

Courses Description - 5th Year (New Study Plan)



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**

Syrian Arab Republic

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine



1st Course: Neurology Diseases And Geriatric Medicine (Internal Medicine 6)

Course Title And Code:

Neurology Diseases And Geriatric Medicine (Internal Medicine 6).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the pathologies of common neurological 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 neurological conditions.**
- 3- Understand the physiology of aging, acquiring the ability to manage the frequent problems in the aged population and modulate the management of medical condition in respect of aging physiology.**
- 4- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

Neurology Diseases:

- The Importance Of Neurological Disease.**
- Common Symptoms And Signs.**
- Functional Neuroanatomy.**
- Cranial Nerves Diseases.**
- Motor Control Systems.**
- Sensory Pathways And Pain.**
- Bladder Control And Sexual Dysfunction.**
- Neurological Tests.**

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- **Neuro-Imaging.**
- **Unconsciousness And Coma.**
- **Stroke And Cerebrovascular Disease.**
- **Headache, Migraine And Facial Pain.**
- **Epilepsy And Loss Of Consciousness.**
- **Movement Disorders.**
- **Multiple Sclerosis (MS).**
- **Nervous System Infection And Inflammation.**
- **Brain Tumors.**
- **Hydrocephalus.**
- **Traumatic Brain Injury.**
- **Spinal Cord Disease.**

- **Degenerative Neuronal Diseases.**
- **Congenital And Neurogenic Disorders.**
- **Paraneoplastic Syndromes.**
- **Peripheral Nerve Disease.**
- **Muscle Diseases.**

Geriatric Medicine:

- **Geriatric Assessment.**
- **Functional Anatomy And Physiology.**
- **Investigations.**
- **Presenting Problems In Geriatric Medicine.**
- **Rehabilitation.**

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.





2nd Course: Nephrology Diseases (Internal Medicine 7)

Course Title And Code:

Nephrology Diseases (Internal Medicine 7).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st 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 nephrology 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 nephrology diseases.**
- 3- Think logically using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Anatomy And Physiology Of The Kidney.• Electrolytes Of The Blood.• Alkaline Acid Balance.• Hormones And The Kidney.• Kidney Disorders.• Urinal Infections. | <ul style="list-style-type: none">• Kidney Stones.• Acute Renal Failure.• Chronic Renal Failure.• Glomerulonephritis.• Kidney Transplant.• Hypertension And Kidney.• Pregnancy And Kidney. |
|---|---|

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.**

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6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

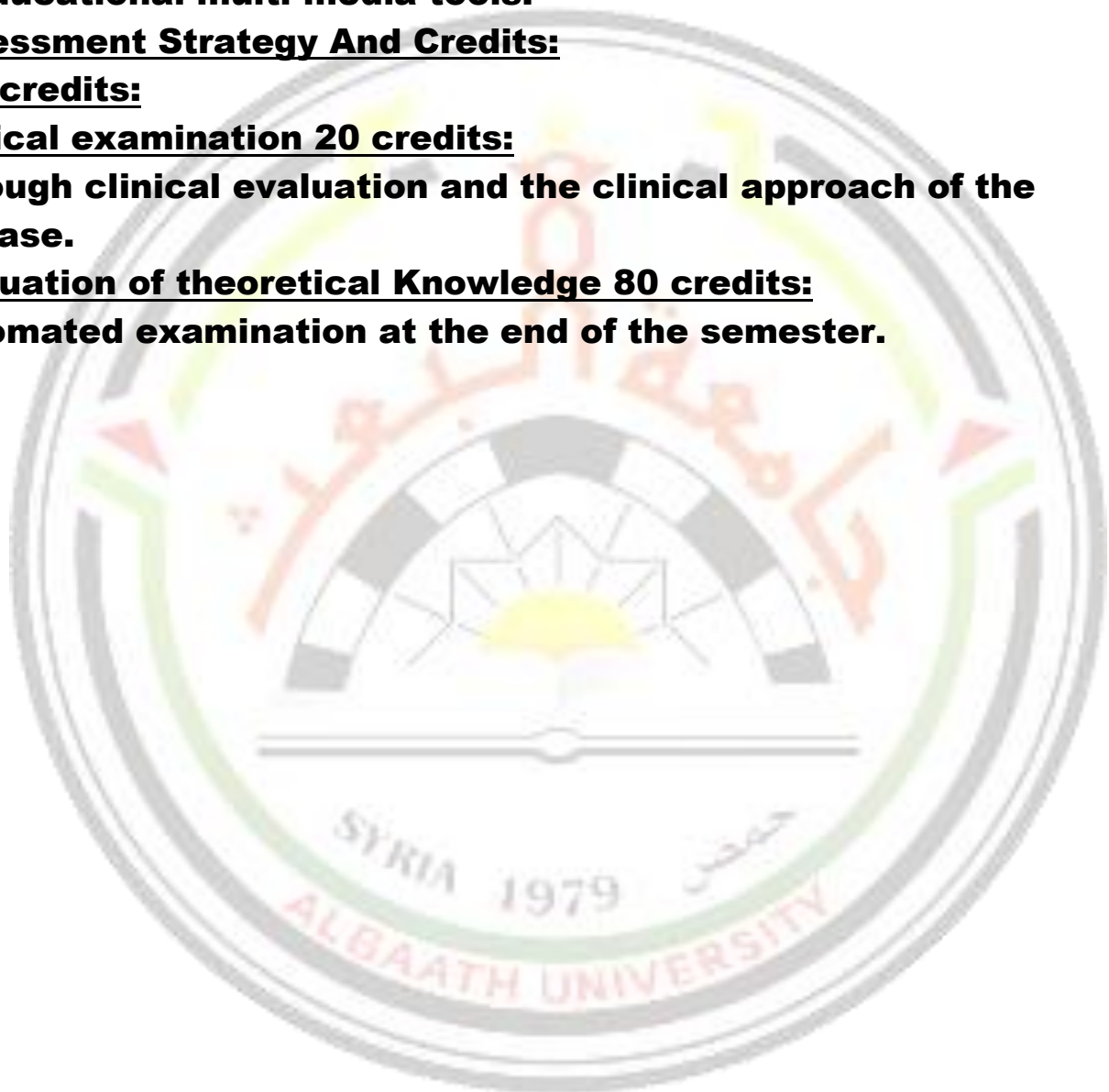
100 credits:

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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3rd Course: Gynecology

Course Title And Code:

Gynecology.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

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

- 1- Utilize the basic science of human embryology, anatomy, histology and physiology to interpret female clinical and morphological changes.**
- 2- Acquire the skills that enables him to perform the clinical examination of the patient and helps him to diagnose the common gynecological conditions.**
- 3- Have sufficient knowledge about the diagnosis and treatment of benign and malignant conditions of the female genital organs.**
- 4- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

- | | |
|--|--|
| <ul style="list-style-type: none">• The Gynecological History And Examination.• Embryology And Anatomy.• Normal And Abnormal Sexual Development And Puberty.• Pediatric Gynecology.• Benign Disorders Of The Lower Reproductive Tract.• Benign Disorders Of The Ovaries And Oviducts. | <ul style="list-style-type: none">• Benign Disorders Of The Uterus.• Endometriosis And Adenomyosis.• Dysmenorrhea And Premenstrual Syndrome.• Gynecological Bleeding.• Pelvic Inflammatory Disease.• Contraception And Sterilization. |
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- **Menopause.**
- **Urogynecology.**
- **Uterovaginal Prolapsed.**
- **Infertility Or Subfertility.**
- **Amenorrhea.**
- **Polycystic Ovarian Syndrome And Hyperandrogenism.**
- **Preinvasive Lesions Of The Cervix And Cervical Cancer.**
- **Uterine Cancer.**
- **Ovarian Cancer.**
- **Preinvasive Lesions Of The Vulva And Vulvar Cancer.**
- **Preinvasive Lesions Of The Vaginal And Vaginal Cancer.**

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.



4th Course: Urological And Neurological Surgery (Surgical Diseases 3)

Course Title And Code:

Urological And Neurological Surgery (Surgical Diseases 3).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

By the end of this course student should be able:

- 1- Understand the pathologies of common urological and neurosurgical 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 urological and neurosurgical diseases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

Urological Surgery:

- Introduction To Urology:**

- 1- Symptoms And Signs Of Genitourinary System.**

- 2- Evaluation Of The Urologic Patient.**

- 3- Investigations Of Genitourinary System.**

- Pediatric Urology:**

- 1- Normal Development Of The Urogenital System.**

- 2- Vesicoureteral Reflux.**

- 3- Primitive Congenital Hydronephrosis.**

- 4- Mega Ureter.**

- 5- Ectopic Ureteral Meatus.**

- 6- Ureterocele.**

- 7- Posterior Urethral Valves.**

- 8- Cryptorchidism.**

- 9- Hypospadias.**

- 10- Exstrophy Epispadias Complex.**

- 11- Ambiguous Genital.**



- 12- Bladder Immaturity Syndrome.**
- 13- Nocturnal Enuresis.**
- 14- Communicating Hydrocele.**
- 15- Hydrocele Of The Cord.**
- 16- Paraphimosis.**
- 17- Testicular Torsion.**
- 18- WILMS' Tumor.**
- 19- Sarcoma Of Urogenital Sinus.**
- **Urinary Lithiasis.**
- **Infections Of The Genitourinary System.**
- **Genitourinary Trauma.**
- **Neoplasms Of The Genitourinary System.**
- **Bladder And Urethra Diseases.**
 - 1- Congenital Urachal Anomalies.**
 - 2- Foreign Bodies In Bladder And Urethra.**
 - 3- Bladder Diverticula.**
 - 4- Overactive Bladder.**
 - 5- Stress Incontinence.**
 - 6- Cystocele.**
 - 7- Bladder Fistulas (E).**
 - 8- Urethra Diverticulum.**
 - 9- Interstitial Cystitis.**
 - 10- Neurogenic Bladder.**
 - 11- Male Urethral Stenosis.**
- **Penis And Prostate Diseases:**
 - 1- Anomalies Of Penis And Its Congenital Diseases.**
 - 2- Penile Cutaneous Diseases.**
 - 3- Benign Prostatic Hyperplasia.**
- **Kidney Diseases:**
 - 1- Renal Congenital Diseases.**
 - 2- Renal Transplantation.**
- **Ureter Diseases:**
 - 1- Ureteral Anomalies.**
 - 2- Ureteral Acquisitive Strictures.**
 - 3- Ureteral Fistulae.**
- **Retroperitoneal Diseases:**
 - 1- Retroperitoneal Tumors.**
 - 2- Primitive Retroperitoneal Fibrosis.**
- **Androgenic Diseases:**
 - 1- Erectile Dysfunction.**
 - 2- Priapism.**
 - 3- Peronei's Disease.**
 - 4- Androgen Deficiency In The Aging Male (Andropause).**
 - 5- Disorders Of Ejaculation And Orgasm.**
 - 6- Male Infertility And Its Disorders.**
 - 7- Varicocele.**
- **Surgical Adrenal Diseases.**



Neurological Surgery:

- **History Of Neurological Surgery.**
- **Neurological Surgical Operations:**
 - 1- **Conventional Neurological Surgery.**
 - 2- **Microscopic Neurological Surgery.**
 - 3- **Stereotaxic Neurological Surgery.**
- **Neurological Surgical Care:**
 - 1- **Preoperative Care.**
 - 2- **Operative Care.**
 - 3- **Postoperative Care.**
- **Neurological Surgical Diagnostic Studies:**
 - 1- **Neuroradiological Studies.**
 - 2- **Electrical Studies: EEG , EMG.**
 - 3- **MRI-Ultra Sound.**
- **Neurological Surgical Injuries:**
 - 1- **Head Injuries /Scalp –Skull-Brain/.**
 - 2- **Spine And Spinal Cord Injuries.**
 - 3- **Plexus And Peripheral Nerve Injuries.**
- **Tumors Of The Nervous System:**
 - 1- **Tumors Of Skull.**
 - 2- **Brain Tumors.**
 - 3- **Spinal Cord Tumors.**
 - 4- **Tumors Of The Peripheral Nerves.**
- **Herniation Of The Nucleus Pulposus:**
 - 1- **Lumbar Herniation.**
 - 2- **Cervical Herniation.**
- **Cerebro Vascular Diseases:**
 - 1- **Aneurysm.**
 - 2- **Arterio Venous Malformation /A.V.M/.**
- **Congenital Anomalies Of Nervous System:**
 - 1- **Spina Bifida Meningo And Meylocele.**
 - 2- **Cranium Bifidum And Cephalocele.**
 - 3- **Craniosynostosis.**
 - 4- **Arachnoid –Cyst.**
 - 5- **Arnold – Chiari – Syndrome.**
- **Hydrocephalus:**
 - 1- **Communicating Hydrocephalus.**
 - 2- **Hydrocephalus Occlusus.**
 - 3- **Normpressure Hydrocephalus.**
 - 4- **Atrophic Hydrocephalus.**
- **Surgical Therapy Of Pain.**
- **Stereotactic Surgery.**

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- **Epileptic Surgery:**
 - 1- **Temporal Lobectomy.**
 - 2- **Lesionectomy.**
 - 3- **Functional Hemispherectomy.**
 - 4- **Callosotomy.**
 - 5- **Vagus – Stimulation.**

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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5th Course: Family And Preventive Medicine

Course Title And Code:

Family And Preventive Medicine.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the pathologies of common 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 diseases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

- | | |
|--|---|
| <ul style="list-style-type: none">• Family Physician Tasks.• Family Planning.• Maternal And Child Health.• Reproductive Health.• Adolescent Health.• Pre-Marital Care.• Lifestyle And Reproduction. | <ul style="list-style-type: none">• Breast Feeding.• Vaccines.• Smoking And Taking Off.• Health Accommodation.• Disability.• Geriatrics. |
|--|---|

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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6th Course: Pediatrics (1)

Course Title And Code:

Pediatrics (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

By the end of this course student should be able:

- 1- Acquire knowledge about pediatrics necessary for any physician regardless of his/ her later Specialty.**
- 2- Acquire the skills that enables him/her to obtain a case history and perform clinical examination and evaluation of child development.**
- 3- Acquire The ability to synthesize and analyze the information and differential diagnoses.**

Course Description:

- History And Clinical Examination.**
- Normal Child Development.**
- Developmental Problems.**
- Growth And Disorders.**
- Pediatric Emergencies.**
- Accidents And Poisoning.**
- Chromosome Disorders.**
- Perinatal Medicine.**
- Neonatal Medicine.**
- Nutrition And Its Disorders.**

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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7th Course: Ophthalmology

Course Title And Code:

Ophthalmology.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year - 1st semester.

What Is The Main Purposes For This Course:

By the end of this course student should be able:

- 1- Know anatomy and physiology of the eye and its association with the pathogenesis of eye's diseases.**
- 2- Know the emergency cases in ophthalmology and how to manage them.**
- 3- Deal with the systemic diseases that have effects on the eye, its diagnosis and treatment.**
- 4- Think logically by using his theoretical knowledge and clinical skills to solve the diagnostic problems.**

Course Description:

- Eyelids (Anatomy And Physiology , Congenital Abnormalities , Diseases , Tumors).**
- Lacrimal Apparatus (Anatomy And Physiology , Diseases Of The Lacrimal Apparatus).**
- Conjunctiva (Anatomy And Physiology , Conjunctivitis, Degenerations , Tumors).**
- Sclera (Anatomy And Physiology , Diseases Of The Sclera).**
- Cornea (Anatomy And Physiology , Keratitis , Congenital Abnormalities , Corneal Dystrophies , Corneal Degenerations).**
- Uvea (Anatomy And Physiology , Congenital Abnormalities , Uveitis , Uveal Tumors).**
- Lens (Anatomy And Physiology , Cataract , Luxation Of The Lens).**

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- **Vitreous Body (Anatomy And Physiology , Diseases Of The Vitreous Body , Vitrectomy Surgery).**
- **Glaucoma (Anatomy And Physiology , Classification Of The Glaucoma).**
- **Retina (Anatomy And Physiology , Congenital Abnormalities , Vascular Lesions, Retinitis , Retinopathy, Degenerations , Macular Diseases , Retinal Detachment , Retinal Tumors).**
- **Optic Nerve (Anatomy And Physiology , Congenital Abnormalities , Diseases Of The Optic Nerve).**
- **Orbit (Anatomy And Physiology , Diseases Of The Orbit).**
- **Strabismus (Anatomy And Physiology , Heterophoria , Accommodative Strabismus , Paralytic Strabismus).**
- **Refractive Errors (Clinical Refractive , Anomalies Of Accommodation , Contact Lens).**

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.



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8th Course: Musculoskeletal Diseases ; Rheumatology (Internal Medicine 8)

Course Title And Code:

Musculoskeletal Diseases ; Rheumatology (Internal Medicine 8).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the pathologies of common Musculoskeletal and common autoimmune diseases, manifestations, differential diagnosis, the investigation means tools needed and their treatment.**
- 2- Understand the principles of diagnosis and management of trauma and fractures, and the principles of reconstructive surgery.**
- 3- Think logically by using his theoretical knowledge and clinical skills to solve the diagnostic problems.**

Course Description:

- Anatomic And Physiological Of Synovial Joints.**
- Anatomic And Physiological Of Vertebral Column.**
- Approaching Of Musculoskeletal Patient.**
- Principles Of Examination Musculoskeletal Patient.**
- Osteoarthosis Or Osteoarthritis:**
 - 1- Chondromalacia.**
 - 2- Periodic Joint Effusion.**
- Crystal- Related Arthropathies.**
 - 1- Gout.**
 - 2- Chondrocalcinosis.**



- 3- Hydroxyapatite Arthritis.**
- **Infectious Arthritis:**
 - 1- Nongonococcal Arthritis.**
 - 2- Gonococcal Arthritis.**
 - 3- Lyme Disease**
 - 4- Whipple Disease.**
 - 5- Viruses Arthritis.**
 - 6- Brucella Arthritis.**
 - 7- Tuberculous Arthritis.**
 - 8- Fungal Arthritis.**
 - 9- Osteomyelitis.**
- **Polyarthritis With Infection (Rheumatic Fever).**
- **Metabolic Bone Diseases:**
 - 1- Osteoporosis.**
 - 2- Osteomalacia.**
 - 3- Primitive Hyper Parathyroid**
 - 4- Renal Osteodystrophy.**
 - 5- Multiple Myeloma.**
 - 6- Paget Disease.**
 - 7- Diffuse Idiopathic Skeletal Hyperostosis.**
 - 8- Aseptic Osteo-Necrosis.**
- **Rheumatoid Arthritis.**
- **Juvenile Idiopathic Arthritis.**
- **Palindromic Rheumatism.**
- **Spondyloarthropathies:**
 - 1- Ankylosing Spondylitis.**
 - 2- Reactive Arthritis.**
 - 3- Enteropathy Arthritis.**
 - 4- Psoriatic Arthritis.**
- **Connective Tissues Diseases:**
 - 1- Polymyositis.**
 - 2- Dermatomyositis.**
 - 3- Progressive Systemic Sclerosis.**
 - 4- Sharp Syndrome. Overlap Syndrome.**
 - 5- Systemic Lupus Erythematous.**
 - 6- Phospholipid Antibodies Syndrome.**
 - 7- Sjogren Syndrome.**
- **Vasculitis:**
 - 1- Horton Disease.**
 - 2- Polyarthritis Nodosa.**
 - 3- Takayasu Disease.**
 - 4- Churg - Strauss Syndrome.**
 - 5- Wegner Granulomatosis.**
 - 6- Hyper Sensitivity Vasculitis.**
 - 7- Henoch- Schoenlein Purpura.**
 - 8- Microscopic Polyangiitis.**
 - 9- Bechet Disease.**
- **Amyloid Disease.**
- **An-Articular Rheumatism:**
 - 1- Dupitran Contracture.**
 - 2- Carpal Tunnel Syndrome.**
 - 3- Guyon Tunnel Syndrome.**
- **Febromyaolgia.**

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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.



9th Course: Hematology Diseases (Internal Medicine 9)

Course Title And Code:

Hematology Diseases (Internal Medicine 9).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the pathologies of common hematology 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 hematology diseases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

- **Hematopoiesis:**
 - 1- Stem Cell.**
 - 2- Bone Marrow.**
 - 3- Erythropoiesis.**
 - 4- Thrombopoiesis.**
 - 5- Granulopoiesis.**
- **Mature Cells.**
- **Erythrocytes:**
 - 1- Red Blood Cell Indices.**
 - 2- Reticulocytes.**
- **White Blood Cells:**
 - 1- Neutrophils.**
 - 2- Neutrophilia.**
 - 3- Neutropenia.**
 - 4- Eosinophils.**
 - 5- Hyper Eosinophilia.**
 - 6- Basophils.**
 - 7- Basophilia.**
 - 8- Basopenia.**
 - 9- Monocytes.**
 - 10- Monocytosis.**
 - 11- Monocytopenia.**
 - 12- Lymphocytes.**
 - 13- Lymphocytosis.**
 - 14- Lymphopenia.**
- **Platelets.**



• **Hematological Investigations:**

- 1- **Complete Blood Count.**
 - 2- **ESR.**
 - 3- **Peripheral Smear.**
 - 4- **Bone Marrow Aspirate.**
 - 5- **Bone Marrow Biopsy.**
 - 6- **Hemoglobin Electrophoresis.**
 - 7- **Direct Coombs Test.**
 - 8- **Indirect Coombs Test.**
- **Anemia.**
- **Microcytic Anemia:**
- 1- **Iron Deficiency Anemia.**
 - 2- **Anemia Of Chronic Disease.**
 - 3- **Sideroblastic Anemia.**
 - 4- **Thalassemia.**
 - 5- **Lead Toxicity.**
- **Normocytic Anemia:**
- 1- **Anemia In Renal Disease.**
 - 2- **Anemia In Endocrine Disease.**
 - 3- **Anemia In Joint Disease.**
- **Macrocytic Anemia:**
- 1- **Vitb12 Deficiency.**
 - 2- **Folate Deficiency.**
- **Aplastic Anemia.**
- **Hemolytic Anemia:**
- 1- **Inherited Hemolytic Anemia.**
 - 2- **Red Cell Membrane Defect.**
 - 3- **Hereditary Spherocytosis.**
 - 4- **Hereditary Elliptocytosis.**
 - 5- **Abnormal Hemoglobin.**

6- Thalassimia.

- 7- **β -Thalasseemias.**
 - 8- **Thalasseemias- α .**
 - 9- **Sickle Cell Anemia.**
 - 10- **Red Cell Enzymopathy.**
 - 11- **G6pd Deficiency.**
 - 12- **Pyruvate Kinase Deficiency.**
 - 13- **Acquired Hemolytic Anemia.**
 - 14- **Autoimmune Hemolytic Anemia.**
 - 15- **Warm Autoimmune Hemolytic Anemia.**
 - 16- **Cold Autoimmune Hemolytic Anemia.**
 - 17- **Non- Immune Hemolytic Anemia.**
 - 18- **Paroxysmal Nocturnal Hemoglobinuria.**
 - 19- **Mechanical Hemolytic Anemia.**
 - 20- **Mechanical Hemolytic Anemia.**
 - 21- **Thrombotic Thrombocytopenic Purpura Ttp.**
 - 22- **Uremic Syndrome Hemolytic Hus.**
- **Infection Mononuclosis.**
- **Myelodysplastic Syndrome.**

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• **Myeloproliferative Syndromes:**

- 1- **Vera Polycythemia.**
 - 2- **Secondary Polycythemia.**
 - 3- **Essential Thrombocythemia.**
 - 4- **Myelofibrosis.**
- **Leukemias.**
- **Acute Leukemia:**
- 1- **Acute Myelogenous Leukemia.**
 - 2- **Acute Lymphoblastic Leukemia.**
- **Chronic Leukemia:**
- 1- **Chronic Lymphocytic Leukemia.**
 - 2- **Chronic Myelogenous Leukemia.**
 - 3- **Hairy Cell Leukemia.**
- **Lymphomas:**
- 1- **Hodgkin's Lymphoma HL.**
 - 2- **Non Hodgkin's Lymphoma NHL.**
 - 3- **Indolent Lymphoma.**
 - 4- **Follicular Lymphoma.**
 - 5- **Nodal Marginal Zone Lymphoma.**
 - 6- **Lymphoplasmacytic Lymphoma.**
 - 7- **Chronic Lymphocytic Leukemia.**
 - 8- **Aggressive Lymphoma.**

9- **Diffuse Large Cell Lymphoma.**

- 10- **Burkitt Lymphoma.**
 - 11- **Anaplastic Large Cell Lymphoma.**
- **Multiple Myeloma.**
- **Macroglobulinaemia.**
- **Bone Marrow Transplantation.**
- **Anti Tumor Drugs.**
- **Disorders Of Hemostasis:**
- 1- **Primary Hemostatic.**
 - 2- **Secondary Hemostasis.**
 - 3- **The Fibrinolytic System.**
- **Platelet Disorders:**
- 1- **Thrombocytopenia.**
 - 2- **Auto Immune Thrombocytopenic Purpura.**
 - 3- **Thrombotic Thrombocytopenic Purpura.**
 - 4- **Platelet Function Disorders.**
- **Hereditary Coagulation Disorders:**
- 1- **Hemophilia A.**
 - 2- **Hemophilia B.**
 - 3- **Von Willebrand's Disease.**
- **Acquired Coagulation Disorders:**
- 1- **Vit K Deficiency.**
 - 2- **Disseminated Intravascular Coagulation.**
- **Excessive Fibrinolysis.**

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- **Vascular Disorders And Henoch-Schoenlein Purpura.**
- **Thrombosis:**
 - 1- **Inhibitors Of Coagulation.**
 - 2- **Anti Thrombotic Therapy.**
- **Complication Of Blood Transfusion And Massive Transfusion.**
- **Blood Components And Blood Products.**
- **Storage Diseases:**
 - 1- **Amyloidosis.**
 - 2- **Histiocytosis.**
- **Porphyria.**
- **Met Hemoglobinemia.**

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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10th Course: Orthopedics And Fractures And Traumatology And Pediatrics And Reconstruction Surgery (Surgical Diseases 4)

Course Title And Code:

Orthopedics And Fractures And Traumatology And Pediatrics And Reconstruction Surgery (Surgical Diseases 4).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the pathologies of common Musculoskeletal and common pediatric surgical diseases, manifestations, differential diagnosis, the investigation means tools needed and their treatment. And will understand the principles of diagnosis and management of trauma and fracture lesions, and the principles of plastic and reconstructive surgery.**
- 2- Acquire the skills which enable him to approach the patient clinically, and help him to diagnose various Musculoskeletal, common pediatric surgical diseases and common plastic surgical cases.**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

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Course Description:

Orthopedic Surgery:

- **Clinical Examination & Diagnosis In Orthopedics.**
- **Osteo-Articular Infections.**
- **Degenerative Disorders.**
- **Osteochondrosis & Avascular Necrosis.**
- **Tendons, Ligaments And Soft Tissue Disorders.**
- **Bone & Soft Tissue Tumors.**
- **Peripheral Nerve Injuries.**
- **Hip Diseases.**
- **Knee Diseases.**
- **Foot And Ankle Diseases.**
- **Shoulder And Elbow Diseases.**
- **Wrist And Hand Diseases.**
- **Spine Diseases.**

Traumatology:

- **Fracture Introduction & General Principles In Fracture Treatment.**
- **Complications Of Fractures.**
- **Upper Limb Injuries:**
 - 1- **Injuries Of The Shoulder.**
 - 2- **Injuries Of The Arm.**
 - 3- **Injuries Of The Elbow.**
 - 4- **Injuries Of The Forearm.**
 - 5- **Injuries Of The Wrist.**
 - 6- **Injuries Of The Hand.**

• **Injuries Of The Lower Limb:**

- 1- **Injuries Of The Pelvis.**
- 2- **Injuries Of The Hip.**
- 3- **Injuries Of The Femur.**
- 4- **Injuries Of The Knee.**
- 5- **Injuries Of The Leg.**
- 6- **Injuries Of The Ankle.**
- 7- **Injuries Of The Foot.**

• **Injuries Of The Spine.**

Pediatrics Surgery:

- **Common Pediatric Surgical Conditions.**
- **Infantile Hypertrophic Pyloric Stenosis.**
- **Inguinal Hernia.**
- **Intussusception.**
- **Acute Abdomen.**
- **Congenital Malformations.**
- **Esophageal Atresia.**
- **Congenital Diaphragmatic Hernia.**
- **Hirschsprung's Disease.**
- **Anorectal Malformations.**
- **Pediatric Surgical Oncology.**
- **Nephroblastoma.**
- **Neuroblastoma.**

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Plastic And Reconstructive

Surgery:

- **Cicatrization:**
 - 1- Cicatrization.
 - 2- Affecting Factors.
 - 3- Pathologic – Keloids.
 - 4- Treatment.
- **Skin Lesions:**
 - 1- Principles Of Suturing.
 - 2- Skin Grafts.
 - 3- Skin Flaps.
- **Face Anomalies:**
 - 1- Congenital Anomalies.
 - 2- Trauma.
 - 3- Reconstruction /Nose - Ear - Lip/.

- **Burns:**

- 1- Pathophysiology.
- 2- Clinical Grades.
- 3- Topical & General Treatment.
- 4- Complication.
- 5- Electrical Burns.

- **Hand Surgery:**

- 1- Principals.
- 2- Trauma.
- 3- Infections.
- 4- Dystrophy.
- 5- Congenital.

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.



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11th Course: Forensic Medicine

Course Title And Code:

Forensic Medicine.

Credit Hours:

3 theoretical hours/week (18 weeks) - 20 hours clinical training - 1 hour/week practical.

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Acquire the necessary knowledge of basics of forensic medicine.**
- 2- Acquire the ability to take actions regarding forensic medical practice.**
- 3- Acquire the skills of the forensic medical practice.**

Course Description:

- Introduction To Forensic Medicine, Specialists & Crime Scene Investigation.**
- Thanatology , Introduction , Types Of Death , Postmortem Changes And Estimation Of Time Since Death.**
- Forensic Autopsy , Exhumation , Medico-Legal Report.**
- The Degree Of Disability , Permanent Disability Estimation (Forensic Concept) For Judiciary , Social Insurance.**
- Suspicious Death & Sudden Death.**
- The Pathology Of Wound (Definition , Mechanism , Classification).**
- Regional Injuries: Head And Spinal Injuries, Chest And Abdominal Injuries , Falls From Height.**
- Transportation Injury.**
- Firearm Injury.**
- Asphyxia Death: Pathophysiology, Hanging, Strangulation , Suffocation , Smothering – Choking -**

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- Traumatic Asphyxia , Drowning.**
- Thermal Injuries , Burns , Hypothermia.**
- Starvation And Neglect.**
- Injuries Electricity.**
- Sexual Offence And Deviations.**
- Pregnancy And Delivery , Abortion , Infanticide , Child Abuse.**
- Identification, DNA Finger Printing. Trace Evidence (Biological Materials).**
- Toxicology: Poisonings & Intoxication Signs Symptoms, And Management.**
- Metallic , Semi-Metallic And Corrosive Poisons**
- Gaseous Poisons. : CO – CO2 – Cyanide.**
- Inebriant: Alcoholic Intoxication , Methanol , Ethylene Glycol.**
- Agrochemical Poisoning: Pesticides.**
- Poisoning By Medicines.**
- Drug Dependence And Drug Abuse.**
- Oil Preparation Poisoning.**

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.**
- 5- Professional ethics.**

Teaching & Training Methods:

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

Assessment Strategy And Credits:

100 credits:

Clinical examination 30 credits:

Through practical evaluation.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.

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12th Course: Mental Illness (Psychiatry)

Course Title And Code:

Mental Illness (Psychiatry).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Take a full psychiatric history, the mental state examination and describe the symptoms and signs and features of psychiatric state including cognitive assessment and evaluation of thinking ,speech , language , mood ,perception , behavior, insight , and able to determine the normal status from pathological.**
- 2- Know the etiological factors, a plan of management and assessment expected prognosis. -Summarize and provide systematically the mental state examination to another specialist and write him in medical records.**
- 3- Diagnose and discriminate the psychiatric disorders from organic neurological disorders.**
- 4- Diagnose and provide Psychiatry emergency and evaluate specific cases and outpatients and cases to consult another specialist.**
- 5- Prescribe different therapeutic approaches (pharmacological, psychiatry and cognitive behavioral, ECT, educating the patient and family) and where applied according to principles of evidence based medicine.**
- 6- Provide Differential diagnosis of psychiatric disorders.**
- 7- Prescribe psychotropic medication: appropriate, safe, effective and economical.**

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- 8- Identify the principles of psychiatric disability and evaluation insight, the mental judgment.**
- 9- Evaluate patient capacity to make a decision in accordance with legislations.**
- 10- Build a data Base helps to continuing medical education in the future.**
- 11- Evaluate the impact of psycho-sociology state on the professional performance of the patient, their family and those around them.**
- 12- Explain laboratory results in addiction patients and others.**
- 13- Explain radiology results in organic Psychiatric patients.**
- 14- Conduct a risk assessment (risk to self and others, and to be competent in the management of acute behavioral disturbance.**
- 15- Screen for common psychiatric illnesses in non-psychiatric settings and recognize where medically unexplained physical symptoms may have psychological origins.**
- 16- Make referrals to psychiatric services.**
- 17- Develop A plan of investigation physical, psychiatric and social for patients who show psychiatric symptoms.**
- 18- Evaluate the information about the family and other social factors relations (employment, education ...)**

Special cases: Knowing how to assess and manage the following clinical situations:

- Student must have (in disasters and crises situations) a high competence in the diagnosis and management of patients after: acute stress disorder , post-traumatic stress disorders , bereavement and grief , the confused patient , the agitated/aggressive patient , the depressed patient , the patient who has recently harmed himself.**

Social attitudes and ethical issues:

- Encourage students to develop appropriate attitudes towards dealing with disasters and crises and psychological stress.**

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- **Develop positive attitudes towards psychiatric disorders And discuss their attitudes toward the stigma.**
- **Awareness that different models of pathological forms lead to a varied response.**
- **Awareness of positive important of family, culture, spirituality on psychological health.**

Course Description:

- **Psychiatric Examination.**
- **Psychiatric Signs And Symptoms.**
- **Schizophrenia Spectrum And Other:**
 - 1- **Psychotic Disorders.**
 - 2- **Schizophrenia -Delusional Disorder.**
 - 3- **Brief Psychiatric Disorder.**
 - 4- **Schizoaffective Disorder- Catatonia.**
- **Bipolar And Related Disorders:**
 - 1- **Bipolar Disorder: Type I - Type II.**
 - 2- **Cyclothymic Disorder.**
- **Depressive Disorders:**
 - 1- **Major Depressive Disorder.**
 - 2- **Premenstrual Dysphonic Disorder.**
 - 3- **Persistent Depressive Disorder (Dysthymia).**
- **Anxiety Disorders:**
 - 1- **Generalized Anxiety Disorder.**
 - 2- **Panic Disorder.**
 - 3- **Specific Phobia Disorder.**
 - 4- **Social Anxiety Disorder.**
 - 5- **Agoraphobia.**
 - 6- **Separation Anxiety Disorder.**
 - 7- **Selective Mutism.**
- **Obsessive-Compulsive And Related Disorders:**
 - 1- **Body Dysmorphic Disorder.**
 - 2- **Trichotillomania Disorder.**
- **Trauma- And Stressor-Related Disorders:**
 - 1- **Adjustment Disorders.**
 - 2- **Acute Stress Disorder.**
 - 3- **Post-Traumatic Stress Disorders.**
 - 4- **Bereavement And Grief.**
- **Dissociative Disorders.**
- **Somatic Symptom And Related Disorders:**
 - 1- **Illness Anxiety Disorder.**
 - 2- **Conversion Disorder - Factious Disorder.**



- **Feeding And Eating Disorders:**
 - 1- **Anorexia Nervosa.**
 - 2- **Bulimia Nervosa.**
 - 3- **Pica.**
- **Elimination Disorders:**
 - 1- **Enuresis.**
 - 2- **Encopresis.**
- **Sleep-Wake Disorders.**
- **Sexual Dysfunctions.**
- **Paraphilic Disorders.**
- **Gender Dysphoria.**
- **Disruptive, Impulse-Control, And Conduct Disorders:**
 - 1- **Oppositional Defiant Disorder.**
 - 2- **Intermittent Explosive Disorder.**
 - 3- **Conduct Disorder.**
 - 4- **Pyromania.**
 - 5- **Kleptomania.**
- **Substance-Related And Addictive Disorders.**
- **Neurocognitive Disorders:**
 - 1- **Delirium.**
 - 2- **Major And Mild Neurocognitive Disorders.**
- **Personality Disorders:**
 - 1- **Cluster A.**
 - 2- **Cluster B.**
 - 3- **Cluster C.**
- **Neurodevelopmental Disorders:**
 - 1- **Intellectual Disabilities: Intellectual.**
 - 2- **Developmental Disorder.**
 - 3- **Communication Disorders.**
 - 4- **Language - Speech Disorders.**
 - 5- **Social Communication.**
 - 6- **Autism Spectrum Disorder.**
 - 7- **Specific Learning Disorder.**
 - 8- **Attention Deficit / Hyperactivity Disorder.**
 - 9- **Child Abuse And Neglect.**
 - 10- **Psychiatric Disorders In Adolescent.**
 - 11- **Motor Disorders Stereotypic.**
 - 12- **Tic Disorders.**
- **Psychiatric Emergencies.**
- **Psychopharmacology.**
- **Psychotherapy.**

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.**

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6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

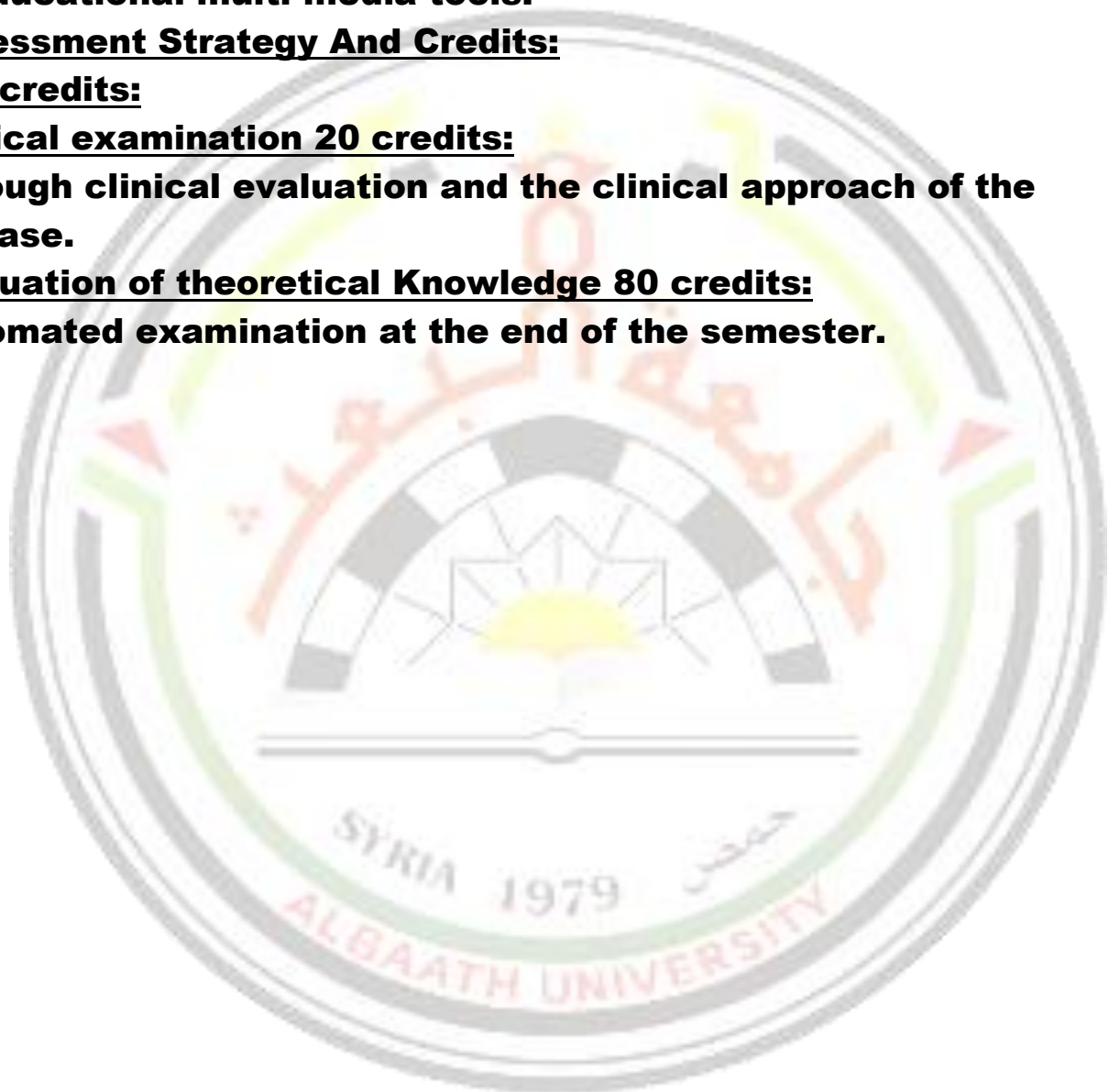
100 credits:

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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13th Course: Pediatrics (2)

Course Title And Code:

Pediatrics (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Acquire knowledge about pediatrics necessary for any physician regardless of his/her later Specialty.**
- 2- Acquire the skills that enables him/her to obtain a case history and perform clinical examination and evaluation of child development.**
- 3- Acquire The ability to synthesize and analyze the information and differential diagnoses.**
- 4- Know how to generally manage diseases of children.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Gastroenterology Disorders.• Infectious Diseases.• Respiratory Disorders.• Cardiac Disorders.• Neurological Disorders• Kidney And Urinary Tract Disorders. | <ul style="list-style-type: none">• Hematological Disorders And Malignancy.• Endocrinology And Metabolism Disorders• Musculoskeletal Disorders |
|---|---|

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.**

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6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

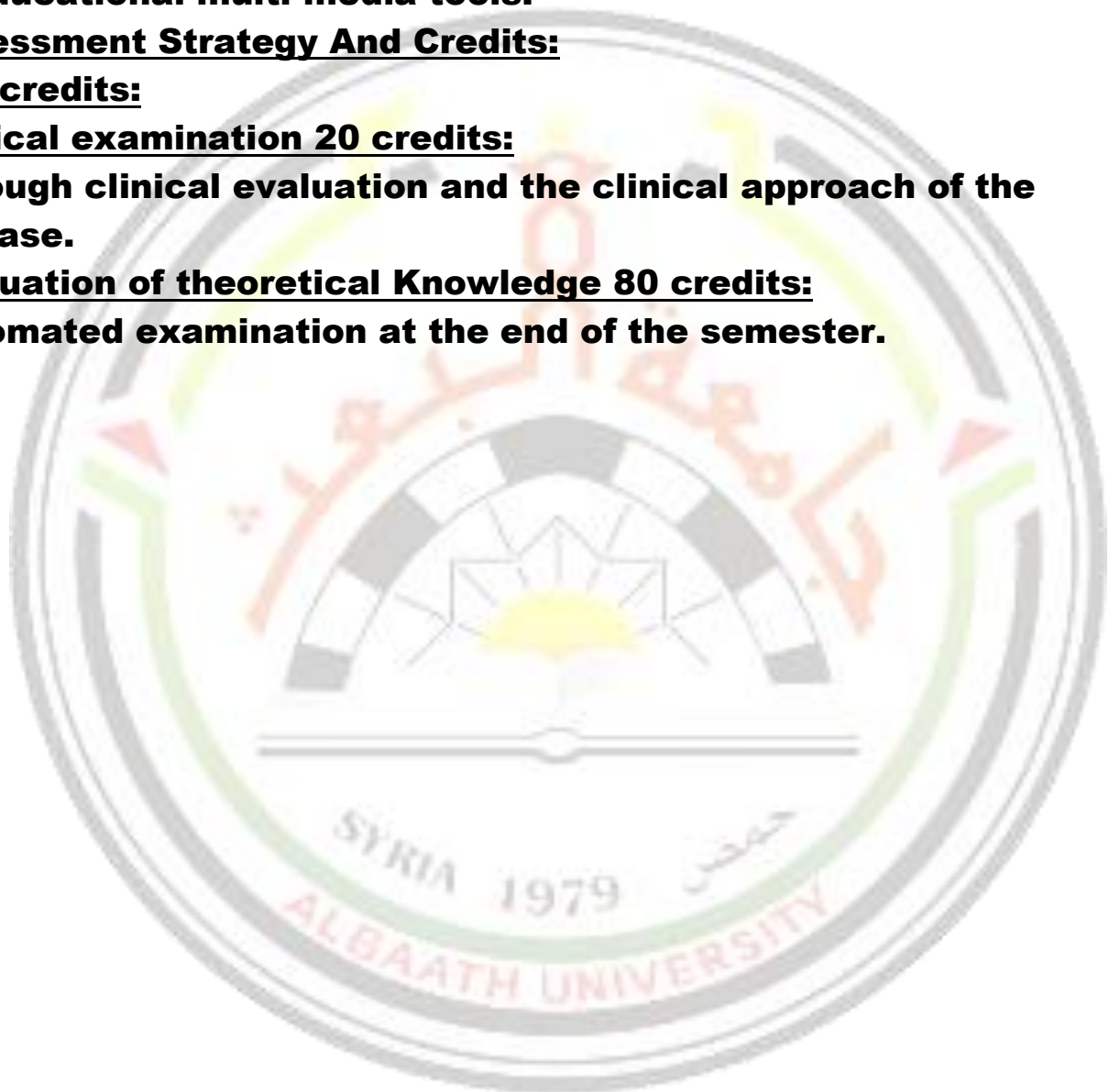
100 credits:

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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14th Course: Medical Imaging And Roentgen Diagnosis 2 (Radiology 2)

Course Title And Code:

Medical Imaging And Roentgen Diagnosis 2 (Radiology 2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

5th year – 1st and 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Diagnose the diseases of breast /mammography/.**
- 2- Diagnose diseases of vertebral column.**
- 3- Diagnose diseases and trauma of upper extremity.**
- 4- Diagnose diseases and trauma of lower extremity.**
- 5- Diagnose urinary system diseases.**
- 6- Diagnose diseases of the skull and the brain.**
- 7- Diagnose children internal and surgical cases.**
- 8- Know the role of radiology in forensic medicine.**
- 9- Diagnose Arthritis diseases.**

Course Description:

- **Diagnosis Of Benign And Malignant Breast Diseases:**
 - 1- Breast Inflammation And Abscesses.**
 - 2- Breast Cysts.**
 - 3- Fibro Adenoma And Lipoma Of Breast.**
 - 4- Breast Cancer.**

- **Diseases And Trauma Of Upper Extremity:**
 - 1- Fractures And Dislocations Of Shoulder Joint.**
 - 2- Fractures And Dislocations Of The Elbow Joint.**
 - 3- Fractures Of The Forearm.**



- 4- Fractures Of The Wrist And Hand.**
- **Diseases And Trauma Of Lower Extremity:**
 - 1- Fractures Of The Pelvis.**
 - 2- Fractures And Dislocation Of The Hip.**
 - 3- Fractures Of The Femur.**
 - 4- Fractures Of The Knee And Cartridge Injuries.**
 - 5- Fractures Of The Foreleg.**
 - 6- Fractures Of The Foot And Ankle.**
- **Radiological Diagnosis Of Vertebral Column:**
 - 1- Degenerative Disease Of Vertebral Column.**
 - 2- Diskettes And Osteomyelitis.**
 - 3- Tumors Of Vertebrae.**
 - 4- Tumors Of Spinal Cord.**
 - 5- Trauma Of Vertebral Column.**
- **Imaging Of Urinary System:**
 - 1- Diagnosis Of Urinary Anomalies.**
 - 2- Urinary Stones.**
- 3- Infections Of Urinary System.**
- 4- Diseases Of Urinary Bladder.**
- 5- Diseases Of Prostate Gland.**
- **Radiological Imaging Of Skull And Nervous System:**
 - 1- Simple X-Ray Of Skull.**
 - 2- CT-SCAN And MRI Of The Brain In Vascular Cases /Intracerebral Bleeding And Infarction/.**
 - 3- Diagnosis Of Extradural, Subdural And Subarachnoid Bleeding.**
 - 4- Diagnosis Of Brain Tumors.**
 - 5- Diagnosis Of MS.**
- **Imaging Of Internal And Surgical Diseases In Children:**
 - 1- RDS In Newborn.**
 - 2- Pharyngeal And Laryngeal Diseases.**
 - 3- Pneumonia In Child.**
 - 4- Esophageal Atresia.**
 - 5- Congenital Pyloric Stenosis.**
 - 6- Intestinal Volvulus.**
 - 7- Hirschsprung Disease.**

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.**

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5- Ability to diagnose common diseases.

6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Practical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

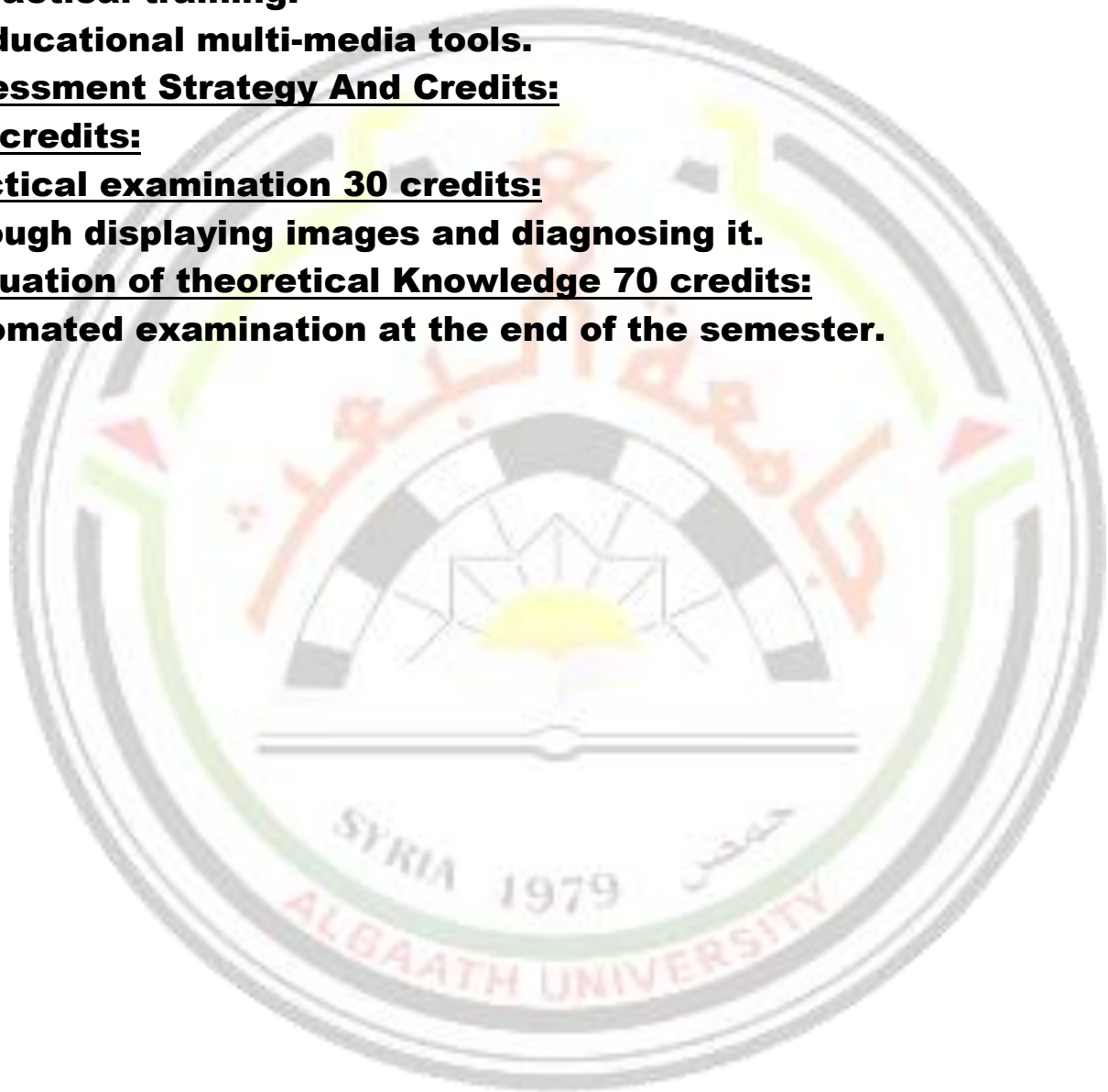
100 credits:

Practical examination 30 credits:

Through displaying images and diagnosing it.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.



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15th Course: Clinical Pharmacology

Course Title And Code:

Clinical Pharmacology.

Credit Hours:

1 theoretical hour/week (36 weeks).

Level/Year At Which This Course Is Offered:

5th year – 1st and 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the mechanism of action of common group of drugs used in treatment of multiple diseases.**
- 2- Acquire the skills that enables him to put the therapeutic plan for some of diseases.**
- 3- Think logically by using of pharmaceutical companions in preventive drug therapy or in definitive drug therapy.**

Course Description:

- | | |
|--|--|
| <ul style="list-style-type: none">• Anti-Depression Drugs.• Antipsychotics Drugs.• Hypnotics.• Anxiolytic Drugs.• Parkinson Disease Drugs.• Antiepileptic Drugs.• Angina Drugs.• Myocardial Infarction Drugs. | <ul style="list-style-type: none">• Anti-Viral Drugs.• Anti-Fungal Drugs.• Peptic Ulcer Disease Drugs.• Anti-Vomiting Drugs.• Anti-Diarrhea Drugs.• Anti-Constipation Drugs.• Blood Drugs.• Asthma Drugs. |
|--|--|

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Clinical cases.**
- 3- Learning to choose the proper treatment.**
- 4- Professional ethics.**

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Teaching & Training Methods:

1- Theoretical course.

2- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

