And Signs In Liver Diseases.**
- **Cirrhosis.**
- **Portal Hypertension.**
- **Infections And The Liver.**
- **Alcoholic Liver Disease.**
- **Non-Alcoholic Fatty Liver Disease.**
- **Autoimmune Liver And Biliary Diseases.**
- **Liver Tumors.**
- **Drugs And The Liver.**
- **Inherited Liver Diseases.**
- **Vascular Liver Diseases.**
- **Cholestasis And Biliary Diseases.**

**Educational Outputs The Student Should Acquire:**

- 1- **Knowing and understanding of course topics.**
- 2- **Clinical applications.**
- 3- **Learning to take the clinical history and getting information.**
- 4- **Developing clinical judgment- communication skills.**
- 5- **Ability to analyze and manage data.**
- 6- **Professional ethics.**

**Teaching & Training Methods:**

- 1- **Theoretical course.**
- 2- **Clinical training.**
- 3- **Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**

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## **2<sup>nd</sup> Course: Endocrinology And Nutrition (Internal Medicine 2)**

### **Course Title And Code:**

**Endocrinology And Nutrition (Internal Medicine 2).**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able:**

- 1- To understand the pathologies of common Endocrine diseases , manifestations , differential diagnosis , investigation and how to treat.**
- 2- To acquire the skills that enable him to the clinical approach of the patient and help him to diagnose various Endocrine diseases.**
- 3- To think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

#### **Endocrinology:**

- Bases Of Clinical Endocrine Examination.**
- Basic Endocrine Diagnostic Tests.**
- Hormones And Hormones Action.**
- Hypothalamus And Pituitary Gland.**
- The Posterior Pituitary (Neurohypophysis).**
- Growth.**
- The Thyroid Gland.**
- Metabolic Bone Disease.**
- Parathyroid Glands:**
  - 1- Hypercalcemia And Hypocalcemia.**
  - 2- Osteoporosis.**
  - 3- Osteomalacia And Rickets.**
- Adrenal Gland.**
- Endocrine Hypertension.**
- Puberty.**
- Disorders Of Sex Determination And Differentiation.**

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- **Female Reproductive Endocrinology And Infertility.**

- **Testes.**
- **Diabetes Mellitus.**
- **Hypoglycemic Disorders.**
- **Disorders Of Lipoprotein Metabolism.**
- **Multiple Endocrine Neoplasia.**

**Nutrition:**

- **The Nutrients.**
- **Major Nutrients:**
  - 1- **Carbohydrates (CHO).**
  - 2- **Proteins.**

**3- Fats.**

**4- Water.**

- **Minor Nutrients:**

**1- Vitamins.**

**2- Minerals.**

- **(GI) Glycemic Index.**
- **Statins.**
- **Obesity.**
- **Weight Loss.**

**Educational Outputs The Student Should Acquire:**

- 1- **Knowing and understanding of course topics.**
- 2- **Practical applications.**
- 3- **Learning to take the clinical history and getting information.**
- 4- **Developing clinical judgment- communication skills.**
- 5- **Ability to analyze and manage data.**
- 6- **Professional ethics.**

**Teaching & Training Methods:**

- 1- **Theoretical course.**
- 2- **Clinical training.**
- 3- **Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**

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## **3<sup>rd</sup> Course: Infectious Diseases (Internal Medicine 3)**

### **Course Title And Code:**

**Infectious Diseases (Internal Medicine 3).**

### **Credit Hours:**

**2 theoretical hours/weekly (18 weeks) - 40 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course student should be able:**

- 1- To understand the pathologies of infectious diseases, manifestations, differential diagnosis, investigations and how to treat.**
- 2- To acquire the skills that enables him to examine the patient clinically and helps him to diagnose various infectious conditions.**
- 3- To train the student on logical ways of thinking through which he use of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

- Introduction.**
- Viral Respiratory Infection.**
- Herpes Viruses Infections.**
- Viral Hepatitis.**
- Mumps, Measles, Rubella, Roseola Infectious.**
- Sexually Transmitted Infections, AIDS.**
- Slow Viruses Infections, Arboviruses Infections, Roboviruses Infections.**
- Gram Positive Bacterial Infections.**
- Infectious Diarrhea, Enteric Fever, Helicobacter Pylori Infection.**
- Zoonotic Diseases, Brucellosis, Plaque, Anthrax, Rickettsial Infections, Rabies, Leptospirosis, Recurrent Fever, Lyme Disease, Listeriosis, Tularemia,**

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**Pasturella Infection, Rat Bite Infection.**

- **Fever Of Unknown Origin.**
- **Nosocomial Infections.**
- **IVDU Infections.**
- **Septic Shock.**
- **Protozoal Infections, Lishmaniasis, Toxoplasmosis, Malaria, Trypanosomal Diseases,**

**Facultative Protozoal Parasite Diseases.**

- **Helminthes Diseases.**
- **Insects Diseases.**
- **Mycosis, Candidiasis, Cryptococcosis, Blastomycosis, Histoplasmosis, Coccidioidomycosis, Sporotrichosis, Aspergillosis, PSC.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



## **4<sup>th</sup> Course: General Surgery And Abdominal Surgery (Surgical Diseases 1)**

### **Course Title And Code:**

**General Surgery And Abdominal Surgery (Surgical Diseases 1).**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**It is expected from the student by the end of this course that:**

- 1- He will understand the pathologies of common General & Abdominal surgical diseases, manifestations, differential diagnosis, the necessary investigation and the way of treatment.**
- 2- He will acquire the skills which enable him to examine the patient clinically, and help him to diagnose various general & abdominal surgical diseases.**
- 3- He will be trained on logical thinking through which he uses his theoretical knowledge and clinical skills to solve the diagnostic problems.**

### **Course Description:**

- Liver Surgical Diseases.**
- Gallbladder & Biliary Tract Diseases.**
- Pancreas Diseases.**
- Spleen Surgical Diseases.**
- Vermiform Appendix.**
- Life Threatening Disorders: GI Bleeding – Shock – Intestinal Obstruction.**
- Wound Infection, Antibiotics.**
- Fluid And Electrolytes Acid – Base Balance.**
- Esophagus Surgical Diseases, Hiatus Hernias.**
- Stomach And Duodenum Surgical Diseases.**
- Lesions Of Small Intestine And Mesentery.**



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- **Lesions Of Large Intestine.**
- **Lymphoma & Surgery.**
- **Acute Abdomen.**
- **Peritonitis And Intra-abdominal Abscesses.**
- **Abdominal Trauma \Diagnosis, Treatment\.**
- **Hernias \Types, Treatment\.**
- **Laparoscopic Surgery – General View.**
- **Bariatric Surgery.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



## **5<sup>th</sup> Course: Molecular And Clinical Oncology**

### **Course Title And Code:**

**Molecular And Clinical Oncology.**

### **Credit Hours:**

**2 theoretical hours/week (18 weeks) - 40 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**It is expected from the student by the end of this course that:**

- 1- He will understand the pathologies of common benign and malignant tumors, manifestations, differential diagnosis; necessary investigation and their treatment.**
- 2- He will acquire the skills which enable him to approach the patient clinically, and help him to diagnose various benign and malignant tumors.**
- 3- He will be trained on logical thinking through which he uses his theoretical knowledge and clinical skills to solve the diagnostic problems.**

### **Course Description:**

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| <ul style="list-style-type: none"><li>• <b>General Manifestations Of Malignant Diseases:</b><ol style="list-style-type: none"><li><b>1- Cancer Biology.</b></li><li><b>2- Cancer Causes.</b></li><li><b>3- Cancer Diagnosis.</b></li><li><b>4- Staging Classification And Prognosis.</b></li><li><b>5- Oncologic Surgery.</b></li><li><b>6- Cancer Tracing.</b></li><li><b>7- Chemotherapy.</b></li><li><b>8- Radiotherapy.</b></li><li><b>9- Hormonal Therapy.</b></li></ol></li></ul> | <ol style="list-style-type: none"><li><b>10- Biologic Therapy.</b></li><li><b>11- Genetic And Immune Therapy.</b></li><li><b>12- Prevention From Cancer.</b></li><li><b>13- Soft Tissues Tumors.</b></li></ol> <ul style="list-style-type: none"><li>• <b>Head And Neck Diseases:</b><ol style="list-style-type: none"><li><b>1- Head And Neck Tumors.</b></li><li><b>2- Thyroid Gland Lesions.</b></li></ol></li><li>• <b>Functional Thyroid Diseases:</b><ol style="list-style-type: none"><li><b>1- Thyroiditis.</b></li><li><b>2- Thyroid Goiter.</b></li></ol></li></ul> |
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| <ul style="list-style-type: none"><li><b>3- Thyroid Cancers.</b></li><li><b>4- Complications Of Thyroid Surgery.</b></li><li><b>5- Parathyroid Glands.</b></li><li><b>6- General Considerations.</b></li><li><b>7- Functional Parathyroid Diseases.</b></li><li><b>8- Endocrine Adenoma.</b></li><li>• <b>Mammary Gland Diseases:</b><ul style="list-style-type: none"><li><b>1- General Considerations.</b></li><li><b>2- Benign Breast Diseases.</b></li><li><b>3- Breast Cancer.</b></li></ul></li></ul> | <ul style="list-style-type: none"><li><b>4- Epidemiology And Risk Factors.</b></li><li><b>5- Clinical History And Diagnosis.</b></li><li><b>6- Classification.</b></li><li><b>7- Pathological And Anatomical Forms.</b></li><li><b>8- Surgical Therapy.</b></li><li><b>9- Radiotherapy.</b></li><li><b>10- Chemotherapy.</b></li><li><b>11- Hormonal Therapy.</b></li><li><b>12- Breast Reconstruction.</b></li></ul> |
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**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**

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## **6<sup>th</sup> Course: Ear, Nose And Larynx Diseases And Surgery Of The Face And The Neck**

### **Course Title And Code:**

**Ear, Nose And Larynx Diseases And Surgery Of The Face And The Neck.**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 40 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course students should be able to:**

- 1- Know the anatomy of the ear, nose, larynx, and head & neck.**
- 2- Demonstrate a basic knowledge of signs and symptoms of surgical diseases of the ear, nose, throat, and neck.**
- 3- Knowledge of differential diagnostic of surgical problems.**
- 4- Basic knowledge of common and urgent cases in nose, ear, larynx, head and neck diseases.**
- 5- Diagnosis of common diseases of the ear, nose, larynx, and head & neck.**
- 6- Knowledge of the complications of common surgical procedures in the diseases of the ear, nose, larynx, and head & neck.**

### **Course Description:**

- The Ear:**
  - 1- Embryonic Development Of The Ear.**
  - 2- Anatomy Of The Ear.**
  - 3- Ear Physiology.**
  - 4- Examination And Evaluation Of The Ear.**
  - 5- Diseases Of The Pinna.**
- 6- The External Auditory Canal Diseases.**
- 7- The Middle Ear Diseases.**
- 8- Internal Ear Diseases.**
- Nose And Sinuses:**
  - 1- Anatomy Of The Nose.**
  - 2- Physiology Of The Nose.**
  - 3- Paranasal Sinuses.**



- 4- Examination And Evaluation Of The Nose.**
- 5- Diseases Of The Nose.**
- 6- Sinus Diseases.**
- **Facial Nerve:**
  - 1- Anatomy Of The Facial Nerve.**
  - 2- Causes Of Facial Nerve Paralysis.**
  - 3- Management Of Facial Paralysis.**
- **The Larynx:**
  - 1- Anatomy Of The Larynx.**
  - 2- Function And Examination Of The Larynx.**
  - 3- Diseases Of The Larynx.**
  - 4- Tumors Of The Larynx.**
  - 5- Tracheostomy.**
- **The Pharynx:**
  - 1- Anatomy Of The Pharynx And Mouth.**
  - 2- Pharynx Function.**
- 3- Diseases Of The Pharynx.**
- 4- Sleep Apnea And Snoring.**
- **Surgical Neck Diseases:**
  - 1- Cervical Triangles.**
  - 2- Lymphatic System**
  - 3- Differential Diagnosis Of Neck Masses.**
  - 4- Congenital Neck Masses.**
  - 5- Infections.**
  - 6- Traumas.**
- **Salivary Glands:**
  - 1- Anatomical Profile.**
  - 2- Physiology Of Salivary Glands.**
  - 3- Physical And Diagnostic Examination.**
  - 4- Diseases Of The Salivary Glands.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

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**Teaching & Training Methods:**

**1- Theoretical course.**

**2- Clinical training.**

**3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



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## **7<sup>th</sup> Course: Specific Pathological Anatomy (Pathology 2)**

### **Course Title And Code:**

**Specific Pathological Anatomy (Pathology 2).**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 2 practical hours/week.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 1<sup>st</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course, the student is expected to be able to:**

- 1- understand the pathological factors of all diseases that affect specific organ systems at the molecular, cellular and histological levels.**
- 2- Know the various factors and mechanisms which cause diseases.**
- 3- Know the relationship between the structural al and functional changes in these organs and the signs and symptoms of the diseases.**
- 4- put the differential diagnosis of these pathological changes.**
- 5- Understand The outlook of the disease (prognosis).**
- 6- Know the best way to design a plan for prevention of disease.**

### **Course Description:**

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| <ul style="list-style-type: none"><li>• <b>Diseases of the Heart and Blood Vessels.</b></li><li>• <b>Diseases of the Gastrointestinal Tract, Liver, and Gallbladder.</b></li><li>• <b>Diseases of the Respiratory System.</b></li><li>• <b>Diseases of the Blood and Reticule-Endothelial Tissues.</b></li></ul> | <ul style="list-style-type: none"><li>• <b>Diseases of the Kidney and Its Collecting System.</b></li><li>• <b>Diseases of the Female Genital System and Breast.</b></li><li>• <b>Diseases of the Central and Peripheral Nervous System.</b></li><li>• <b>Diseases of the Musculoskeletal System.</b></li><li>• <b>Diseases of the Endocrine Glands.</b></li></ul> |
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- **Diseases of the Skin.**
- **Diseases of the Male Genital System.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing clinical judgment- communication skills.**
- 4- Ability to analyze and manage data.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Practical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Practical examination 30 credits:**

**Through practical evaluation and laboratory experiments.**

**Evaluation of theoretical Knowledge 70 credits:**

**Automated examination at the end of the semester.**



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## **8<sup>th</sup> Course: Cardiovascular Diseases (Internal Medicine 4)**

### **Course Title And Code:**

**Cardiovascular Diseases (Internal Medicine 4).**

### **Credit Hours:**

**2 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Understand the pathologies of common cardiovascular diseases, manifestations, differential diagnosis, investigation and how to treat**
- 2- Acquire the skills that enables him to the clinical approach of the patient and helps him to diagnose various heart diseases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

- Bases Of Clinical Cardiology Examination.**
- Basic Cardiac Diagnostic Tests.**
- ECG Interpretation – Stress Test.**
- Echocardiography (2-D ECHO).**
- Coronary Angiography.**
- Cardiac Stress Tests And Nuclear Cardiology.**
- Arrhythmias.**
- Pacing Techniques.**
- Coronary Artery Disease Risk Factors.**
- Hypertension.**
- Ischemic Heart Disease.**
- Sudden Death.**
- Heart Failure And Cardiomyopathies.**
- Valvular Heart Disease.**
- Pericardial Diseases.**
- Pulmonary Embolism.**
- Pulmonary Hypertension.**
- Adult Congenital Heart Disease.**

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- **Infective Endocarditis.**
- **Aortic And Peripheral Arterial Diseases.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**

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## **9<sup>th</sup> Course: Respiratory Diseases (Internal Medicine 5)**

### **Course Title And Code:**

**Respiratory Diseases (Internal Medicine 5).**

### **Credit Hours:**

**2 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Understand the pathologies of common respiratory diseases, manifestations, differential diagnosis, investigation and how to treat.**
- 2- Acquire the skills that enables him to the clinical approach of the patient and helps him to diagnose various respiratory diseases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

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| <ul style="list-style-type: none"><li>• <b>Clinical Approach Of Respiratory Disease.</b></li><li>• <b>Investigations In Respiratory Diseases.</b></li><li>• <b>Acute Bronchitis.</b></li><li>• <b>Pneumonia.</b></li><li>• <b>Viral Pneumonia.</b></li><li>• <b>Hydatid Cysts, Amebiasis, Ascariasis.</b></li><li>• <b>Carina Pneumocystis.</b></li><li>• <b>Pulmonary Abscess.</b></li><li>• <b>Pulmonary Tuberculosis.</b></li></ul> | <ul style="list-style-type: none"><li>• <b>Chronic Obstructive Pulmonary Disease.</b></li><li>• <b>Asthma.</b></li><li>• <b>Bronchiectasis.</b></li><li>• <b>Lung Cancer.</b></li><li>• <b>Pleural Disease.</b></li><li>• <b>Mediastinal Disease.</b></li><li>• <b>Pulmonary Embolism.</b></li><li>• <b>Diffuse Parenchymal Lung Diseases.</b></li><li>• <b>Respiratory Failure.</b></li></ul> |
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**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



## **10<sup>th</sup> Course: Vascular And Cardiothoracic Surgery (Surgical Diseases 2)**

### **Course Title And Code:**

**Vascular And Cardiothoracic Surgery (Surgical Diseases 2).**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**It is expected from the student by the end of this course that:**

- 1- He will understand the pathologies of common Vascular & Cardiothoracic surgical diseases, manifestations, differential diagnosis, the necessary investigations and their treatment. And will understand the principles of diagnosis and treatment of these diseases.**
- 2- He will acquire the skills which enable him to examine the patient clinically, and help him to diagnose various Vascular & Cardiothoracic surgical diseases.**
- 3- He will be trained on logical thinking through which he uses his theoretical knowledge and clinical skills to solve the diagnostic problems.**

### **Course Description:**

#### **Vascular Disorders:**

##### **• Arterial Disease:**

- 1- General Principles  
(Vascular Patient Approach,  
Vascular Investigations).**
- 2- Atherosclerosis.**

**3- Lower Extremity Occlusive Disease.**

**4- Aortoiliac Occlusive Disease.**

**5- A Cute Arterial Insufficiency In Extremities.**



- 6- Mesenteric Vascular Disease.**
- 7- Renal Artery Stenosis (RAS).**
- 8- Extracranial Cerebrovascular Disease.**
- 9- Aneurysms.**
- 10- Vasospastic Diseases.**
- 11- Vascular Trauma.**
- **Venous Diseases:**
  - 1- Superficial Thrombophlebitis.**
  - 2- Varicose Veins.**
  - 3- Deep Venous Thrombosis (DVT).**
  - 4- Chronic Venous Insufficiency.**
  - 5- Pulmonary Embolism.**
- **Lymphatic System Diseases:**
  - 1- Lymphedema.**
  - 2- Lymphatic Tumors.**
  - 3- Lymphangitis And Lymphadenitis.**
- Cardiac Surgery:**
- **Acquired Heart Diseases:**
  - 1- Overview:**
    - Epidemiology.**
    - Signs And Symptoms.**
    - Physical Examination.**
    - Preoperative Management.**
  - Postoperative Management.**
  - Cardiac Arrest.**
  - Extracorporeal Circulation.**
  - Prosthetic Valves.**
- 2- Aortic Valvular Diseases:**
  - Aortic Stenosis.**
  - Aortic Insufficiency.**
- 3- Mitral Valve Diseases:**
  - Mitral Stenosis.**
  - Mitral Insufficiency.**
- 4- Tricuspid Valve, Pulmonic Valve And Multiple Valvular Disease:**
  - Tricuspid Stenosis And Insufficiency.**
  - Pulmonic Valve Disease.**
  - Multiple Valvular Disease.**
- 5- Coronary Artery Disease.**
- 6- Cardiac Tumors.**
- 7- Cardiac Trauma.**
- 8- Pericardial Disorders.**
- **Congenital Heart Diseases:**
  - 1- Overview:**
  - 2- The Incidence.**
  - 3- Etiology.**
  - 4- Types.**
  - 5- History.**
  - 6- Physical Examination.**
  - 7- Diagnosis.**

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| <ul style="list-style-type: none"><li><b>8- Patent Ductus Arteriosus.</b></li><li><b>9- Coarctation Of The Aorta.</b></li><li><b>10- Atrial Septal Defects.</b></li><li><b>11- Ventricular Septal Defects.</b></li><li><b>12- Tetralogy Of Fallot.</b></li><li><b>13- Transposition Of The Great Arteries.</b></li><li><b>• Aortic Dissection.</b></li><li><b>• Aneurysms Of Thoracic Aorta.</b></li></ul> | <ul style="list-style-type: none"><li><b>• Introduction To Respiratory Diseases.</b></li><li><b>• Congenital Abnormalities Of Respiratory System.</b></li><li><b>• Diseases Of The Trachea.</b></li><li><b>• Surgical Management Of Infectious Chest Diseases.</b></li><li><b>• Lung Cancer.</b></li><li><b>• Emphysema.</b></li><li><b>• Surgical Diseases Of Pleura.</b></li></ul> |
|--|--|

**Thoracic Surgery:**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**

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## **11<sup>th</sup> Course: Obstetrics**

### **Course Title And Code:**

**Obstetrics.**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 60 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Diagnose pregnancy and to know normal pregnancy course and how to practice the prenatal care and fetal monitoring.**
- 2- Acquire the skills that enable him to examine the patient clinically and help him to diagnose the abnormalities during pregnancy.**
- 3- Be able to manage the vaginal and cesarean delivery and the patient follow up in the postnatal period and puerperium.**
- 4- Think logically using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

- Physiology Of Pregnancy.**
- Normal Pregnancy, Diagnosis, Clinical Signs And Diagnostic Tests.**
- Pregnant Care, Follow-Up & Intrauterine Growth.**
- Medication & Pregnancy.**
- Pregnancy & Internal And Surgical Diseases.**
- Abnormal Pregnancy, Ectopic Pregnancy, Miscarriages & Hydatidiform Mole.**
- High-Risk Pregnancies, Hemorrhages, Preterm Labor, Post Term Pregnancy.**
- Labor & Natural Childbirth.**
- Abnormal Labor: Fetal-Pelvic Disproportion, Abnormal Presentations, Premature Rupture Of Membranes.**
- Labor Induction.**
- Obstetric Interventions.**



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- **Surgical Termination Of Pregnancy, Cesarean Section & Obstetric Hysterectomy.**
- **Natural Puerperium.**
- **Abnormal Puerperium, Puerperal Sepsis.**
- **Rhesus Incompatibility In Pregnancy.**
- **Fetal Monitoring During Pregnancy And Labor**
- **Fetal Diagnosis And Treatment During Pregnancy.**
- **Newborn Injury.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



## **12<sup>th</sup> Course: Anesthesia And Resuscitation And Emergency Medicine**

### **Course Title And Code:**

**Anesthesia And Resuscitation And Emergency Medicine.**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 40 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Understand essential principles of anesthesiology and resuscitation and approaching emergency patients.**
- 2- Acquire the skills that enables him to examine the patient clinically and help him to achieve suitable management.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

### **Course Description:**

#### **Anesthesia And Resuscitation:**

- Preoperative Assessment And Premedication.**
- General Anesthesia.**
- Local And Regional Anesthesia.**
- Postoperative Care.**
- Cardiopulmonary Resuscitation CPR.**
- Shock.**
- Transfusion Therapy.**
- Fluid And Electrolyte Balance.**
- Acide – Base Balance.**

- Diagnosis And Management Of The Intensive Care Patients.**
- Respiratory Insufficiency And Mechanical Ventilation.**
- Pain Management.**

#### **Emergency Medicine:**

- General Care Of Emergency Patient.**
- Approaching Poisoning And Overdose Patient.**
- Soft Tissue Injuries.**
- Traumas.**
- Environmental Injuries.**

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**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**



## **13<sup>th</sup> Course: Dermatology**

### **Course Title And Code:**

**Dermatology.**

### **Credit Hours:**

**3 theoretical hours/week (18 weeks) - 40 hours clinical training.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year - 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**In this course, students are introduced to the bases of dermatology, signs and symptoms of common skin diseases, methods of diagnosis and therapy, to have skills in recognition and treatment of skin diseases.**

**The course also aims to studying sexually transmitted diseases, and how to diagnose and treat them.**

### **Course Description:**

- **Bases Of Dermatology:**
  - 1- **Structure And Functions Of The Skin.**
  - 2- **Dermatology Diagnosis.**
  - 3- **Basic Therapeutics.**
- **Infections Of The Skin:**
  - 1- **Bacterial Infections.**
  - 2- **Mycobacterial Infections.**
  - 3- **Syphilis And Sexually Transmitted Diseases.**
  - 4- **Parasitic Infections.**
  - 5- **Viral Infections.**
  - 6- **Fungal Diseases.**
- **Dermatomes Due To Physical Agents:**
  - 1- **Photo Dermatoses.**
  - 2- **Cold Injuries.**
  - 3- **Heat And Ionizing Radiation Injuries.**
  - 4- **Injuries Mechanical.**
- **Urticarial, Drugs Reactions And Erythema Multiform.**
- **The Eczematous Dermatoses:**
  - 1- **Contact Dermatitis.**
  - 2- **Atopic Dermatitis.**
  - 3- **Other Forms Of Eczema.**

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- 4- Papulosquamous**
  - 5- Dermatoses.**
  - 6- Psoriasis.**
  - 7- Plaque Parapsoriasis.**
  - 8- Lichen Planus.**
  - 9- Pityriasis Rosea.**
  - **Connective Tissue Diseases:**
    - 1- Lupus Erythematosus.**
    - 2- Dermatomyositis.**
    - 3- Scleroderma.**
  - **Chronic Bullous Diseases:**
    - 1- Pemphigus.**
    - 2- Pemphigoid Diseases.**
  - **Disorders Of Pigmentation:**
    - 1- Hypo Melanosis.**
    - 2- Hyper Melanosis.**
  - **Disorders Of Keratinization And Some Of Geno Dermatoses.**
- **Nevi And Skin Tumors Nevi.**
  - **Non-Infectious Cutaneous Granulomas.**
  - **Adnexal Disorders:**
    - 1- Diseases Of Sebaceous Follicles**
    - 2- Diseases Of The Hair.**
    - 3- Diseases Of Nails.**
    - 4- Sweet Glands Diseases.**
    - 5- Diseases Of Mucous Membrane.**
  - **Skin And Other Systems:**
    - 1- Skin Diseases In Pregnancy.**
    - 2- Skin And The Psyche.**
    - 3- Skin And Internal Diseases.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment - communication skills.**
- 5- Ability to analyze and manage data.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

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**Assessment Strategy And Credits:**

**100 credits:**

**Clinical examination 20 credits:**

**Through clinical evaluation and the clinical approach of the disease.**

**Evaluation of theoretical Knowledge 80 credits:**

**Automated examination at the end of the semester.**





## **14<sup>th</sup> Course: Medical Imaging And Roentgen Diagnosis 1 (Radiology 1)**

### **Course Title And Code:**

**Medical Imaging And Roentgen Diagnosis 1 (Radiology 1).**

### **Credit Hours:**

**1 theoretical hour/week (36 weeks) - 20 hours clinical training .  
1 practical hour/week.**

### **Level/Year At Which This Course Is Offered:**

**4<sup>th</sup> year – 1<sup>st</sup> and 2<sup>nd</sup> semester.**

### **What Is The Main Purposes For This Course:**

**By the end of this course the student should be able to:**

- 1- Understand the principles of simple x-ray, contrast methods, ultrasound, MRI, gamma camera, SPECT and PET SCAN.**
- 2- Understand Radiological anatomy of chest. Mediastinum stomach, intestinal ,liver and pancreas.**
- 3- Acquire the skills that enables him to diagnose the disease of lungs, mediastinum, heart.**
- 4- Know how to diagnose diseases of esophagus, stomach, intestine.**
- 5- Know how to diagnose diseases of liver and pancreas.**
- 6- Understand Radiology in emergency cases.**
- 7- Understand Biological effects of ionizing radiation.**

### **Course Description:**

#### **• Radiological Diagnosis Of Respiratory Disease:**

**1- Pneumonia.**

**2- Viral Pneumonia.**

**3- Hydrated Cysts, Amebiases,  
Ascariasis, Carinii  
Pneumocystis.**

**4- Pulmonary Access.**

**5- Pulmonary Tuberculosis.**



- 6- Chronic Obstructive Pulmonary Disease.**
- 7- Asthma.**
- 8- Bronchiectasis.**
- 9- Lung Cancer.**
- 10- Pleural Disease.**
- 11- Mediastinal Diseases.**
- 12- Pulmonary Embolism**
- 13- Diffuse Parenchymal Lung Diseases**
- 14- Respiratory Failure.**
- **Radiological Diagnosis Of Digestive System:**
  - 1- Achalasia, Diffuse Spasm Of Esophagus, Diaphragmatic Hernia.**
  - 2- Neoplasms Of Esophagus.**
  - 3- Intestinal Obstruction.**
  - 4- Caecal And Sigmoid Volvulus.**
  - 5- Hepatitis And Fatty Liver.**

- 6- Hepatic Cirrhosis.**
- 7- Cysts And Tumors Of Liver.**
- 8- Gall Bladder Diseases.**
- 9- Pancreatic Diseases.**
- **Ultrasound Imaging In Genecology And Obstetric:**
  - 1- Diagnosis Of Early Pregnancy.**
  - 2- Diagnosis Of Common Anomalies.**
  - 3- Diagnosis Of Bleeding In Pregnancy.**
  - 4- Doppler Imaging In Pregnancy.**
- **Radiological Imaging Of Emergency Cases:**
  - 1- Abdominal Trauma.**
  - 2- Acute Abdomen.**
  - 3- Neurological Trauma.**
  - 4- Urinary Trauma.**
  - 5- Chest Trauma.**

**Educational Outputs The Student Should Acquire:**

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Learning to diagnose simple x-ray, CT-SCAN, MRI imaging.**
- 4- Differential diagnosis of radiological signs.**
- 5- Ability to diagnose Common diseases.**
- 6- Professional ethics.**

**Teaching & Training Methods:**

- 1- Theoretical course.**
- 2- Practical training.**
- 3- Educational multi-media tools.**



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**Assessment Strategy And Credits:**

**100 credits:**

**Practical examination 30 credits:**

**Through displaying images and diagnosing it.**

**Evaluation of theoretical Knowledge 70 credits:**

**Automated examination at the end of the semester.**

