

Courses Description - 1st Year (Old 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: Medical Physics

Course Title And Code:

Medical Physics.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

1st year – 1st semester.

Course Description:

- **Principles Of Modern Physics.**
- **Atomic Structure - Atomic Characteristics.**
- **Light Science.**
- **UV.**
- **X-Ray And Its Applications.**
- **Thermal Radiation (Infrared).**
- **Terahertz Waves Or Terahertz Rays.**
- **Microwave Waves.**
- **Types And Characteristics Of Lasers.**
- **Laser Imaging.**
- **Laser Applications.**
- **Nucleic Structure And Nuclear Properties.**
- **Radionuclides And Nuclear Medicine.**
- **Material And Hydrodynamics.**
- **Vibration And Wavelet Movements.**
- **Sound: Emission, Hearing And The Sub-Audible Sounds.**
- **Echo Imaging.**
- **Doppler Effect And Blood Velocity Measurement.**
- **Gravel Cutter And Acoustic Power.**
- **Photographic Flexibility In Ultrasound.**
- **Generation Of Magnetic Fields And Properties Of Magnetic Material.**
- **Nuclear Magnetic Response And Magnetic Response Imaging.**
- **Superconductivity: Origin And Applications.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**

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4- Ability to analyze and managing 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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8th Course: General And Organic Chemistry

Course Title And Code:

General And Organic Chemistry.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

1st year – 2nd semester.

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Mol And Equations.• Atomic Structure.• Electrons In Atoms.• Chemical Bonding.• States Of Matter.• Enthalpy Changes.• Oxidation, Reaction And Electrolysis Reactions.• Equilibrium.• Interaction Velocity.• Periodic.• Nitrogen And Sulfur.• Introduction To Organic Chemistry. | <ul style="list-style-type: none">• Hydrocarbons.• Halogenated Alkanes.• Alcohols And Esters.• Carbonyl Compounds.• Ion Balance.• Kinetics Of Interactions.• Transition Metals.• Benzene And Its Compounds.• Carboxylic Acids.• Organic Nitrogen Compounds.• Polymerization.• Biochemistry.• Design And Materials. |
|---|---|

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing data.**

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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.





3rd Course: Cytology

Course Title And Code:

Cytology.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

1st year – 1st semester.

Course Description:

- **Introduction To Cell Biology.**
- **Biochemical Structure Of The Cell.**
- **Structure And Function Of Cell Organelles.**
- **Structure And Function Of The Nucleus.**
- **Cell Membrane.**
- **The Cytoskeleton: Structure, Function, And Cell Locomotion.**
- **Cell Adhesion.**
- **Cell Energetics.**
- **Mitosis And Cell Cycle.**
- **Miosis And Chromosomes**
- **Inheritance.**
- **Cell Signaling.**
- **Differentiation, Stem Cells And Apoptosis.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing data.**

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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.





4th Course: Anatomy (1)

Course Title And Code:

Anatomy (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

1st year – 1st semester.

Course Description:

- **Head And Neck:**
 - 1- Scalp And Face.
 - 2- Neurocranium.
 - 3- Facial Skeleton.
 - 4- Neck Muscles.
 - 5- Neck Joints.
- **Upper Limb And Shoulder:**
 - 1- Shoulder Bone And Shoulder Region.
 - 2- Humerus And Humerus Region.
 - 3- Elbow Joint.
 - 4- Forearm Region.
 - 5- Ulna.
 - 6- Radius.
 - 7- Hand Region.
 - 8- The Wrist.
- **Lower Limb And Pelvic Girdle:**
 - 1- Bones Of The Pelvis: Ilium , Sacrum , Pubic Symphysis.
 - 2- Hip Joint.
 - 3- Femur (Thighbone).
 - 4- Thigh Bone And Thigh Region.
 - 5- Knee Joint.
 - 6- Tibia Bone.
 - 7- Fibula.
 - 8- Leg Region.
 - 9- Ankle Joint.
 - 10- Bone Of Foot And Foot Region.
- **9- Carpal Bones.**
- **10- Metacarpal Bones.**
- **11- Phalanx Bones.**

Educational Outputs The Student Should Acquire:

Acquisition of anatomical concepts of head, neck, upper and lower limbs, their nervous and vascular structures, their arrangement and the muscle layers.

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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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5th Course: Arabic Language

Course Title And Code:

Arabic Language.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

1st year – 1st semester.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Ability to analyze and managing data.**

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.

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6th Course: Foreign Language (1)

Course Title And Code:

Foreign Language (1).

Credit Hours:

4 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

1st year – 1st semester

Educational Outputs The Student Should Acquire:

1- Knowledge and understanding of course topics.

2- Ability to analyze and managing data.

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.



7th Course: Biology

Course Title And Code:

Biology.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

1st year – 2nd semester.

Course Description:

- **Manifestations Of Life.**
- **Concept Of Metabolism.**
- **Viruses.**
- **Bacteria.**
- **Vitamins.**
- **Hormones**
- **Cellular Division.**
- **Reproduction.**
- **Animals And Its Relations With Humans.**
- **Organisms Behaviors.**
- **Solar Energy And Bio system.**
- **Radiation And Bio system.**
- **Modern Biological Sciences And Medicine.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing data.**

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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.



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2nd Course: Genetics And General Embryolog

Course Title And Code:

Genetics And General Embryology.

Credit Hours:

3 theoretical hours/week (18 weeks) – 3 practical hours/week.

Level/Year At Which This Course Is Offered:

1st year – 1st semester.

Course Description:

Genetics:

- **Introduction To Medical Genetics.**
- **Mendelian Inheritance.**
- **Non–Mendelian Inheritance.**
- **Genetic Material And Chromosomes.**
- **DNA Replication.**
- **Transcription.**
- **Translation And Protein Synthesis.**
- **Regulation Of Gene Expression.**
- **Genetic Engineering Technology.**
- **Human Genome.**
- **Chromosomes Abnormality (Aberrations).**
- **Genetic Counseling.**
- **Immunogenetics.**
- **Pharmacogenetics.**

- **Cancer Genetics.**
- **Human Population Genetics.**
- **Genetics Of Common Diseases.**

General Embryology:

- **Anatomical Description Of The Male And Female Reproductive System.**
- **Weddings.**
- **Vaccination.**
- **Division.**
- **Venomous Cyst.**
- **Nesting.**
- **Vaginal And Corneal Formations.**
- **Embryonic Spasms.**
- **Fetal Membranes.**
- **Fetal Age Estimation And Methods Used To Assess Fetal Development.**

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- **Amniotic Fluid.**
- **The Pharyngeal Arches And Form Of The Neck And Form Of The Nose, Palate And Mouth And Thus The Face.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing 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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9th Course: Medical Embryology

Course Title And Code:

Medical Embryology.

Credit Hours:

3 theoretical hours/week (18 weeks) – 3 practical hours/week.

Level/Year At Which This Course Is Offered:

1st year – 2nd semester.

Course Description:

- **Development Of The Respiratory System.**
- **Development Of The Cardiovascular System.**
- **Development Of The Digestive System.**
- **Development Of Musculoskeletal System.**
- **Development Of The Genitourinary System.**
- **Development Of The Nervous System.**
- **Development Of The Senses: Eye - Ear And Skin.**
- **Fetal Malformations.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing 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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10th Course: National Culture

Course Title And Code:

National Culture.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

1st year – 2nd semester.

Educational Outputs The Student Should Acquire:

1- Knowledge and understanding of course topics.

2- Ability to analyze and managing data.

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.

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11th Course: Foreign Language (2)

Course Title And Code:

Foreign Language (2).

Credit Hours:

4 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

1st year – 2nd semester

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Ability to analyze and managing data.**

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.

Courses Description - 2nd Year (Old Study Plan)



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**

Syrian Arab Republic

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1st Course: Physiology (1)

Course Title And Code:

Physiology (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd 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 physiological mechanisms of body organs and systems.**
- 2- Understand mechanisms of disorders of different physiological functions.**
- 3- Follow logical ways of thinking by using theoretical and practical knowledge in order to understand the different physiopathological disorders, as the first step before moving to the clinical study.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Blood Physiology.• Blood Cells, Platelets, Blood Coagulation.• Physiology Of Heart And Circulation.• Immunology And Physiology.• Physiology Of Respiratory System.• Physiology Of Digestion. | <ul style="list-style-type: none">• Mastication, Deglutination, Peristaltic Movements.• Digestive Secretions.• Hepatic And Pancreatic Secretions.• Intestinal Absorption.• Physiology Of Kidney And Urination. |
|---|---|

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing clinical judgment- communication skills.**

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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.





2nd Course: General Histology (Histology 1)

Course Title And Code:

General Histology (Histology 1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd 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 general microscopic structure of different tissues and special structure of some systems and organs.**
- 2- Acquire the practical skills that enables him/her later to understand the pathologic changes occurring in tissue (course of pathology in 3rd year).**

Course Description:

- Preface To Histology.**
- Epithelial Tissue.**
- Connective Tissue.**
- Supportive Tissue.**
- Blood.**
- Muscular Tissue.**
- Nervous Tissue.**
- Endocrine Glandes.**
- Photoreceptor System.**
- Audio Receptor System.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment- communication skills.**
- 4- Ability to analyze and managing data.**

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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.



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3rd Course: Biochemistry (1)

Course Title And Code:

Biochemistry (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd 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 chemical structures of the biomolecules (Proteins, fats, sugars, nucleic acids) that form the structural units of the body.**
- 2- Understand the characteristics, interactions of these molecules and their role in the body.**
- 3- Detect these compounds in the biological solutions based on their properties.**

Course Description:

- Introduction: Water, Chemistry And Cell.**
- Enzymes: Properties, Classification And Mechanism Of Action.**
- Enzymes: Kinetics, Factors Affecting Their Activity And Regulation Of Enzyme Activities.**
- Nucleotides: Structure, Functions And Metabolism.**
- Nucleic Acids: Species, Structure, Functions And Organization.**
- DNA Replication.**
- Biochemistry Of Carbohydrates.**
- Gene Expression And Its Regulation: Transcription And Translation.**
- Chemistry Of Amino Acids And Peptides.**
- Chemistry Of Proteins: Structure, Classification And Specialization.**
- Biochemistry Of Connective Tissue.**

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- **Recombinant DNA Technology And Their Medical Applications.**
- **Biochemistry Of Bone And Cartilage Tissues.**
- **Biochemistry Of Muscular Tissue.**
- **Chemistry Of Lipids And Biological Membranes.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing 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.



4th Course: Anatomy (2)

Course Title And Code:

Anatomy (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd year – 1st semester.

What Is The Main Purposes For This Course:

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

- 1- Describe the anatomy of the viscera in the thorax, abdomen and pelvis and anatomy of the face and neck.**
- 2- Having both theoretical and practical skills, which form a basis for study in the field of surgery, physiotherapy, and forensic sciences in postgraduate stage.**

Course Description:

• **Face And Neck Viscera:**

- 1- Nose And Mouth.**
- 2- Pharynx , Larynx , Trachea , Thyroid , Esophagus.**

• **Chest Wall And Chest Viscera:**

- 1- Lungs.**
- 2- The Upper Mediastinum :
The Aortic Arch And Great Vessels.**
- 3- The Middle Mediastinum :
The Heart.**
- 4- The Posterior Mediastinum:
Esophagus , Bronchus , Sympathetic Trunk , Hemi-Azygos Vein And Pulmonary**

Veins , Thoracic Aorta And Bronchial Arteries.

- 5- Lymphatic Duct.**
- 6- Diaphragm.**

• **Abdominal Wall And Abdominal Viscera:**

- 1- Stomach , Intestines (Duodenum – Jejunum And Ileum) , Colon.**
- 2- Liver And Gallbladder.**
- 3- Pancreas.**
- 4- Spleen.**
- 5- Peritoneum.**
- 6- Kidney And Ureter.**

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• **The Pelvic Viscera:**

1- Bladder , Urethral , Rectum.

2- For Male: Prostate And Seminal Vesicle , Vas Deferens , Urethra , Penis And Testicles.

3- For Female: Ovaries , Uterus , Vagina , Vaginal Vestibule , Clitoris And Urethra , Vulva.

Educational Outputs The Student Should Acquire:

Acquire the anatomical concepts of the abdominal , chest , pelvis , face and neck and the order of nervous and vascular elements and muscle layers.

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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5th Course: Foreign Language (3)

Course Title And Code:

Foreign Language (3).

Credit Hours:

4 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

2nd year – 1st semester.

Educational Outputs The Student Should Acquire:

1- Knowledge and understanding of course topics.

2- Ability to analyze and managing data.

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.

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6th Course: Physiology (2)

Course Title And Code:

Physiology (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the physiological mechanisms of body organs and systems.**
- 2- Understand mechanisms of disorders of different physiological functions.**
- 3- Follow logical ways of thinking by using theoretical and practical knowledge in order to understand the different physiopathological disorders, as the first step before moving to the clinical study.**

Course Description:

- | | |
|--|---|
| <ul style="list-style-type: none">• Neuro-Endocrine Axis.• Pituitary Gland, Development And Growth.• Thyroid Gland And Its Mechanics And Disorders.• Parathyroid Glands.• Calcium And Vitamin D Metabolism. | <ul style="list-style-type: none">• Adrenal Glands.• Sexual Function.• Pancreas And Blood Sugar Regulation.• Physiology Of Muscles, Nervous System And Senses. |
|--|---|

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.**

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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.





7th Course: Specific Histology (Histology 2)

Course Title And Code:

Specific Histology (Histology 2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- To understand the general microscopic structure of different tissues and special structure of some systems and organs.**
- 2- To acquire the practical skills that enables him/her later to understand the pathologic changes occurring in tissue (course of pathology in 3rd year).**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Circulatory System.• Lymphatic System And Lymphoid Organs.• Digestive System.• Respiratory System. | <ul style="list-style-type: none">• Urinary System.• Male Genital System.• Female Genital System.• Integumentary System. |
|---|---|

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics**
- 2- Practical applications**
- 3- Developing logical judgment- communication skills**
- 4- Ability to analyze and managing data**

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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.



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8th Course: Biochemistry (2)

Course Title And Code:

Biochemistry (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the chemical mechanisms and the metabolic pathways of the biological molecules within the body and to evaluate different body systems and organs.**
- 2- Follow a systematic method of thinking for accurate diagnosis of some clinical cases.**

Course Description:

- Clinical Chemistry And Chemical Tests: Body Fluids, Sampling And Variation In Results.**
- Plasma Proteins: Structure And Diagnostic Role.**
- Hemoglobin And Myoglobin.**
- Vitamins: Definition, Classification And Properties.**
- Fat Soluble Vitamins.**
- Water Soluble Vitamins.**
- Aerobic And Anaerobic Glycolysis And Krebs Cycle.**
- Lipid Metabolism.**
- Metabolism Of Lipoproteins And Cholesterol.**
- Metabolism Of Cardiac Muscle.**
- Protein Digestion, Degradation And Their Fate.**
- Other Pathways For Amino Acid Metabolism.**
- Metabolism Of Heme And Bile Pigments: Bilirubin.**
- The Clinical Tests Of Iron And Porphyrines Disorders.**
- Tests Of Liver Functions.**

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- **Minerals: Functions, Metabolism.**
- **Test Of Calcium, Phosphate, Magnesium, Water And Electrolytes.**
- **Tests Of Renal Functions And Urinalysis.**

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Practical applications.**
- 3- Developing logical judgment - communication skills.**
- 4- Ability to analyze and managing 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.



9th Course: Anatomy (3)

Course Title And Code:

Anatomy (3).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

2nd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Describe the anatomy of the brain and spinal cord and identify their major external and internal structures, coverings, fluids and the peripheral and cervical nerves and its pathways.**
- 2- Acquire an overview of the field of neuroanatomy that will serve as a solid foundation for future study of neurological disorders.**

Course Description:

- **Central Nervous System:**
 - 1- The Brain.**
 - 2- Brain.**
 - 3- Cerebellum.**
 - 4- Brain Stem (Medium Brain – Pons And Medulla Oblongata).**
 - 5- Blood Supply.**
 - 6- Lobes Of The Brain.**
 - 7- Cortex.**
 - 8- Deep Structures.**
 - 9- Ventricles.**
 - 10- Cerebrospinal Fluid.**
 - 11- Meninges.**
 - 12- Spinal Cord.**
- **Peripheral Nervous System.**
 - 1- Cranial Nerves.**
 - 2- Spinal Nerves.**
- **Autonomic Nervous System:**
 - 1- Central And Peripheral Sympathetic System.**
 - 2- Central And Peripheral Parasympathetic System.**

Educational Outputs The Student Should Acquire:

Acquire the anatomical knowledge and concepts of the nervous system in all its parts and relations among them.

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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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10th Course: Foreign Language (4)

Course Title And Code:

Foreign Language (4).

Credit Hours:

4 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

2nd year – 2nd semester.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Ability to analyze and managing data.**

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.

Courses Description - 3rd Year

(Old Study Plan)



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**



1st Course: General Pharmacology

Course Title And Code:

General Pharmacology.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

3rd 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 pharmacokinetics in the body.**
- 2- Understand the mechanism of action of drug and how receptors work.**
- 3- Understand drugs interactions and the side effects which may be caused by drugs.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Pharmacokinetics:<ol style="list-style-type: none">1- Absorption2- Distribution3- Metabolism4- Elimination• Time Course Of Drug Concentration; Plasma Half-Life And Steady-State Concentration• Pharmacodynamics:<ol style="list-style-type: none">1- Qualitative Aspects: Receptors, Enzymes, Selectivity.2- Quantitative Aspects: Dose-Response, Therapeutic | <ul style="list-style-type: none">• Efficacy, Potency, Tolerance.• Cholinergic Drugs (Cholinomimetics).• Adrenergic Drugs.• Corticosteroids.• Pain And Analgesics:<ol style="list-style-type: none">1- Opioid Analgesics: Mechanism Of Action.2- Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)• Antibacterial Drugs. |
|---|---|

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Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.**
- 2- Clinical cases.**
- 3- Knowledge of different pharmaceutical.**
- 4- Learning how to get information.**
- 5- Developing logical judgment- communication skills.**
- 6- Ability to analyze and manage data.**
- 7- 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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.

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2nd Course: Microbiology (1)

Course Title And Code:

Microbiology (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

3rd year - 1st semester.

What Is The Main Purposes For This Course:

The aim of this course is to provide the necessary information for the study of medical microbiology and virology. We are concerned with human pathogens, understanding the mechanism of their spread, their pathogenicity, the virulence factors and the diseases resulting from them, the methods of identification of the pathogen, how to diagnose the disease and choose appropriate treatment and vaccines if any. Common bacterial resistances on antibiotics are also mentioned. In addition to theoretical information, the course aims to provide students with laboratory techniques related to microbiology.

Course Description:

- **Introduction.**
- **Bacterial Cell Structure.**
- **Bacterial Physiology And Metabolism.**
- **Bacterial Genetics & Genetic Engineering.**
- **Classification And Taxonomy Of Bacteria.**
- **Bacterial Chemotherapy.**
- **Sterilization & Disinfection.**
- **Relationship Between Host And Infectious Agent.**
- **Gram Positive Cocci, Staphylococcus, Streptococcus, Entérocoques.**
- **Gram Negative Cocci, Neisseria, Moraxella.**
- **Gram Positive Bacilli, Corynebacterium, Listeria, Clostridium, Bacillus, Propionibacterium, Actinomyces, Nocardia.**
- **Enteric Gram-Negative Bacilli, Enterobacteriaceae,**

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- Pseudomonas, Vibrio, Campylobacter, Helicobacter Pylori.**
- **Respiratory Gram-Negative Bacilli, Bordetella, Haemophilus, Legionella.**
- **Anaerobic Bacilli.**
- **Brucella.**
- **Mycobacteria, Mycobacterium Tuberculosis, MOTT, Mycobacterium Leprae.**
- **Spirochetes, Treponema, Borrelia, Leptospira.**
- **Obligate Intracellular Bacteria, Chlamydia, Rickettsia.**
- **Mycoplasma, Urea Plasma.**
- **Applied Bacteriology.**
- **Viruses Structure, Viruses Classification And Taxonomy,**

- Viruses Culture, Diagnosis And Treatment Of Viral Infections.**
- **DNA Viruses, Herpes Viruses, Adenoviruses, Pox Viruses, Papovaviruses, Parvoviruses.**
- **RNA Viruses, Picornaviruses (Enteroviruses And Rhinoviruses), Orthomyxoviruses, Paramyxoviruses (Parainfluenza Viruses, RSV, Measles Virus, Mumps Virus), Arboviruses, Rotoviruses, Rubella Viruses, Reoviruses (Rotaviruses), Hepatitis Viruses, Rabies Virus, Astrovirus, Coronavirus.**
- **Oncoviruses.**
- **Applied Virology.**

Educational Outputs The Student Should Acquire:

- 1- Access to the basic information of microbiology, which is considered the basis for understanding this science.**
- 2- Encourage and train students on how to deal with scientific facts.**
- 3- Encourage students to make a conclusion, interpret the results, and how to present them and discuss them.**
- 4- Make students familiar with laboratory techniques and skills in the field of microbiology, handling of laboratory materials, methods of sterilization and controlling the spread of diseases.**
- 5- Learn how to diagnose the disease, determine treatment, choose the antibiotics.**

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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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3rd Course: Symptoms And Diagnosis

Course Title And Code:

Symptoms And Diagnosis.

Credit Hours:

4 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd 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 methods to communicate with patients.**
- 2- Acquire the skills that enables him/her to examine the patient clinically and help in diagnosing various diseases.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Clinical Approach To Patient And History Taking• General Examination• Symptoms And Signs Of Cardiovascular Diseases. Investigations In Cardiovascular Diseases.• Symptoms And Signs In Respiratory Diseases. Investigations In Respiratory Diseases.• Symptoms And Signs In Digestive System. Investigations In In Digestive System. | <ul style="list-style-type: none">• Symptoms And Signs In Urinary Tract System. Investigations In Urinary Tract System.• Symptoms And Signs In Hematological Diseases. Investigations In Hematological Diseases.• Symptoms And Signs Of The Skeletal System. Investigations In Skeletal System.• Symptoms And Signs Of The Nervous System. Investigations In The Nervous System. |
|---|---|

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- **Symptoms And Signs In Endocrine System.**
Investigations In Endocrine System.

Educational Outputs The Student Should Acquire:

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

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.

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4th Course: Pathological Physiology

Course Title And Code:

Pathological Physiology.

Credit Hours:

3 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd year - 1st semester.

What Is The Main Purposes For This Course:

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

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

- 1- Understand the physiological mechanisms of body organs and systems.**
- 2- Understand mechanisms of disorders of different physiological functions.**
- 3- Explain how main pathologies of physiological systems occur.**
- 4- Follow logical ways of thinking by using theoretical and practical knowledge in order to understand the different physiopathological disorders, as the first step before moving to the clinical study.**

Course Description:

- | | |
|--|---|
| <ul style="list-style-type: none">• Pathophysiology Of Blood Diseases, Immunology, Blood Coagulation.• Pathophysiology Of Cardio Vascular Diseases.• Pathophysiology Of Respiratory System.• Intestinal Absorption And Its Disorders. | <ul style="list-style-type: none">• Pathophysiology Of Gastric And Esophageal Diseases.• Renal Diseases.• Thyroid Gland And Its Disorders.• Parathyroid Glands And Its Disorders.• Adrenal Glands And Its Disorders. |
|--|---|

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- **Sexual Function And Its Disorders.**
- **Pathophysiology Of Diabetes Mellitus.**
- **Pathophysiology Of Muscles, Nervous System And Senses.**

Educational Outputs The Student Should Acquire:

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

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.



5th Course: Medical Statistics

Course Title And Code:

Medical Statistics.

Credit Hours:

2 theoretical hours/week (18 weeks) - 1 practical hour/week.

Level/Year At Which This Course Is Offered:

3rd year - 1st semester.

What Is The Main Purposes For This Course:

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

- 1- Identify Prevalent health problems in community, using various epidemiological strategies, identify determinants of health and principles of different levels of prevention.**
- 2- Acquire the skills that enables him to design scientific research with a scientific method and implement it, then to write a scientific research in a right scientific way.**
- 3- Collect and organize data and understand the statistical tests necessary for scientific research and interpretation of its results.**

Course Description:

- | | |
|---|---|
| <ul style="list-style-type: none">• Introduction To Statistics And Biomedical Statistics.• Types Of Variables And Measurement Scales.• Methods Of Data Collection.• Means Of Summarizing And Presenting Data.• The Population And The Sample.• Related Distributions.• Statistical Inference And Hypothesis Testing. | <ul style="list-style-type: none">• Comparison Of Averages And Ratios.• Interdependence And Forecasting.• Sources Of Data Collection.• Population And Health Sciences.• Medical Records.• Summarizing Data By Tables And Graphs.• Means, Medians And Mode. |
|---|---|

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- **Variances, Standard Deviations And Standard Errors.**
- **Basic Concepts Of Statistical Inference.**
- **Using Samples To Understand Populations.**
- **Confidence Intervals.**
- **Hypothesis Tests.**
- **P-Values.**
- **Statistical Power.**
- **T-Tests.**
- **Chi-Squared Tests For Cross S.**
- **Correlation.**
- **Regression.**
- **Linear Regression.**
- **Survival Analyses.**
- **Kaplan-Meier Survival Curves**
- **Sample Size Issues.**
- **Meta-Analysis.**

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**
- 3- Design and write scientific research with a scientific method.**
- 4- Concept of epidemiology and its applications in -public health.**
- 5- Ability to collect data then, analyze, manage and interpret collected 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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6th Course: Public Health And Occupational Health

Course Title And Code:

Public Health And Occupational Health.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd 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 General principles of Public Health and the pathologies of common Environmental factors affecting health and epidemiology.**
- 2- Acquire the skills that enable him to understand the Healthy management, and programs.**
- 3- Student practicing the ways of logical thinking, in order to use of theoretical knowledge and clinical skills for diagnosis and investigating the professional diseases and determining other factors affecting general health.**

Course Description:

• General Health:

1- Main Principles: I. Definition Of Health And Disease.

2- Determinant Of Health And Disease.

3- Standards Of Health And Disease.

• Epidemiology:

1- . Definition, Importance & Purposes.

2- . Concept Of Causation & Main Epidemiological Models.

3- . Types Of Epidemiological Designs.

4- . Epidemics & Methods Of Investigation.

5- . Epidemiology Of Infectious Diseases.

6- . Scanning & Monitoring.

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• **Health Management:**

- 1- Physician And The Science Of Health Management.**
- 2- Health Planning.**
- 3- Health Evaluation.**
- 4- Health Care Systems.**
- 5- Managing Health Programs And Hospitals.**

• **Environmental Factors**

Affecting Health:

- 1- Healthy Water.**
- 2- Healthy Air.**
- 3- Healthy Food.**
- 4- Healthy House.**
- 5- Healthy School.**
- 6- Professional Health.**
- 7- Other Environmental Factors Affecting Health.**

Educational Outputs The Student Should Acquire:

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

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.

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7th Course: Surgery (1) (Introduction Into Surgery)

Course Title And Code:

Surgery (1) (Introduction Into Surgery).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

3rd year – 2nd 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 many common surgical diseases, manifestations, differential diagnosis, investigation and how to treat. And he will understand the surgical principles and rules.**
- 2- Acquire some surgical skills (wound closure, giving medications by injection...).**
- 3- Acquire some skills relevant diagnosis (Temperature, pressure and pulse measurement...).**
- 4- He will be trained on logical thinking through which he uses his theoretical knowledge, clinical, and practical skills to solve the diagnostic problems.**

Course Description:

- | | |
|--|--|
| <ul style="list-style-type: none">• Surgical Patient's Approach.• Preparing Patient For Surgery.• Vital Signes.• Post-Surgery Care.• Sterilization And Disinfection.• Giving Medications By Injection.• Venous Cut Down.• Central Venous Catheterization. | <ul style="list-style-type: none">• Systems And Rules In Operating Theaters.• Surgical Instruments.• Wound Closure.• Wounds.• Surgical Draining.• Vascular Wounds And Bleeding Management.• Dressing.• Centesis Procedures. |
|--|--|



- **Bites And Stings**
- **Shock.**
- **Transfusion.**
- **Burns.**
- **Cystoscopy And Basic Endourology.**
- **Pressure Sores.**

- **Incision And Drainage Of Abscess.**
- **Local Anesthesia Application.**
- **Paronychia.**
- **Lipoma And Sebaceous Cyst.**
- **Prosthesis In Surgery.**
- **Subungual Foreign Body And Hematoma.**

Educational Outputs The Student Should Acquire:

- 1- **Knowing and understanding of course topics.**
- 2- **Practical applications.**
- 3- **Learning how to get information.**
- 4- **Developing logical judgment- communication skills.**
- 5- **Ability to analyze and manage data.**
- 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 practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.

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8th Course: General Pathological Anatomy (Pathology 1)

Course Title And Code:

General Pathological Anatomy (Pathology 1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

3rd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the general mechanisms of pathogenesis & morphological changes in microscopic structure of various diseases of organs.**
- 2- Acquire the practical skills that enables him later to understand the microscopic changes occurring in systemic pathology (course of Systemic pathology in 4th year).**

Course Description:

- Preface To Pathology.**
- Cell Injury.**
- Adaptation.**
- Apoptosis & Necrosis.**
- Inflammation.**
- Phagocytosis.**
- Growth Factors & Interleukins.**
- Regeneration & Healing.**
- Infections.**
- Sarcoid.**
- Tumors.**
- Hemodynamic Disorders, Thromboembolic Disease, And Shock.**
- Diseases Of Infancy And Childhood.**
- Environmental And Nutritional Diseases.**
- Diseases Of The Immune System.**

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Practical applications.**

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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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9th Course: Microbiology (2)

Course Title And Code:

Microbiology (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

3rd year – 2nd semester.

What Is The Main Purposes For This Course:

In this course students are introduced to the general concepts of parasitology, the relationship of parasitism that arise between living organisms is explained, the study here is limited to living organisms that parasitize humans and are pathogenic to them, the life cycle, pathogenicity, epidemiology, methods of diagnosis and treatment of diseases resulting from them are also studied, as well as the control procedure.

The course also aims at studying the medical fungi, the diseases resulting from it, and how to diagnose and treat it.

Course Description:

Protozoa:

• **Rhizopoda:**

1- Entamoeba Histolytica.

2- Another Entamoeba

Parasitize Human:

- **Entamoeba Coli.**
- **Entamoeba Gingivalia.**
- **Entamoeba Hartmanii.**
- **Entamoeba Polecki.**
- **Dientamoeba Fragilis.**
- **Iodoentamoeba Butschilii.**
- **Endolimax Nana.**

▪ **Blastocystis Hominis.**

3- Free Living Amoeba:

- **Naegleria Fowleri.**
- **Acanthamoeba.**

• **Flagellates, Mastigophora:**

1- Giardia.

2- Another Intestinal Flagellates:

- **Chilomastix Mesnili.**
- **Embadomonas Intestinalis.**
- **Enteromonas Intestinalis.**
- **Trichomonas Intestinalis.**

3- Trichomonas Vaginalis.

4- Leishmania.



5- Trypanosoma.

- **Sporozoa:**

1- **Toxoplasma Gondii.**

2- **Plasmodium.**

3- **Isospora.**

- **Ciliata, Ciliophora (Balantidium Coli).**

Helminthes:

- **Nematoda.**

1- **Ascaris.**

2- **Hookworm:**

- **Ankylostoma Duodenale.**
- **Necator Americanus.**

3- **Cutaneous Larva Migrans.**

4- **Strongyloides Stercoralis.**

5- **Visceral Larva Migrans.**

- **Toxocara Canis.**

6- **Enterobius Vermicularis.**

7- **Trichuria Trichuris.**

8- **Trichinella Spiralis.**

9- **Draculus Medinensis.**

10- **Wucheria Bancrofti.**

11- **Burgia Malayi.**

12- **Loa.**

13- **Onchocera Volvulus.**

- **Trematoda:**

1- **Hepatic Trematoda:**

- **Fasiola Hepatica.**
- **Fasiola Gigantica.**
- **Dicrocoelium Dendriticum.**
- **Opisthorchis Sinensis.**

2- Intestinal Trematoda:

- **Fasciolopsis Buski.**

- **Heterophyes Heterophyes.**

3- Pulmonary Trematoda:

- **Paragonimus Westermani.**

4- Schistosoma:

- **Schistosoma Hematobium.**

- **Schistosoma Mansonii.**

- **Schistosoms Japonicum.**

- **Another Schistosoma: S. Intercalatum, S. Mekongi.**

- **Cestoda:**

1- **Diphyllobothrium Latum.**

2- **Taenia Solium.**

3- **Taenia Saginata.**

4- **Hymenolepsis Nana.**

5- **Echinococcus Granulosus.**

Arthropods:

- **Class Insecta:**

1- **Anopluran:**

- **Pediculus.**

2- **Siphonaptera.**

3- **Hemiptera:**

- **Cimex Lectularis.**

- **Reduviidae: Triatoma.**

4- **Diptera:**

- **Family Culividae:**

- ☒ **Culex.**

- ☒ **Aedes.**

- ☒ **Anopheles.**

- ☒ **Culicoides.**



▪ **Flies:**

- ☒ **Phlebotomus.**
- ☒ **Simulium.**
- ☒ **Chrysops.**
- ☒ **Glossina.**
- ☒ **Musca Domestica.**

5- Myasis.

• **Class Arachnida:**

- 1- Ticks.**
- 2- Demodex.**
- 3- Trombicola.**
- 4- Sarcoptes Scabiei Hominis.**

Fungi:

• **Superficial Mycoses:**

- 1- Tinea Capitis.**
- 2- Tinea Tonsurans.**
- 3- Tinea Favus.**

4- Suppurative Tinea.

5- Tinea Faciei.

6- Tinea Corporis.

7- Tinea Cruris.

8- Tinea Pedis.

9- Tinea Unguium.

10- Tinea Versicolor.

• **Candidiasis.**

• **Deep Mycosis:**

- 1- Coccidioides Immitis.**
- 2- Paracoccidoides Brasiliensis.**
- 3- Aspergillus.**
- 4- Cryptococcus Neoformans.**
- 5- Histoplasma Capsulatum.**
- 6- Sporothrix Schenckii.**
- 7- Pneumocystis Carinii.**

• **Mycetomas**

Educational Outputs The Student Should Acquire:

- 1- Get basic information of parasites.**
- 2- Create a broad base of knowledge and understanding of parasitology.**
- 3- Encourage students to make a conclusion, interpret the results, and how to present them and discuss them.**
- 4- Teach students how to get, handle, preserve, and transport samples.**
- 5- Learn about the techniques for testing, especially the most common ones used in routine laboratory diagnostic work.**
- 6- Practice laboratory techniques and skills in the field of parasitology.**

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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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10th Course: Pathological Chemistry

Course Title And Code:

Pathological Chemistry.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the chemical mechanisms and the metabolic pathways of the biological molecules within the body and to evaluate different body systems and organs.**
- 2- Understand the pathological chemical mechanisms that affect the main pathways in different organs.**
- 3- Follow a systematic method of thinking for accurate diagnosis of some clinical cases.**

Course Description:

- | | |
|---|--|
| <ul style="list-style-type: none">• Vitamins Deficiency And Its Diagnostic Tests.• Tests For Cardiac Vessels And Lipid Disorders.• The Clinical Tests Of Iron And Porphyrines Disorders.• Tests Of Liver Functions.• Minerals And Its Disorders.• Test Of Calcium, Phosphate, Magnesium, Water And Electrolytes. | <ul style="list-style-type: none">• Tests Of Renal Functions And Urinalysis.• Carbohydrates And Their Disorders.• Pancreatitis Disease Tests.• Purine Metabolism Disorder: Gout.• Investigations Of Endocrine Glands Disorders.• Cerebrospinal Fluid Tests. |
|---|--|

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Learning to take the clinical history and getting information.**

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3- Developing clinical judgment- communication skills.

4- Ability to analyze and manage data.

5- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

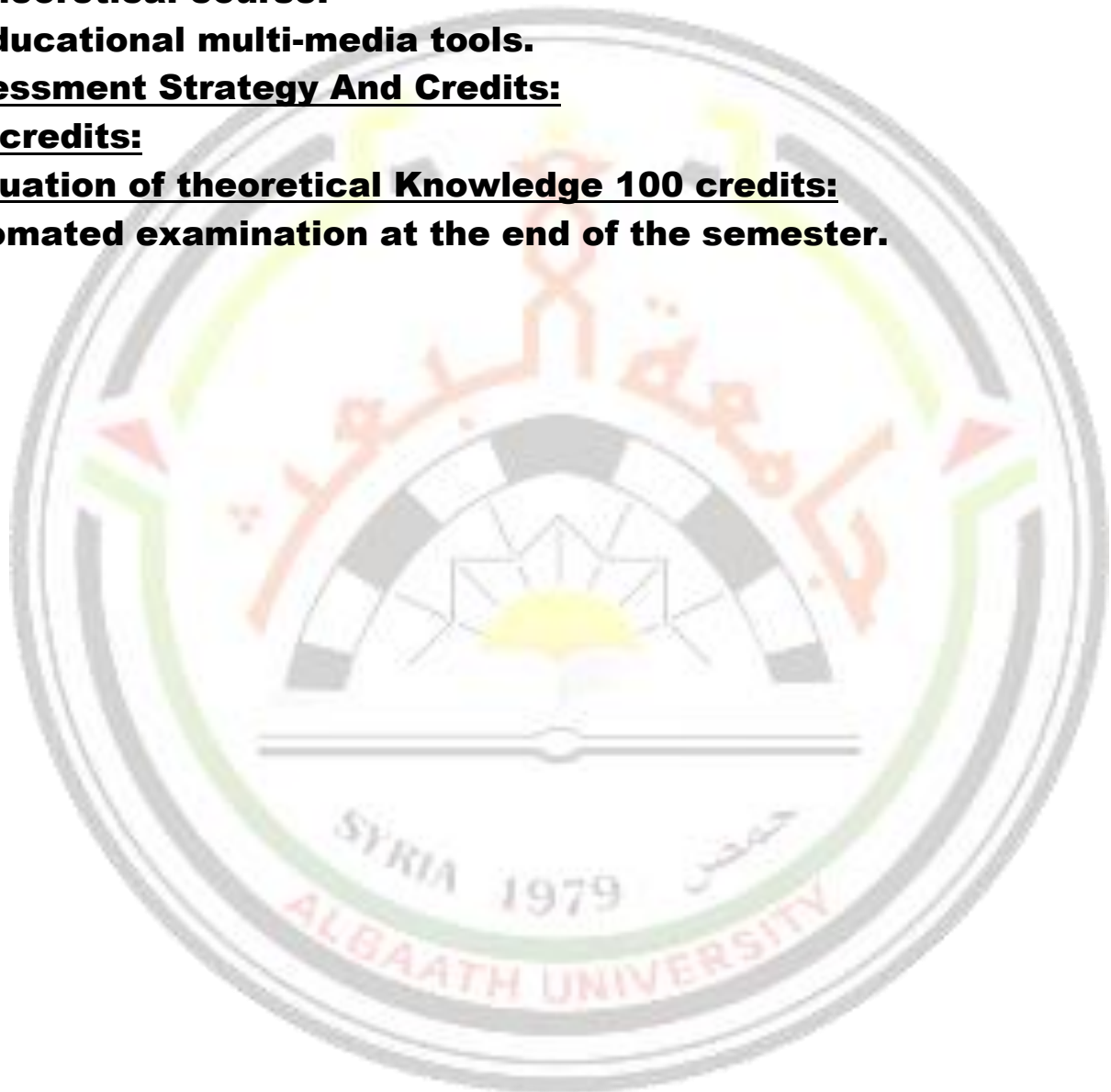
2- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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11th Course: Immunology

Course Title And Code:

Immunology And Blood Analysis.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Understand the normal and pathologic immune responses and understand normal and abnormal hematology.**
- 2- Understand mechanisms that cause disorders of different immune responses and disorders of different blood parameters.**
- 3- Explain mechanisms of natural and pathologic immune responses and different hematologic disorders.**
- 4- Use logical ways of thinking through which he uses of theoretical and practical knowledge in order to understand the different physio pathological disorders of immunity and blood, as the first step before moving to the clinical study.**

Course Description:

- Introduction.**
- Innate Immunity.**
- Hematopoiesis.**
- Lymph Tissues And Immune Cells.**
- Antigens And Immunogens.**
- Humoral Mediated Immunity.**
- Complement.**
- Cell Mediated Immunity.**
- Cytokines.**
- Protective Immunity (For Microorganisms And Tumors).**
- MHC And Organ Transplantation.**
- Immuno-Tolerance And Autoimmune Diseases.**
- Immuno-Competency Assessment.**
- Immuno-Deficiency Disorders.**
- Serology.**

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- **Immunization.**
- **Blood.**
- **Red Blood Cells.**
- **CBC And Blood Smear.**
- **Blood Groups And ABO System.**
- **Rh System And Other Blood Systems.**
- **Hemolytic Disease Of The Fetus And Newborn.**
- **Donation And Blood Transfusion And Its Complications.**
- **Hemostasis And Blood Coagulation.**

Educational Outputs The Student Should Acquire:

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

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.

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12th Course: Medical Ethics And Legislations

Course Title And Code:

Medical Ethics And Legislations.

Credit Hours:

2 theoretical hours/week (18 weeks).

Level/Year At Which This Course Is Offered:

3rd year – 2nd semester.

What Is The Main Purposes For This Course:

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

- 1- Review of Syrian medical and health legislations and laws related to the practice of medical professions.**
- 2- Reviewing the legal, civil, penal and medical responsibility for practicing the medical profession in Syria according to Syrian legislations.**
- 3- Reviewing doctors' duties towards patients, profession, society, colleagues and other health groups and doctors' rights.**
- 4- Reviewing terms and elements of medical secret and its applications.**
- 5- Discussing the most important moral theories of medicine ethics and ethics and knowing the advantages of each.**
- 6- Discussion of the ethical issues in the fields of medicine and health care in daily practice.**
- 7- Discussing ethical medical issues related to life and death, gene therapy, reproduction and organ transplantation.**
- 8- Review and discussing ethical medical issues in the care of people with special needs and oppressed people medical ethics.**
- 9- Reviewing the ethics and terms of applying medical researches and medical ethical committees.**
- 10- Reviewing the terms and components of informed consent by putting forward a plan.**

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Course Description:

- **Medical And Health Legislations.**
- **Legal, Civil, Penal And Medical Responsibility For Practicing The Medical Profession In Syria According To Syrian Legislations.**
- **Medical Secret.**
- **Medical Fault.**
- **The Duties Of Doctors Towards Patients, Profession, Society, Colleagues And Other Health Groups And Doctor's Rights.**
- **Moral Theories Of Medicine Ethics.**
- **Basic Concepts Of Medical Moralities.**
- **Ethical Medical Issues Related To Life And Death.**
- **Modern Genetics And Reproduction.**
- **Medical Issues Related To Some Health Cases.**
- **The Ethics Of Medical Researches And Medical Ethical Committees.**
- **Informed Consent.**

Educational Outputs The Student Should Acquire:

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

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.

Courses Description - 4th Year (Old Study Plan)



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Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**

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1st course Specific Pathological Anatomy

Course Title And Code:

Specific Pathological Anatomy.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 1st 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:

Diseases of the Heart and Blood Vessels.

• Diseases of the Gastrointestinal Tract, Liver, and Gallbladder.

• Diseases of the Respiratory System.

• Diseases of the Female Genital System and Breast.

• Diseases of the Central and Peripheral Nervous System.

• Diseases of the Musculoskeletal System.

• Diseases of the Endocrine Glands.

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• **Diseases of the Blood and Reticule-Endothelial Tissues.**
• **Diseases of the Kidney and Its Collecting System.**

• **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.



2nd 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:

4th 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 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:

- | | |
|--|---|
| <ul style="list-style-type: none">• Bases Of Clinical Gastrointestinal Examination.• Essential Gastrointestinal Diagnostic Tests.• Gastrointestinal Endoscopy.• Abdominal Echography.• Esophageal Manometers.• Endoscopic Retrograde.• Cholangiopancreatography (ERCP). | <ul style="list-style-type: none">• Diseases Of The Small Intestine.• Clinical Examination Of The Abdomen For Liver And Biliary Diseases.• Investigation Of Liver And Hepatobiliary Diseases.• Symptoms And Signs In Liver Diseases. |
|--|---|

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- | | |
|---|---|
| <ul style="list-style-type: none">• Endoscopic Ultrasound.• Magnetic Resonance Cholangiopancreatography.• Symptoms And Signs In Gastrointestinal Diseases.• Diseases Of The Mouth And Salivary Glands.• Diseases Of The Esophagus.• Diseases Of The Stomach And Duodenum.• Colon And Rectum Diseases.• Diseases Of The Peritoneal Cavity.• Diseases Of The Pancreas. | <ul style="list-style-type: none">• 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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

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3rd 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:

4th year - 1st 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:

- | | |
|--|---|
| <ul style="list-style-type: none">• Liver Surgical Diseases.• Gallbladder & Biliary Tract Diseases.• Pancreas Diseases.• Spleen Surgical Diseases.• Vermiform Appendix.• Life Threatening Disorders: GI Bleeding – Shock – Intestinal | <ul style="list-style-type: none">• Lesions Of Small Intestine And Mesentery.• Lesions Of Large Intestine.• Lymphoma & Surgery.• Acute Abdomen.• Peritonitis And Intraabdominal Abscesses.• Abdominal Trauma \Diagnosis, |
|--|---|

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Obstruction.

- Wound Infection, Antibiotics.
- Fluid And Electrolytes Acid – Base Balance.
- Esophagus Surgical Diseases, Hiatus Hernias.
- Stomach And Duodenum Surgical Diseases.

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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

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4th 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:

4th year – 1st 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:

- | | |
|--|--|
| <ul style="list-style-type: none">• Physiology Of Pregnancy.• Normal Pregnancy, •Diagnosis, Clinical Signs And Diagnostic Tests.• Pregnant Care, Follow-Up & Intrauterine Growth.• Medication & Pregnancy.• Pregnancy & Internal And Surgical Diseases. | <ul style="list-style-type: none">• Obstetric Interventions.• Abnormal Labor: Fetal-Pelvic Disproportion, Abnormal Presentations, Premature Rupture Of Membranes.• Labor Induction •Surgical Termination Of Pregnancy, Cesarean Section & Obstetric Hysterectomy. |
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- | | |
|--|---|
| <ul style="list-style-type: none">• Abnormal Pregnancy, Ectopic Pregnancy, Miscarriages & Hydatidiform Mole.• High-Risk Pregnancies, Hemorrhages, Preterm Labor, Post Term Pregnancy.• Labor & Natural Childbirth.. | <ul style="list-style-type: none">• 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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

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5th Course: Pediatrics (1)

Course Title And Code:

Pediatrics (1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th 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:

- | | |
|---|---|
| <ul style="list-style-type: none">• History And Clinical Examination.• Normal Child Development.• Developmental Problems.• Growth And Disorders. | <ul style="list-style-type: none">• 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.**

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

6th course -Foreign Language.

7th course -Military training

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8th Course: Cardiovascular and Respiratory Diseases (Internal Medicine 2)

Course Title And Code:

Cardiovascular and Respiratory Diseases (Internal Medicine 4).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 2nd 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 and 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 heart and respiratory 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">• Bases Of Clinical Cardiology Examination.• Basic Cardiac Diagnostic Tests.• ECG Interpretation – Stress Test.• Echocardiography (2-D | <ul style="list-style-type: none">• Hypertension.• Ischemic Heart Disease.• Investigations In Respiratory Diseases.• Acute Bronchitis.• Pneumonia.• Viral Pneumonia. |
|---|---|

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ECHO).

- **Coronary Angiography.**
- **Cardiac Stress Tests And Nuclear Cardiology.**
- **Arrhythmias.**
- **Pacing Techniques.**
- **Coronary Artery Disease Risk Factors.**
- **Sudden Death.**
- **Heart Failure And Cardiomyopathies.**
- **Valvular Heart Disease.**
- **Pericardial Diseases.**
- **Pulmonary Embolism.**
- **Pulmonary Hypertension.**
- **Adult Congenital Heart Disease.**
- **Infective Endocarditis.**
- **Aortic And Peripheral Arterial Diseases.**
- **Clinical Approach Of Respiratory Disease.**

- **Hydatid Cysts, Amebiasis, Ascariasis.**
- **Carina Pneumocystis.**
- **Pulmonary Abscess.**
- **Pulmonary Tuberculosis.**
- **Chronic Obstructive Pulmonary Disease.**
- **Asthma.**
- **Bronchiectasis.**
- **Lung Cancer.**
- **Pleural Disease.**
- **Mediastinal Disease.**
- **Pulmonary Embolism.**
- **Diffuse Parenchymal Lung Diseases.**
- **Respiratory Failure.**

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:

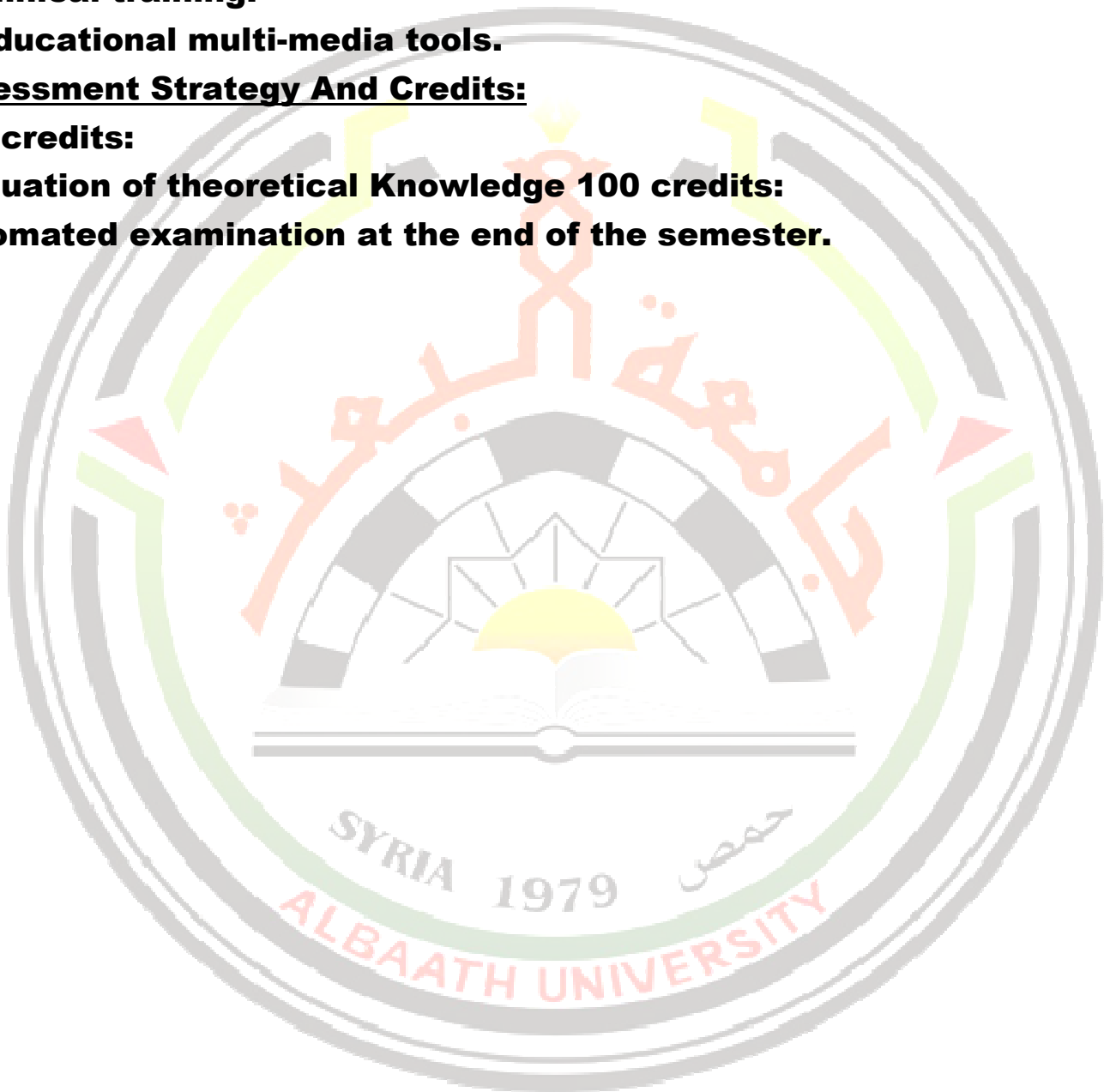
- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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9th 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:

4th year - 2nd 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,

3- Mitral Valve Diseases:

Mitral Stenosis.

Mitral Insufficiency.

4- Tricuspid Valve, Pulmonic

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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

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.

8- Patent Ductus Arteriosus.

9- Coarctation Of The Aorta.

10- Atrial Septal Defects.

11- Ventricular Septal Defects.

12- Tetralogy Of Fallot.

13- Transposition Of The Great Arteries.

•Aortic Dissection.

• Aneurysms Of Thoracic Aorta.

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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.**

Thoracic Surgery:

• Introduction To Respiratory Diseases.

- Congenital Abnormalities Of Respiratory System.**
- Diseases Of The Trachea.**
- Surgical Management Of Infectious Chest Diseases.**
- Lung Cancer.**
- Emphysema.**
- Surgical Diseases Of Pleura.**

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.

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2- Clinical training.

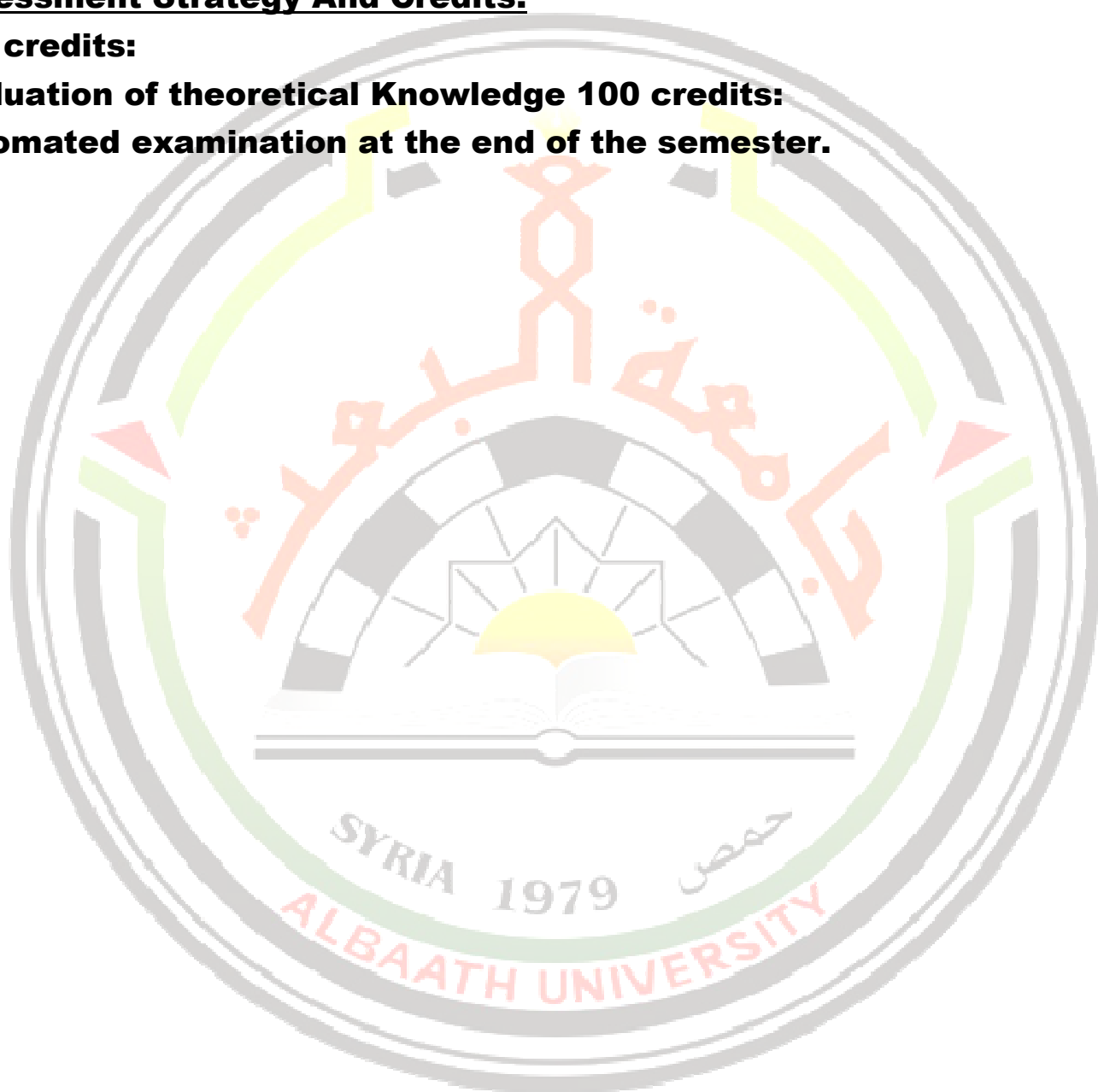
3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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10th 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:

4th year - 2nd 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.

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.

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• 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.

4- Papulosquamous

5- Dermatoses.

6- Psoriasis.

• 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.

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2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:.

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





11th Course: Pediatrics (2)

Course Title And Code:

Pediatrics (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th 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 |
|---|---|

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

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12th Course: Otorhinolaryngology (ENT)

Course Title And Code:

Otorhinolaryngology (ENT)

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year – 2nd 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.**

• The Larynx:

- 1- Anatomy Of The Larynx.**
- 2- Function And Examination Of The Larynx.**
- 3- Diseases Of The Larynx.**

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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.

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.

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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13th Course: Forensic Medicine

Course Title And Code:

Forensic Medicine.

Credit Hours:

3 theoretical hours/week (18 weeks) - 20 hours clinical training - 2 hour/week practical.

Level/Year At Which This Course Is Offered:

4th 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 ,**

- 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**

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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 – Traumatic Asphyxia , Drowning.**

(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.**

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2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

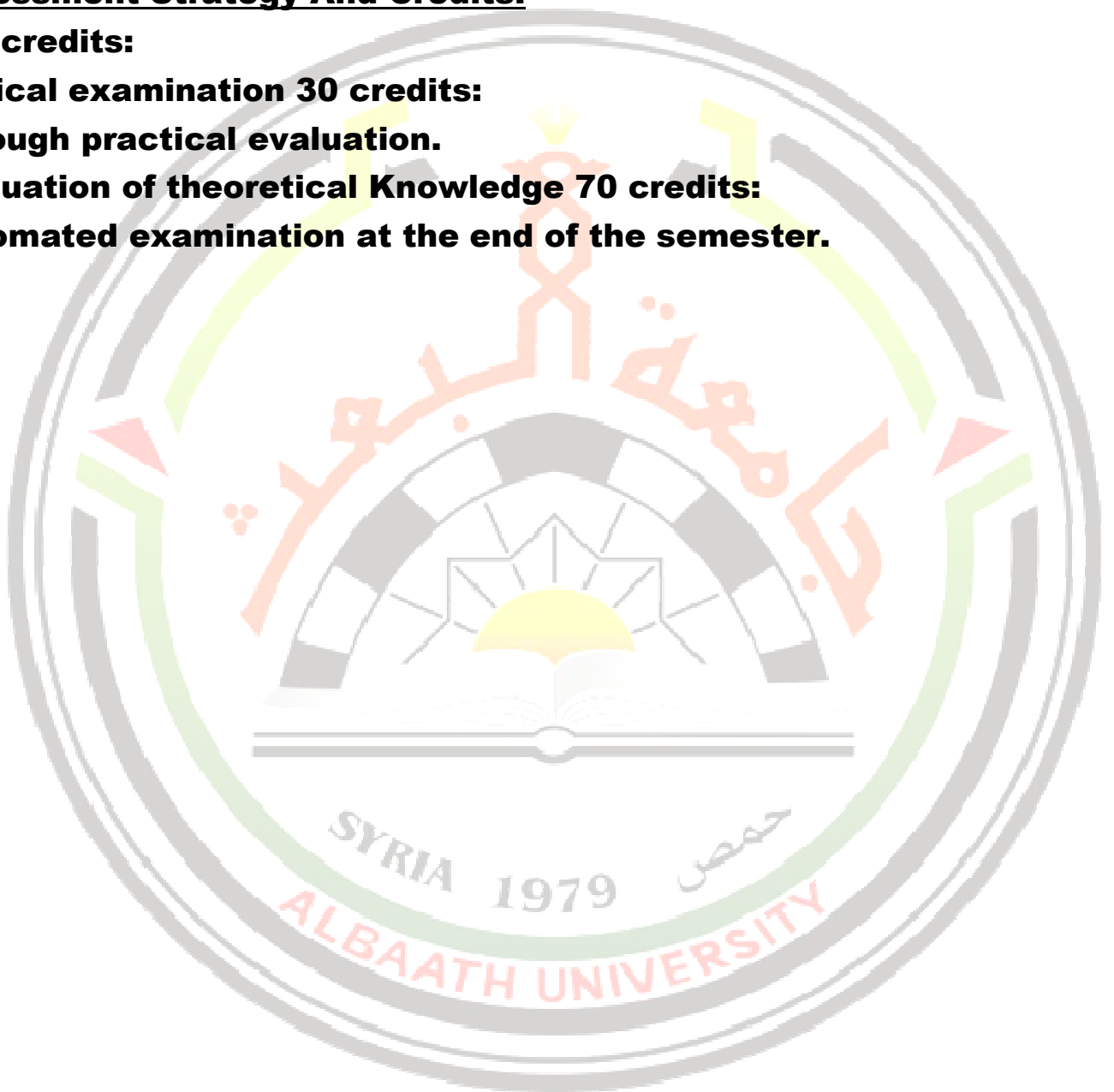
100 credits:

Clinical examination 30 credits:

Through practical evaluation.

Evaluation of theoretical Knowledge 70 credits:

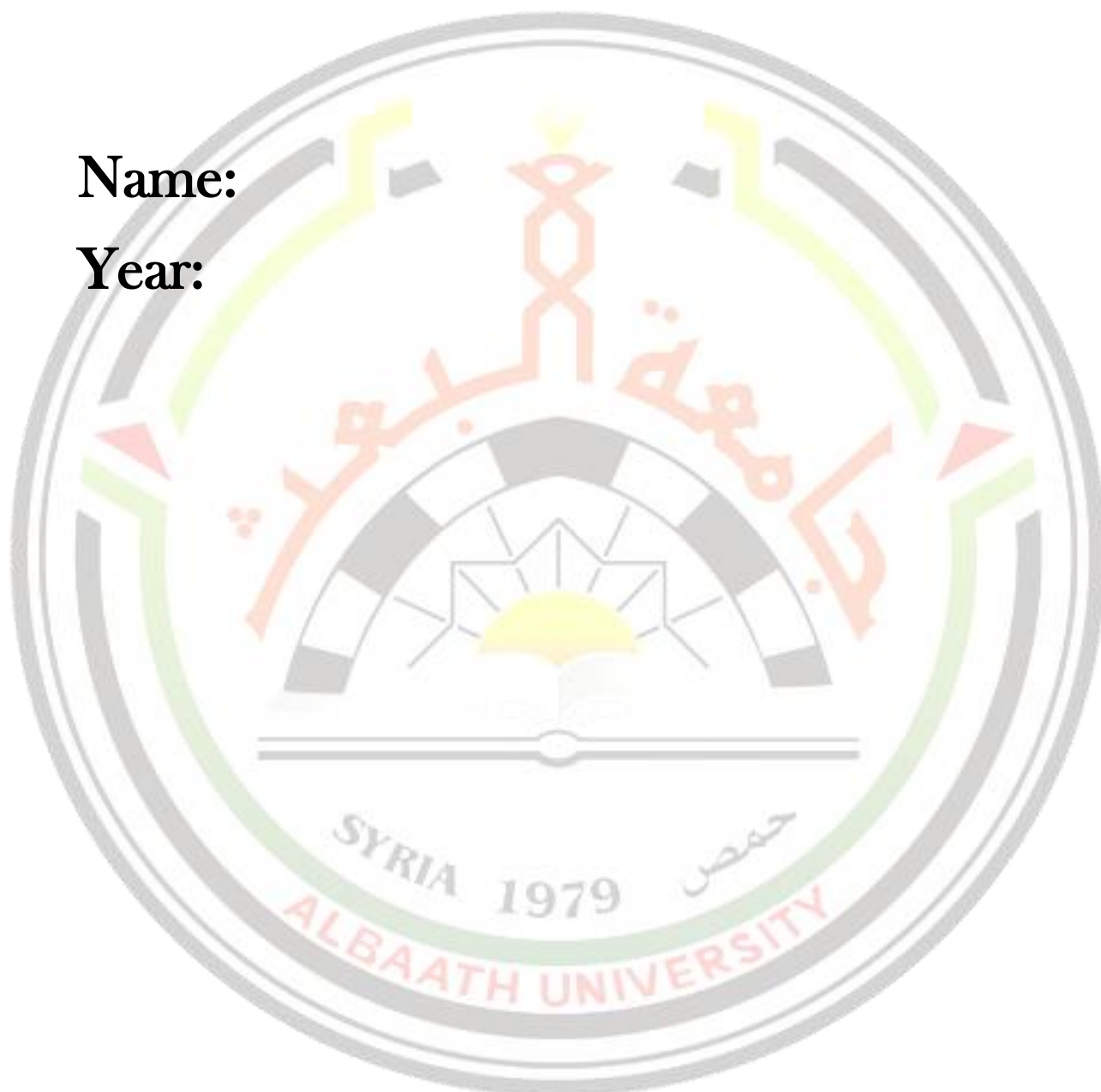
Automated examination at the end of the semester.



Courses Description - 4th Year (Old Study Plan)

Name:

Year:



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**



1st course Specific Pathological Anatomy

Course Title And Code:

Specific Pathological Anatomy.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 1st 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 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:

Diseases of the Heart and Blood Vessels.

• Diseases of the Gastrointestinal Tract, Liver, and Gallbladder.

• Diseases of the Respiratory System.

• Diseases of the Blood and

• Diseases of the Female Genital System and Breast.

• Diseases of the Central and Peripheral Nervous System.

• Diseases of the Musculoskeletal System.

• Diseases of the Endocrine Glands.

• Diseases of the Skin.

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Reticule-Endothelial Tissues.
• Diseases of the Kidney and Its Collecting System.

• Diseases of the Male Genital System.

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.
- 2- Clinical 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.



2nd course Gastrointestinal Diseases and Rheumatology (Internal Medicine 1)

Course Title And Code:

Gastrointestinal Diseases and Rheumatology (Internal Medicine1).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th 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 gastrointestinal diseases, and common Musculoskeletal and autoimmune 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- Understand the principles of diagnosis and management of trauma and fractures, and the principles of reconstructive surgery.**
- 4- Think logically using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

- Bases Of Clinical Gastrointestinal Examination.**
- Essential Gastrointestinal**

- Diseases Of The Small Intestine.**
- Clinical Examination Of The**

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Diagnostic Tests.

- **Gastrointestinal Endoscopy.**
- **Abdominal Echography.**
- **Esophageal Manometers.**
- **Endoscopic Retrograde.**
- **Cholangiopancreatography (ERCP).**
- **Endoscopic Ultrasound.**
- **Magnetic Resonance Cholangiopancreatography.**
- **Symptoms And Signs In Gastrointestinal Diseases.**
- **Diseases Of The Mouth And Salivary Glands.**
- **Diseases Of The Esophagus.**
- **Diseases Of The Stomach And Duodenum.**
- **Colon And Rectum Diseases.**
- **Diseases Of The Peritoneal Cavity.**
- **Diseases Of The Pancreas.**

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.**

Joints and bones diseases:

epidemiology,
pathophysiology, diagnosis,
laboratory,
radiological investigations &
treatment in:

1. **Osteoarthritis & rheumatoid arthritis.**
2. **Systemic lupus erythematosus.**
3. **Systemic scleroderma.**
4. **Sjogren's syndrome.**
5. **Polymyositis.**
6. **Vasculitis.**
7. **Sepsis related arthritis.**
8. **Rheumatic fever.**

11. **Ankylosing spondylitis & psoriatic arthritis**
12. **Spondylopathy and arthropathy in inflammatory bowel disease.**
13. **Crystal arthropathy.**
14. **Non articular rheumatic diseases.**
15. **Internal diseases articular manifestations**
16. **Entrance to metabolic bone diseases:**
osteoporosis, vitamin D deficiency, osteitis fibrosa, renal osteodystrophy.



9. Low back pain.

10. Reactive arthritis & reiter's syndrome.

17. Tumors infiltration bones, Paget's disease.

18. General view of genetic connective tissue 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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

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3rd Course: General Surgery and Abdominal Surgery (Surgical Diseases 2)

Course Title And Code:

General Surgery And Abdominal Surgery (Surgical Diseases 2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 1st 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:

- | | |
|--|--|
| <ul style="list-style-type: none">• Liver Surgical Diseases.• Gallbladder & Biliary Tract Diseases.• Pancreas Diseases.• Spleen Surgical Diseases.• Vermiform Appendix.• Life Threatening Disorders: GI Bleeding – Shock – Intestinal | <ul style="list-style-type: none">• Lesions Of Small Intestine And Mesentery.• Lesions Of Large Intestine.• Lymphoma & Surgery.• Acute Abdomen.• Peritonitis And Intra-abdominal Abscesses.• Abdominal Trauma \Diagnosis, |
|--|--|

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Obstruction.

- Wound Infection, Antibiotics.
- Fluid And Electrolytes Acid – Base Balance.
- Esophagus Surgical Diseases, Hiatus Hernias.
- Stomach And Duodenum Surgical Diseases.

Treatment\.

- Hernias \Types, Treatment\.
- Laparoscopic Surgery – General View.
- Bariatric Surgery.

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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



4th 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:

4th year – 1st 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:

- | | |
|---|---|
| <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Obstetric Interventions.• Abnormal Labor: Fetal-Pelvic Disproportion, Abnormal Presentations, Premature Rupture Of Membranes.• Labor Induction •Surgical Termination Of Pregnancy, Cesarean Section & Obstetric Hysterectomy.• Natural Puerperium. |
|---|---|

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Pregnancy, Miscarriages & Hydatidiform Mole.

- High-Risk Pregnancies, Hemorrhages, Preterm Labor, Post Term Pregnancy.
- Labor & Natural Childbirth..

• 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- 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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



5th 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:

4th 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:

- | | |
|---|---|
| <ul style="list-style-type: none">• History And Clinical Examination.• Normal Child Development.• Developmental Problems.• Growth And Disorders. | <ul style="list-style-type: none">• 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- Clinical applications.**
- 3- Learning to take the clinical history and getting information.**
- 4- Developing clinical judgment- communication skills.**

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5- Ability to analyze and manage data.

6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

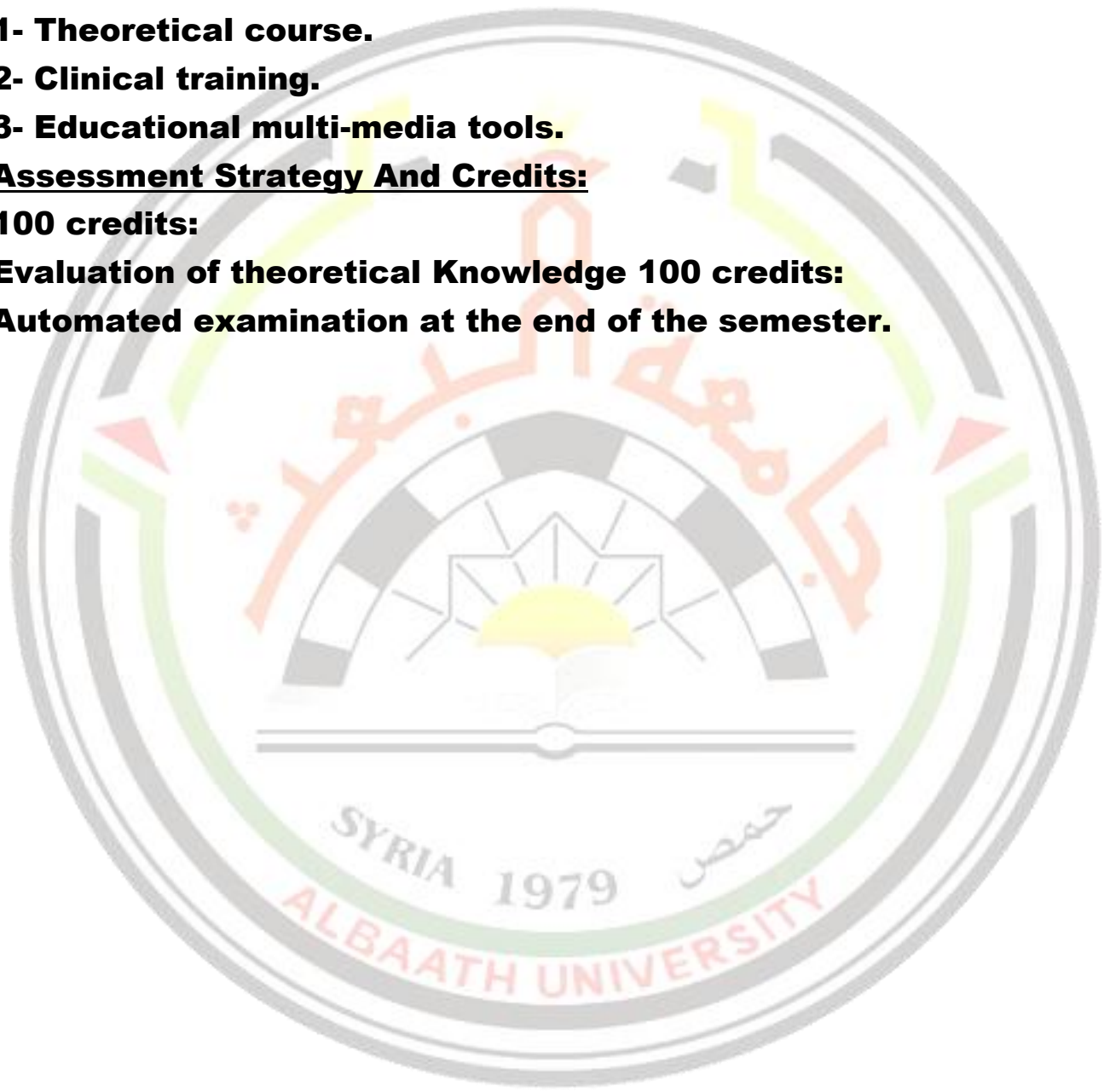
3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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6th 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:

4th year – 1st 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.

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.

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• 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.**
 - 4- Papulosquamous**
 - 5- Dermatoses.**
 - 6- Psoriasis.**

• 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- 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.**

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Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

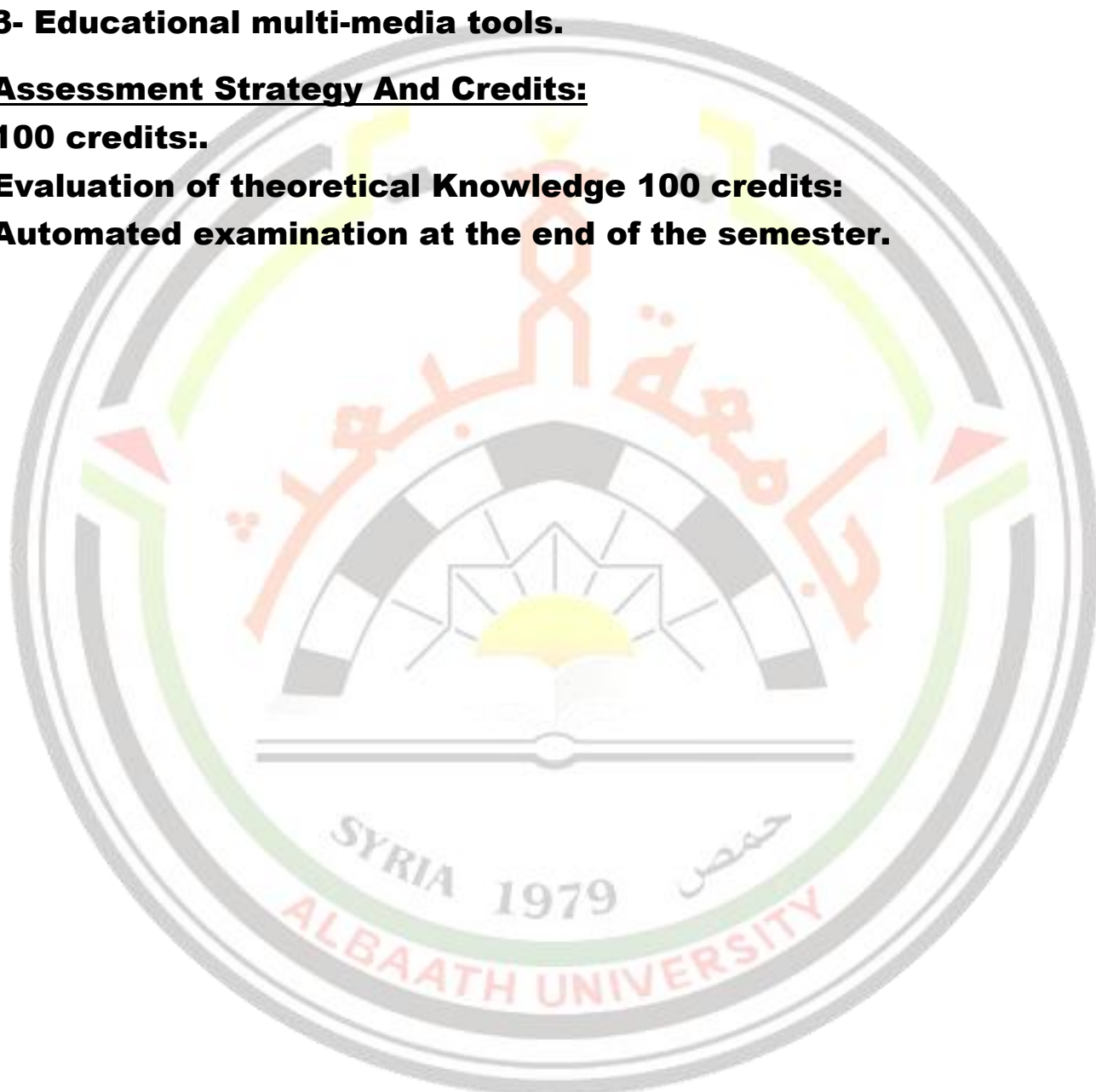
3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:.

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



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7th Course: Cardiovascular and Respiratory Diseases (Internal Medicine 2)

Course Title And Code:

Cardiovascular and Respiratory Diseases (Internal Medicine 2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 2nd 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 and 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 heart and respiratory 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">• Bases Of Clinical Cardiology Examination.• Basic Cardiac Diagnostic Tests.• ECG Interpretation – Stress Test.• Echocardiography (2-D ECHO).• Coronary Angiography. | <ul style="list-style-type: none">• Hypertension.• Ischemic Heart Disease.• Investigations In Respiratory Diseases.• Acute Bronchitis.• Pneumonia.• Viral Pneumonia.• Hydatid Cysts, Amebiasis, |
|---|--|

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- **Cardiac Stress Tests And Nuclear Cardiology.**
- **Arrhythmias.**
- **Pacing Techniques.**
- **Coronary Artery Disease Risk Factors.**
- **Sudden Death.**
- **Heart Failure And Cardiomyopathies.**
- **Valvular Heart Disease.**
- **Pericardial Diseases.**
- **Pulmonary Embolism.**
- **Pulmonary Hypertension.**
- **Adult Congenital Heart Disease.**
- **Infective Endocarditis.**
- **Aortic And Peripheral Arterial Diseases.**
- **Clinical Approach of Respiratory Disease.**

- **Ascariasis.**
- **Carina Pneumocystis.**
- **Pulmonary Abscess.**
- **Pulmonary Tuberculosis.**
- **Chronic Obstructive Pulmonary Disease.**
- **Asthma.**
- **Bronchiectasis.**
- **Lung Cancer.**
- **Pneumocystis jirovecii.**
- **Pleural Disease.**
- **Mediastinal Disease.**
- **Pulmonary Embolism.**
- **Diffuse Parenchymal Lung Diseases.**
- **Respiratory Failure.**

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.**

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Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

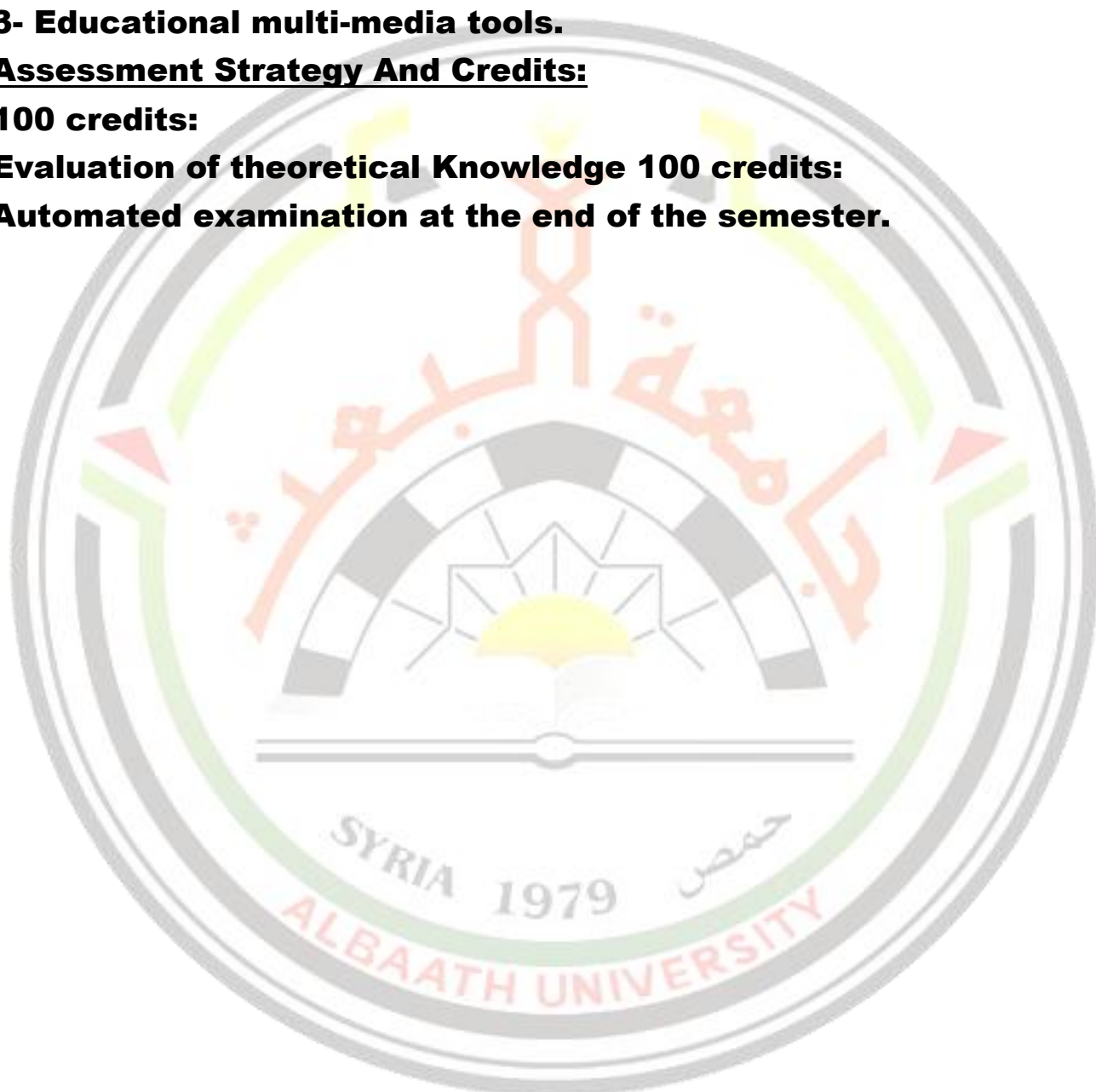
3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





8th Course: Vascular And Cardiothoracic Surgery (Surgical Diseases 3)

Course Title And Code:

Vascular And Cardiothoracic Surgery (Surgical Diseases 3).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year - 2nd 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- Aortic Valvular Diseases:

Aortic Stenosis.

Aortic Insufficiency.

3- Mitral Valve Diseases:

Mitral Stenosis.

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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:

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.

8- Patent Ductus Arteriosus.

9- Coarctation Of The Aorta.

10- Atrial Septal Defects.

11- Ventricular Septal Defects.

12- Tetralogy Of Fallot.

13- Transposition Of The Great Arteries.

•Aortic Dissection.

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• **Acquired Heart Diseases:**

1- Overview:

- ☒ **Epidemiology.**
- ☒ **Signs And Symptoms.**
- ☒ **Physical Examination.**
- ☒ **Preoperative Management.**
- ☒ **Postoperative Management.**
- ☒ **Cardiac Arrest.**
- ☒ **Extracorporeal Circulation.**
- ☒ **Prosthetic Valves.**

• **Aneurysms Of Thoracic Aorta.**

Thoracic Surgery:

- **Introduction To Respiratory Diseases.**
- **Congenital Abnormalities Of Respiratory System.**
- **Diseases Of The Trachea.**
- **Surgical Management Of Infectious Chest Diseases.**
- **Lung Cancer.**
- **Emphysema.**
- **Surgical Diseases Of Pleura.**

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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



9th Course: Otorhinolaryngology (ENT)

Course Title And Code:

Otorhinolaryngology (ENT)

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th year – 2nd 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**

• The Larynx:

- 1- Anatomy Of The Larynx.**
- 2- Function And Examination Of The Larynx.**
- 3- Diseases Of The Larynx.**
- 4- Tumors Of The Larynx.**

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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.

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- Clinical applications.

3- Learning to take the clinical history and getting information.

4- Developing clinical judgment- communication skills.

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5- Ability to analyze and manage data.

6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

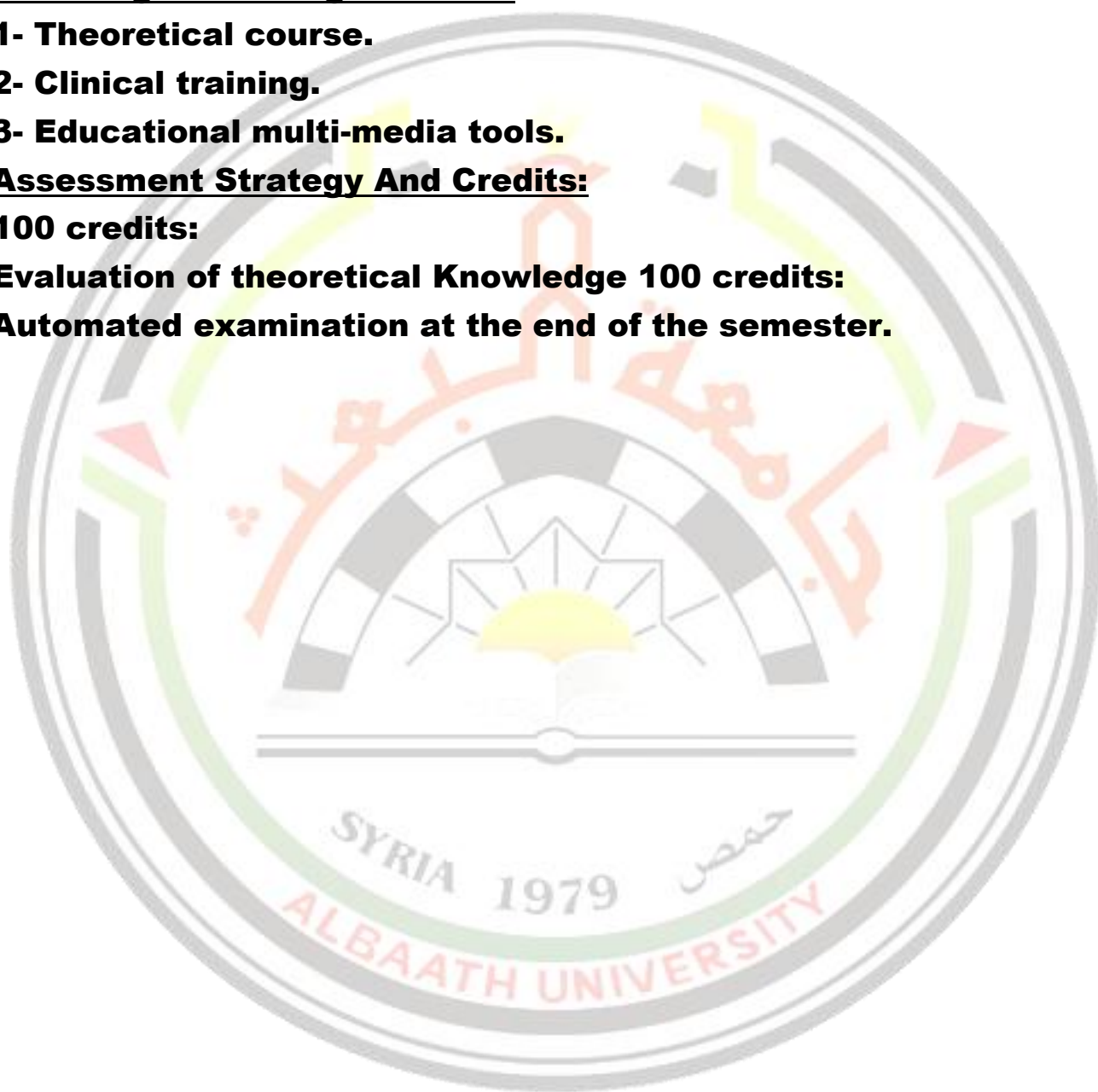
3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





10th Course: Pediatrics (2)

Course Title And Code:

Pediatrics (2).

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th 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 |
|---|---|

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



11th Course: Forensic Medicine

Course Title And Code:

Forensic Medicine.

Credit Hours:

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

Level/Year At Which This Course Is Offered:

4th 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**

- 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).**

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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 – Traumatic Asphyxia , Drowning.**

• 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.**

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Assessment Strategy And Credits:

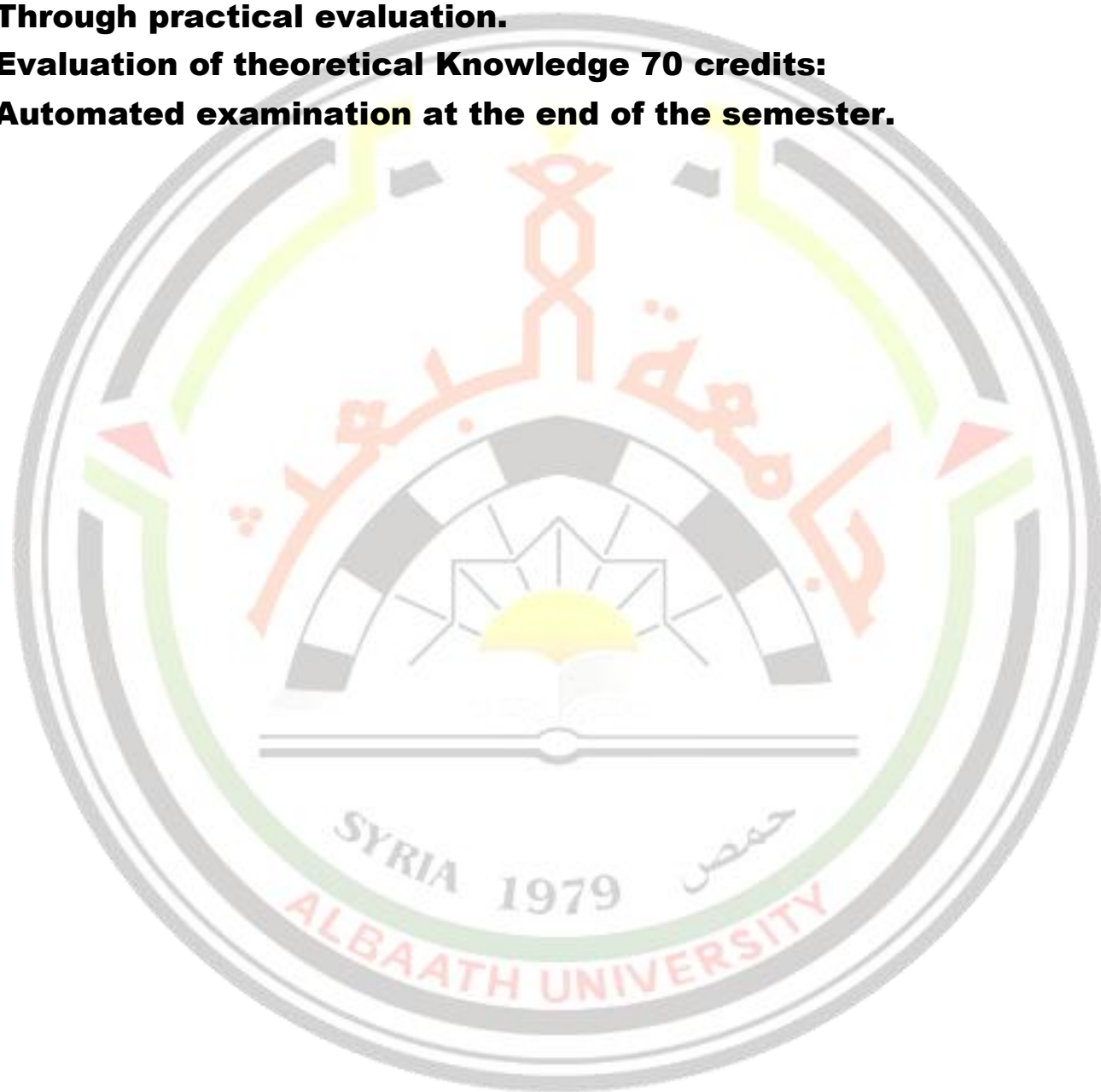
100 credits:

Clinical examination 30 credits:

Through practical evaluation.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.



Courses Description - 5th Year (Old Study Plan)



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**



1st Course: Neurology and Nephrology Diseases (Internal Medicine 1)

Course Title And Code:

Neurology Nephrology Diseases (Internal Medicine 3).

Credit Hours:

4 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 nephrology and 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 and nephrology 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.**

- Brain Tumors.**

- Hydrocephalus.**

- Traumatic Brain Injury.**

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- | | |
|--|--|
| <ul style="list-style-type: none">• Common Symptoms And Signs.• Functional Neuroanatomy.• Cranial Nerves Diseases.• Motor Control Systems.• Sensory Pathways And Pain.• Bladder Control And Sexual Dysfunction.• Neurological Tests.• 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. | <ul style="list-style-type: none">• Spinal Cord Disease.• Degenerative Neuronal Diseases.• Congenital And Neurogenic Disorders.• Paraneoplastic Syndromes.• Peripheral Nerve Disease.• Muscle Diseases.• Nephrology diseases:• Anatomy And Physiology Of The Kidney.• Electrolytes Of The Blood.• Alkaline Acid Balance.• Hormones And The Kidney.• Kidney Disorders.• Urinal Infections.• 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.**

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



2nd Course: Psychiatry

Course Title And Code:

Mental Illness (Psychiatry).

Credit Hours:

4 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- 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.**
- 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
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:

<ul style="list-style-type: none">• Psychiatric Examination.• Psychiatric Signs And Symptoms.• Schizophrenia Spectrum And Other:<ol style="list-style-type: none">1- Psychotic Disorders.2- Schizophrenia -Delusional Disorder.3- Brief Psychiatric Disorder.	<ul style="list-style-type: none">Feeding And Eating Disorders:<ol style="list-style-type: none">1- Anorexia Nervosa.2- Bulimia Nervosa.3- Pica.• Elimination Disorders:<ol style="list-style-type: none">1- Enuresis.2- Encopresis.• Sleep-Wake Disorders.• Sexual Dysfunctions.
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<p>4- Schizoaffective Disorder Catatonia.</p> <ul style="list-style-type: none">• Bipolar And Related Disorders:<ol style="list-style-type: none">1- Bipolar Disorder: Type I - Type II.2- Cyclothymic Disorder.• Depressive Disorders:<ol style="list-style-type: none">1- Major Depressive Disorder.2- Premenstrual Dysphonic Disorder.3- Persistent Depressive Disorder (Dysthymia).• Anxiety Disorders:<ol style="list-style-type: none">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:<ol style="list-style-type: none">1- Body Dysmorphic Disorder.2- Trichotillomania Disorder.• Trauma- And Stressor-Related Disorders:	<ul style="list-style-type: none">• Paraphilic Disorders.• Gender Dysphoria.• Disruptive, Impulse-Control, And Conduct Disorders:<ol style="list-style-type: none">1- Oppositional Defiant Disorder.2- Intermittent Explosive Disorder.3- Conduct Disorder.4- Pyromania.5- Kleptomania.• Substance-Related And Addictive Disorders.• Neurocognitive Disorders:<ol style="list-style-type: none">1- Delirium.2- Major And Mild Neurocognitive Disorders.• Personality Disorders:<ol style="list-style-type: none">1- Cluster A.2- Cluster B.3- Cluster C.• Neurodevelopmental Disorders:<ol style="list-style-type: none">1- Intellectual Disabilities: Intellectual.2- Developmental Disorder.3- Communication Disorders.4- Language - Speech Disorders.5- Social Communication.
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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 -
Factitious Disorder.**

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.

6- Professional ethics.

Teaching & Training Methods:

1- Theoretical course.

2- Clinical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



3rd Course: Gynecology

Course Title And Code:

Gynecology.

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 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.	<ul style="list-style-type: none">Menopause.• Urogynecology.• Uterovaginal Prolapsed.• Infertility Or Subfertility.• Amenorrhea.• Polycystic Ovarian Syndrome And Hyperandrogenism.
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- **Benign Disorders Of The Lower Reproductive Tract.**
- **Benign Disorders Of The Ovaries And Oviducts.**
- **Benign Disorders Of The Uterus.**
- **Endometriosis And Adenomyosis.**
- **Dysmenorrhea And Premenstrual Syndrome.**
- **Gynecological Bleeding.**
- **Pelvic Inflammatory Disease.**
- **Contraception And Sterilization.**

- **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:



**Evaluation of theoretical Knowledge 100 credits:
Automated examination at the end of the semester.**

4th Course Neurosurgery & Urology & Pediatric Surgery (Surgical Diseases 1)

course Title And Code:

Urological And Neurological and Pediatric Surgery (Surgical Diseases 1).

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, neurosurgical and common pediatric surgical 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

Neurological Surgery:

- History Of Neurological Surgery.
- Neurological Surgical

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<p>Genitourinary System.</p> <p>2- Evaluation Of The Urologic Patient.</p> <p>3- Investigations Of Genitourinary System.</p> <p>• Pediatric Urology:</p> <p>1- Normal Development Of The Urogenital System.</p> <p>2- Vesicoureteral Reflux.</p> <p>3- Primitive Congenital Hydronephrosis.</p> <p>4- Mega Ureter.</p> <p>5- Ectopic Ureteral Meatus.</p> <p>6- Ureterocele.</p> <p>7- Posterior Urethral Valves.</p> <p>8- Cryptorchidism.</p> <p>9- Hypospadias.</p> <p>10- Exstrophy Epispadias Complex.</p> <p>11- Ambiguous Genital.</p> <p>12- Bladder Immaturity Syndrome.</p> <p>13- Nocturnal Enuresis.</p> <p>14- Communicating Hydrocele.</p> <p>15- Hydrocele Of The Cord.</p> <p>16- Paraphimosis.</p> <p>17- Testicular Torsion.</p> <p>18- WILMS' Tumor.</p> <p>19- Sarcoma Of Urogenital</p>	<p>Operations:</p> <p>1- Conventional Neurological Surgery.</p> <p>2- Microscopic Neurological Surgery.</p> <p>3- Stereotaxic Neurological Surgery.</p> <p>• Neurological Surgical Care:</p> <p>1- Preoperative Care.</p> <p>2- Operative Care.</p> <p>3- Postoperative Care.</p> <p>• Neurological Surgical Diagnostic Studies:</p> <p>1- Neuroradiological Studies.</p> <p>2- Electrical Studies: EEG ,EMG.</p> <p>3- MRI-Ultra Sound.</p> <p>• Neurological Surgical Injuries:</p> <p>1- Head Injuries /Scalp – SkullBrain/.</p> <p>2- Spine And Spinal Cord Injuries.</p> <p>3- Plexus And Peripheral Nerve Injuries.</p> <p>• Tumors Of The Nervous System:</p> <p>1- Tumors Of Skull.</p> <p>2- Brain Tumors.</p> <p>3- Spinal Cord Tumors.</p> <p>4- Tumors Of The Peripheral Nerves.</p> <p>• Herniation Of The Nucleus Pulposus:</p>
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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.**

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.**

• **Epileptic Surgery:**

1- Temporal Lobectomy.

2- Lesionectomy.

3- Functional Hemispherectomy.

4- Callosotomy.

5- Vagus - Stimulation.

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<ul style="list-style-type: none">• Kidney Diseases:<ol style="list-style-type: none">1- Renal Congenital Diseases.2- Renal Transplantation.• Ureter Diseases:<ol style="list-style-type: none">1- Ureteral Anomalies.2- Ureteral Acquisitive Strictures.3- Ureteral Fistulae.• Retroperitoneal Diseases:<ol style="list-style-type: none">1- Retroperitoneal Tumors.2- Primitive Retroperitoneal Fibrosis.• Androgenic Diseases:<ol style="list-style-type: none">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.	<p>Educational Outputs The Student Should Acquire:</p> <ol style="list-style-type: none">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. <p>Pediatrics Surgery:</p> <ul style="list-style-type: none">• 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.
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Teaching & Training Methods:

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

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

5th 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:

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<ul style="list-style-type: none">• 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).• Vitreous Body (Anatomy And Physiology , Diseases Of The Vitreous Body , Vitrectomy	<ul style="list-style-type: none">• 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). <p><u>Educational Outputs The Student Should Acquire:</u></p> <ol style="list-style-type: none">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.
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Surgery). • Glaucoma (Anatomy And Physiology , Classification Of The Glaucoma).	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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

6th Course: Anesthesia 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:

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 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:

<p>Anesthesia And Resuscitation:</p> <ul style="list-style-type: none">• Preoperative Assessment And Premedication.• General Anesthesia.• Local And Regional Anesthesia.• Postoperative Care.• Cardiopulmonary Resuscitation CPR.• Shock.• Transfusion Therapy.• Fluid And Electrolyte Balance.	<ul style="list-style-type: none">• Acide – Base Balance.• Diagnosis And Management Of The Intensive Care Patients.• Respiratory Insufficiency And Mechanical Ventilation.• Pain Management. <p>Emergency Medicine:</p> <ul style="list-style-type: none">• 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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

**7th Course: History of medicine and Ethics
of Medical Practice and Its Legislations**

Course Title And Code:

**History of medicine and Ethics Of Medical Practice And Its
Legislations**

Credit Hours:

2 theoretical hours/week (18 weeks).

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- Review of Syrian medical and health legislations and laws related to the practice of medical professions.**
- 2- Reviewing the legal, civil, penal and medical responsibility for practicing the medical profession in Syria according to Syrian legislations.**
- 3- Reviewing doctors' duties towards patients, profession, society, colleagues and other health groups and doctors' rights.**
- 4- Reviewing terms and elements of medical secret and its applications.**
- 5- Discussing the most important moral theories of medicine ethics and ethics and knowing the advantages of each.**



- 6- Discussion of the ethical issues in the fields of medicine and health care in daily practice.**
- 7- Discussing ethical medical issues related to life and death, gene therapy, reproduction and organ transplantation.**
- 8- Review and discussing ethical medical issues in the care of people with special needs and oppressed people medical ethics.**
- 9- Reviewing the ethics and terms of applying medical researches and medical ethical committees.**
- 10- Reviewing the terms and components of informed consent by putting forward a plan.**

Course Description:

<ul style="list-style-type: none">• Medical And Health Legislations.• Legal, Civil, Penal And Medical Responsibility For Practicing The Medical Profession In Syria According To Syrian Legislations.• Medical Secret.• Medical Fault.• The Duties Of Doctors Towards Patients, Profession, Society, Colleagues And Other Health Groups And Doctor's Rights.	<ul style="list-style-type: none">• Basic Concepts Of Medical Moralities.• Ethical Medical Issues Related To Life And Death.• Modern Genetics And Reproduction.• Medical Issues Related To Some Health Cases.• The Ethics Of Medical Researches And Medical Ethical Committees.• Informed Consent.• Review of the History of medicine during Arab civilization.
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• **Moral Theories Of
Medicine Ethics.**

Educational Outputs The Student Should Acquire:

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

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.

**8th 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 – 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 diseases, manifestations, differential diagnosis, investigation and how to treat.**

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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.
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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



9th Course: Medical Imaging And Roentgen Diagnosis (Radiology)

Course Title And Code:

Medical Imaging And Roentgen Diagnosis (Radiology).

Credit Hours:

2 theoretical hour/week (18 weeks) - 2 practical hour/week.

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 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**
- 8- Diagnose the diseases of breast /mammography/.**
- 9- Diagnose diseases of vertebral column.**
- 10- Diagnose diseases and trauma of upper extremity.**
- 11- Diagnose diseases and trauma of lower extremity.**
- 12- Diagnose urinary system diseases.**

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13- Diagnose diseases of the skull and the brain.

14- Diagnose children internal and surgical cases.

15- Know the role of radiology in forensic medicine.

16- 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.

- 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

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.

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.

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<p>Cartridge Injuries.</p> <p>5- Fractures Of The Foreleg.</p> <p>6- Fractures Of The Foot And Ankle.</p> <p>• Radiological Diagnosis Of Vertebral Column:</p> <p>1- Degenerative Disease Of Vertebral Column.</p> <p>2- Diskettes And Osteomyelitis.</p> <p>3- Tumors Of Vertebrae.</p> <p>4- Tumors Of Spinal Cord.</p> <p>5- Trauma Of Vertebral Column.</p> <p>• Imaging Of Urinary System:</p> <p>1- Diagnosis Of Urinary Anomalies.</p> <p>2- Urinary Stones.</p> <p>3- Infections Of Urinary System.</p> <p>4- Diseases Of Urinary Bladder.</p> <p>5- Diseases Of Prostate Gland.</p> <p>• Radiological Imaging Of Skull And Nervous System:</p> <p>1- Simple X-Ray Of Skull.</p> <p>2- CT-SCAN And MRI Of The Brain In Vascular Cases /Intracerebral Bleeding And</p>	<p>10- Pleural Disease.</p> <p>11-Mediastinal Diseases.</p> <p>12-Pulmonary Embolism</p> <p>13-Diffuse Parenchymal Lung Diseases</p> <p>14-Respiratory Failure.</p> <p>• Radiological Diagnosis Of Digestive System:</p> <p>1- Achalasia, Diffuse Spasm Of Esophagus, Diaphragmatic Hernia.</p> <p>2- Neoplasms Of Esophagus.</p> <p>3- Intestinal Obstruction.</p> <p>4- Caecal And Sigmoid Volvulus.</p> <p>5- Hepatitis And Fatty Liver.</p> <p>6- Hepatic Cirrhosis.</p> <p>7- Cysts And Tumors Of Liver.</p> <p>8- Gall Bladder Diseases.</p> <p>9- Pancreatic Diseases.</p> <p>• Ultrasound Imaging In Genecology And Obstetric:</p> <p>1- Diagnosis Of Early Pregnancy.</p> <p>2- Diagnosis Of Common Anomalies.</p> <p>3- Diagnosis Of Bleeding In Pregnancy.</p> <p>4- Doppler Imaging In Pregnancy.</p>
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Infarction/.

3- Pneumonia In Child.

4- Esophageal Atresia.

5- Congenital Pyloric Stenosis.

6- Intestinal Volvulus.

7- Hirschsprung Disease.

• 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.

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.

10th Course: Internal Medicine (2)

(Endocrinology Hematology & Infectious Diseases & Geriatrics).



Course Title And Code:

Internal Medicine (2) (Endocrinology Hematology & Infectious Diseases & Geriatrics).

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 related 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">• Hematopoiesis:<ol style="list-style-type: none">1- Stem Cell.2- Bone Marrow.3- Erythropoiesis.4- Thrombopoiesis.5- Granulopoiesis.• Mature Cells.• Erythrocytes:<ol style="list-style-type: none">1- Red Blood Cell Indices.2- Reticulocytes.	<ul style="list-style-type: none">• Bone Marrow Transplantation.3- The Fibrinolytic System.• Anti Tumor Drugs.• Disorders Of Hemostasis:<ol style="list-style-type: none">1- Primary Hemostatic.2- Secondary Hemostasis.• Platelet Disorders:<ol style="list-style-type: none">1- Thrombocytopenia.2- Auto Immune
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<ul style="list-style-type: none">• 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.• PlateletsHematological 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.	<ul style="list-style-type: none">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.• 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.
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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 -Thalassemias.

8- Thalassemias- α .

9- Sickle Cell Anemia.

10- Red Cell Enzymopathy.

11- G6pd Deficiency.

12- Pyruvate Kinase Deficiency.

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.

• Female Reproductive Endocrinology And Infertility.

• Testes.

• Diabetes Mellitus.

• Hypoglycemic disorders.

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<p>13- Acquired Hemolytic Anemia.</p> <p>14- Autoimmune Hemolytic Anemia.</p> <p>15- Warm Autoimmune Hemolytic Anemia.</p> <p>16- Cold Autoimmune Hemolytic Anemia.</p> <p>17- Non- Immune Hemolytic Anemia.</p> <p>18- Paroxysmal Nocturnal Hemoglobinuria.</p> <p>19- Mechanical Hemolytic Anemia.</p> <p>20- Mechanical Hemolytic Anemia.</p> <p>21- Thrombotic Thrombocytopenic Purpura Ttp.</p> <p>22- Uremic Syndrome Hemolytic Hus.</p> <ul style="list-style-type: none">• Infection Mononucleosis.• Myelodysplastic Syndrome.• Myeloproliferative Syndromes: <ol style="list-style-type: none">1- Vera Polycythemia.2- Secondary Polycythemia.3- Essential Thrombocythemia.4- Myelofibrosis.	<ul style="list-style-type: none">• Disorders Of lipoprotein Metabolism.• Multiple Endocrine Neoplasia. <p>Infectious diseases:</p> <p>Introduction.</p> <ul style="list-style-type: none">• 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, Pasturella Infection, Rat Bite Infection.• Fever Of Unknown Origin.• Nosocomial Infections.
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<ul style="list-style-type: none">• Leukemias.• Acute Leukemia:<ol style="list-style-type: none">1- Acute Myelogenous Leukemia.2- Acute Lymphoblastic Leukemia.• Chronic Leukemia:<ol style="list-style-type: none">1- Chronic Lymphocytic Leukemia.2- Chronic Myelogenous Leukemia.3- Hairy Cell Leukemia.• Lymphomas:<ol style="list-style-type: none">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	<ul style="list-style-type: none">• 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.Geriatric Medicine:<ul style="list-style-type: none">• Geriatric Assessment.• Functional Anatomy And Physiology.• Investigations.• Presenting Problems In Geriatric Medicine.• Rehabilitation.Geriatric Medicine:<ul style="list-style-type: none">• Geriatric Assessment.• Functional Anatomy And Physiology.• Investigations.
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Lymphoma.

- Multiple Myeloma.
- Macroglobulinaemia.

• 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.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

11th Course: science of Nutrition

Course Title And Code:

science of Nutrition.

Credit Hours:

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



Level/Year At Which This Course Is Offered:

5th year - 2st 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 nutritional 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 nutritional diseases.**
- 3- To think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

Nutrition: <ul style="list-style-type: none">• The Nutrients.• Major Nutrients:<ol style="list-style-type: none">1- Carbohydrates (CHO).2- Proteins.3- Fats.4- Water.	<ul style="list-style-type: none">• Minor Nutrients:<ol style="list-style-type: none">1- Vitamins.2- Minerals.• (GI) Glycemic Index.• Statins.• Obesity.• Weight Loss
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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

**12th Course: Orthopedics And Traumatology
And Reconstruction Surgery and Oncology.
(Surgical Diseases 2)**

Course Title And Code:

**Orthopedics And Traumatology And Reconstruction Surgery and
Oncology. (Surgical Diseases 2)**

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**

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management of trauma and fracture lesions, and the principles of neoplastic 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.

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.**

4- Complication.

5- Electrical Burns.

• Hand Surgery:

1- Principals.

2- Trauma.

3- Infections.

4- Dystrophy.

5- Congenital.

General Manifestations Of Malignant Diseases:

1- Cancer Biology.

2- Cancer Causes.

3- Cancer Diagnosis.

4- Staging Classification And Prognosis.

5- Oncologic Surgery.

6- Cancer Tracing.

7- Chemotherapy.

8- Radiotherapy.

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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.**

Plastic And Reconstructive Surgery:

• **Cicatrization:**

1- **Cicatrization.**

2- **Affecting Factors.**

3- **Pathologic – Keloids.**

4- **Treatment.**

• **Skin Lesions:**

1- **Principles Of Suturing.**

9- Hormonal Therapy.

10- Biologic Therapy.

11- Genetic And Immune Therapy.

12- Prevention From Cancer.

13- Soft Tissues Tumors.

• **Head And Neck Diseases:**

1- **Head And Neck Tumors.**

2- **Thyroid Gland Lesions.**

• **Functional Thyroid Diseases:**

1- **Thyroiditis.**

2- **Thyroid Goiter.**

2- **Thyroid Cancers.**

4- **Complications Of Thyroid Surgery.**

5- **Parathyroid Glands.**

6- **General Considerations.**

7- **Functional Parathyroid Diseases.**

8- **Endocrine Adenoma.**

• **Mammary Gland Diseases:**

1- **General**

Considerations.

2- **Benign Breast**

Diseases.

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<ul style="list-style-type: none">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.	<ul style="list-style-type: none">3- Breast Cancer.4- Epidemiology And Risk Factors.5- Clinical History And Diagnosis.6- Classification.7- Pathological And Anatomical Forms.8- Surgical Therapy.9- Radiotherapy.10- Chemotherapy.11- Hormonal Therapy.12- Breast Reconstruction.
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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



13th Course: foreign language

Course Title And Code:

foreign language

Credit Hours:

2 theoretical hours/week (18 weeks) –

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 medical terms**
- 2-Read and write medical topics in different medical fields in foreign language.**

Educational Outputs The Student Should Acquire:

- 1- Knowing and understanding of course topics.**
- 2- Learning to read and write correctly medical papers in foreign language.**
- 3- Professional ethics.**

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.

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Courses Description - 5th Year (Old Study Plan)

Name:

Year:



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**



1st Course: Neurology and Nephrology Diseases (Internal Medicine 3)

Course Title And Code:

Neurology and Nephrology Diseases (Internal Medicine 3).

Credit Hours:

4 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 nephrology and 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 and nephrology 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**

- Brain Tumors.**
- Hydrocephalus.**
- Traumatic Brain Injury.**
- Spinal Cord Disease.**

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Signs.

- **Functional Neuroanatomy.**
- **Cranial Nerves Diseases.**
- **Motor Control Systems.**
- **Sensory Pathways And Pain.**
- **Bladder Control And Sexual Dysfunction.**
- **Neurological Tests.**
- **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.**

• **Degenerative Neuronal Diseases.**

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

Nephrology diseases:

- **Anatomy And Physiology Of The Kidney.**
- **Electrolytes Of The Blood.**
- **Alkaline Acid Balance.**
- **Hormones And The Kidney.**
- **Kidney Disorders.**
- **Urinal Infections.**
- **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- 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.**

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Teaching & Training Methods:

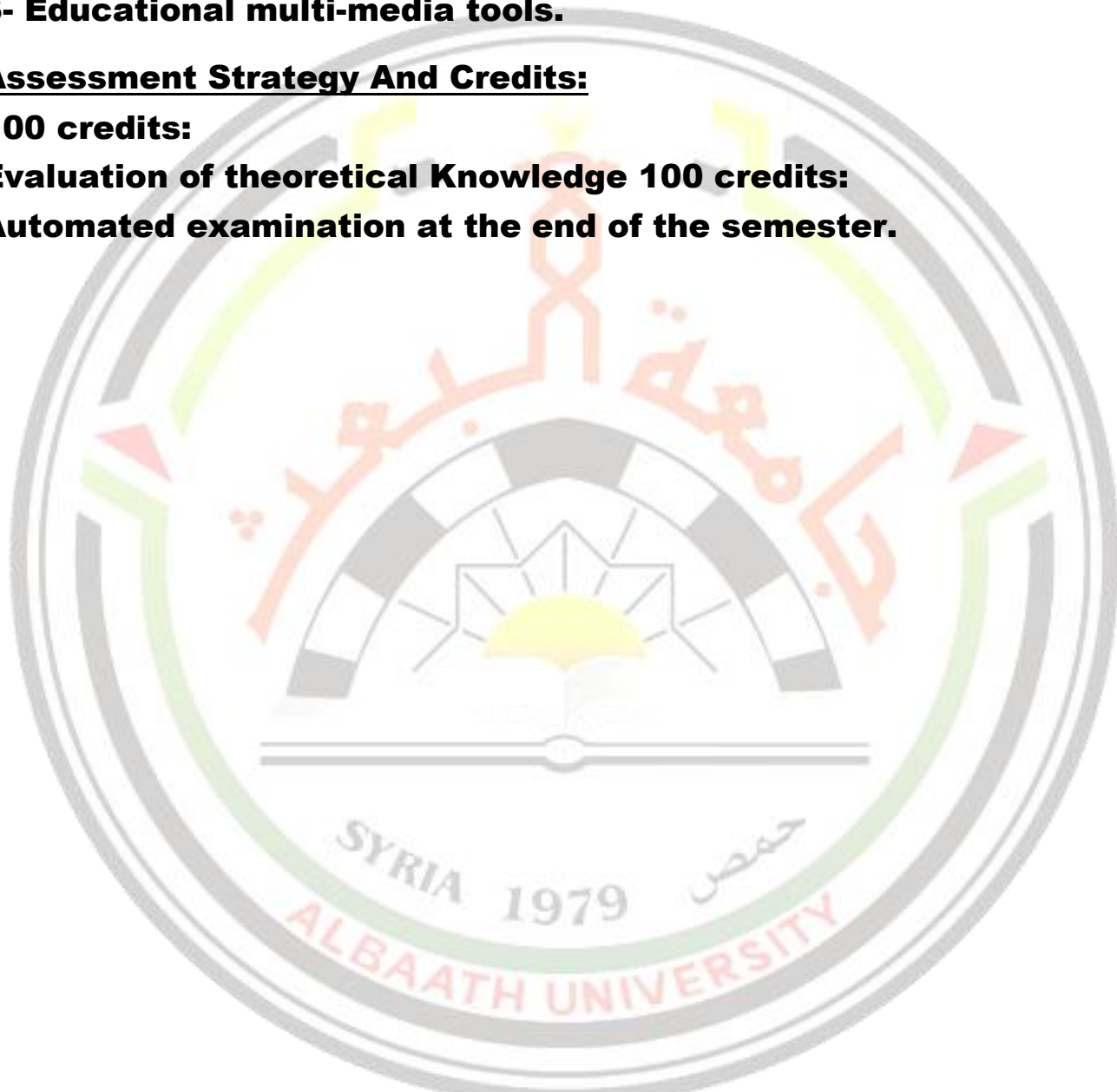
- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





2nd Course Neurosurgery & Urology & Pediatric Surgery (Surgical Diseases 4)

course Title And Code:

Urological And Neurological and Pediatric Surgery (Surgical Diseases 4).

Credit Hours:

4 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, neurosurgical and common pediatric surgical 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**

Neurological Surgery:

- History Of Neurological Surgery.**
- Neurological Surgical Operations:**
- 1- Conventional Neurological Surgery.**
- 2- Microscopic Neurological**

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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.

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 – SkullBrain/.

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

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• 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.**

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.

• Epileptic Surgery:

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

history and getting information.

Pediatrics Surgery:

• Common Pediatric Surgical Conditions.

• Infantile Hypertrophic Pyloric Stenosis.

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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.

• Inguinal Hernia.

• Intussusception.

• Acute Abdomen.

• Congenital Malformations.

• Esophageal Atresia.

• Congenital Diaphragmatic Hernia.

• Hirschsprung's Disease.

• Anorectal Malformations.

• Pediatric Surgical Oncology.

• Nephroblastoma.

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.

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Teaching & Training Methods:

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

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





3rd Course: Gynecology

Course Title And Code:

Gynecology.

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 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:

- The Gynecological History And Examination.**
- Embryology And Anatomy.**
- Normal And Abnormal Sexual Development And Puberty.**
- Pediatric Gynecology.**
- Benign Disorders Of The**

- Menopause.**
- Urogynecology.**
- Uterovaginal Prolapsed.**
- Infertility Or Subfertility.**
- Amenorrhea.**
- Polycystic Ovarian Syndrome And Hyperandrogenism.**
- Preinvasive Lesions Of The**



Lower Reproductive Tract.

- **Benign Disorders Of The Ovaries And Oviducts.**
- **Benign Disorders Of The Uterus.**
- **Endometriosis And Adenomyosis.**
- **Dysmenorrhea And Premenstrual Syndrome.**
- **Gynecological Bleeding.**
- **Pelvic Inflammatory Disease.**
- **Contraception And Sterilization.**

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- 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: Evaluation of theoretical Knowledge 100 credits:
Automated examination at the end of the semester.**



4th 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).**

- 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 ,**

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<ul style="list-style-type: none">• 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).	<ul style="list-style-type: none">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).
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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.**

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Teaching & Training Methods:

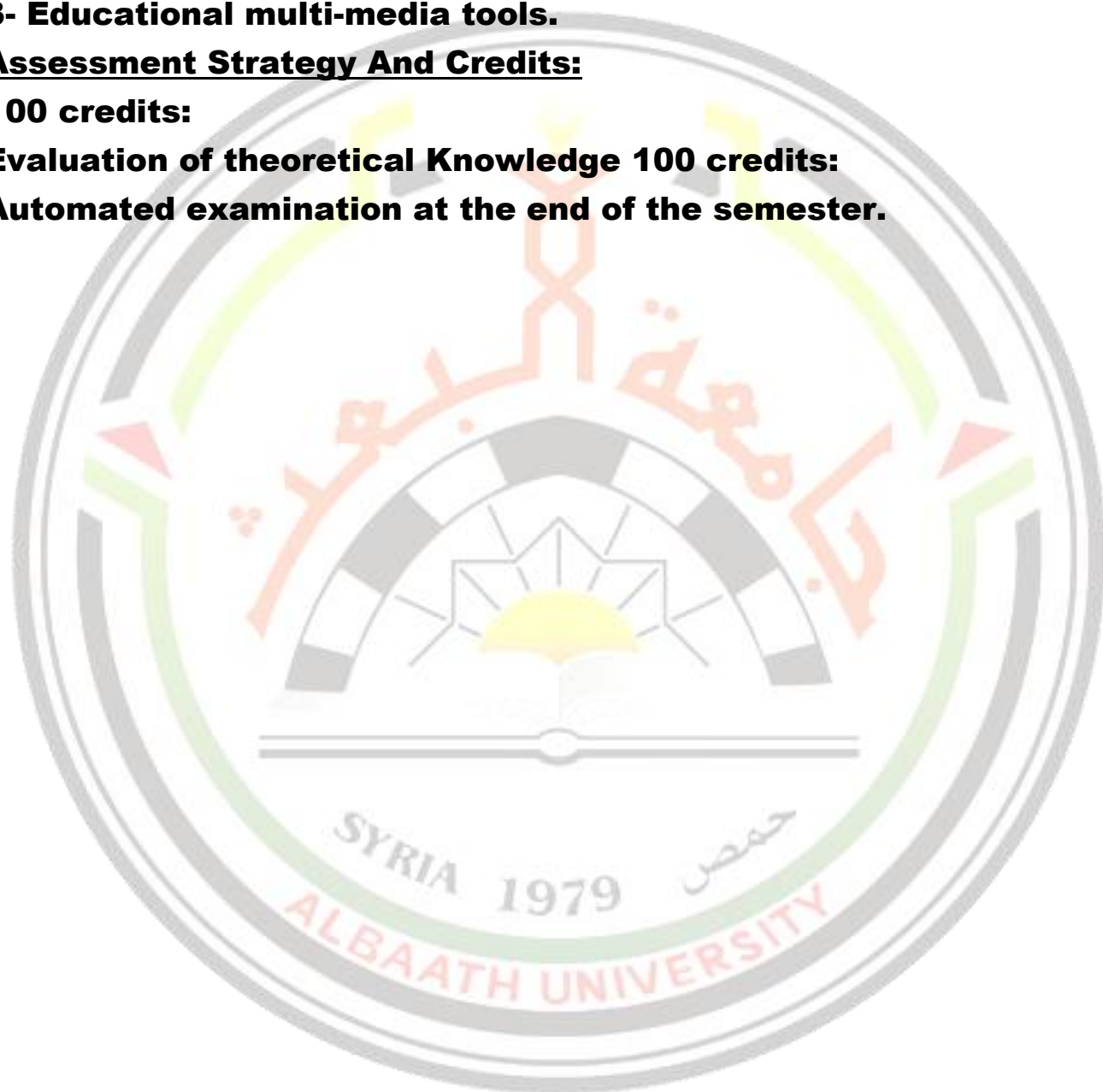
- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





5th 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:

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 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.**

- 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**

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• **Transfusion Therapy.**
• **Fluid And Electrolyte Balance.**

• **Overdose Patient.**
• **Soft Tissue Injuries.**
• **Traumas.**
• **Environmental Injuries.**

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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



6th Course: Internal Medicine (4) (Endocrinology & Nutrition & Geriatric medicine)

Course Title And Code:

Internal Medicine (4) (Endocrinology & Nutrition & Geriatric medicine).

Credit Hours:

4 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 nutritional and endocrine diseases, manifestations, differential diagnosis, investigation and how to treat.**
- 2- 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.**
- 3- Acquire the skills that enables him to the clinical approach of the patient and helps him to diagnose various related diseases.**
- 4- 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.**

• Multiple Endocrine Neoplasia.

Nutrition:

- The Nutrients**

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- **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.**
- **Female Reproductive Endocrinology And Infertility.**
- **Testes.**
- **Diabetes Mellitus.**
- **Hypoglycemic disorders.**
- **Disorders Of lipoprotein Metabolism.**

- **Major Nutrients:**
 - 1- **Carbohydrates (CHO).**
 - 2- **Proteins.**
 - 3- **Fats.**
 - 4- **Water.**
- **Minor Nutrients:**
 - 1- **Vitamins.**
 - 2- **Minerals.**
- **(GI) Glycemic Index.**
- **Statins.**
- **Obesity.**
- **Weight Loss.**
- Geriatric Medicine:**
 - **Geriatric Assessment.**
 - **Functional Anatomy And Physiology.**
 - **Investigations.**
 - **Presenting Problems In Geriatric Medicine.**
 - **Rehabilitation.**
- Geriatric Medicine:**
 - **Geriatric Assessment.**
 - **Functional Anatomy And Physiology.**
 - **Investigations.**
 - **Presenting Problems In Geriatric Medicine.**
 - **Rehabilitation.**

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



7th Course: Psychiatry

Course Title And Code:

Mental Illness (Psychiatry).

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 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.

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**
- 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 DisorderCatatonia.**
- **Bipolar And Related Disorders:**
- 1- Bipolar Disorder: Type I -**

- 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**

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Type II.

2- Cyclothymic Disorder.

• Depressive Disorders:

1- Major Depressive Disorder.

2- Premenstrual Dysphoric 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.

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



• **Somatic Symptom And Related Disorders:**

- 1- **Illness Anxiety Disorder.**
- 2- **Conversion Disorder - Factitious Disorder.**

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.**
- 6- **Professional ethics.**

Teaching & Training Methods:

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

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



8th Course: Internal Medicine (5) (Hematology & Infectious Diseases)

Course Title And Code:

Internal Medicine (5) (Hematology & Infectious Diseases)

Credit Hours:

4 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, and infectious 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 related 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">• Hematopoiesis:<ol style="list-style-type: none">1- Stem Cell.2- Bone Marrow.3- Erythropoiesis.4- Thrombopoiesis.5- Granulopoiesis.• Mature Cells.• Erythrocytes:<ol style="list-style-type: none">1- Red Blood Cell Indices.2- Reticulocytes.• White Blood Cells: | <ol style="list-style-type: none">2- Chronic Myelogenous Leukemia.3- Hairy Cell Leukemia. <ul style="list-style-type: none">• Lymphomas:<ol style="list-style-type: none">1- Hodgkin's Lymphoma HL.2- Non Hodgkin's Lymphoma NHL.3- Indolent Lymphoma.4- Follicular Lymphoma.5- Nodal Marginal Zone Lymphoma. |
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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.

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.

3- The Fibrinolytic System.

• Anti Tumor Drugs.

• Disorders Of Hemostasis:

1- Primary Hemostatic.

2- Secondary Hemostasis.

• 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.

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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 -Thalassemyias.

8- Thalassemyias- α .

9- Sickle Cell Anemia.

10- Red Cell Enzymopathy.

11- G6pd Deficiency.

12- Pyruvate Kinase Deficiency.

13- Acquired Hemolytic Anemia.

14- Autoimmune Hemolytic Anemia.

• Acquired Coagulation Disorders:

1- Vit K Deficiency.

2- Disseminated Intravascular Coagulation.

• Excessive Fibrinolysis.

• 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.

Infectious diseases:

Introduction.

• Viral Respiratory Infection.

• Herpes Viruses Infections.

• Viral Hepatitis.

• Mumps, Measles, Rubella, Roseola Infectious.

• Sexually Transmitted Infections, AIDS.

• Slow Viruses Infections,

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<p>15- Warm Autoimmune Hemolytic Anemia.</p> <p>16- Cold Autoimmune Hemolytic Anemia.</p> <p>17- Non- Immune Hemolytic Anemia.</p> <p>18- Paroxysmal Nocturnal Hemoglobinuria.</p> <p>19- Mechanical Hemolytic Anemia.</p> <p>20- Mechanical Hemolytic Anemia.</p> <p>21- Thrombotic Thrombocytopenic Purpura Ttp.</p> <p>22- Uremic Syndrome Hemolytic Hus.</p> <ul style="list-style-type: none">• Infection Mononucleosis.• Myelodysplastic Syndrome.• Myeloproliferative <p>Syndromes:</p> <ol style="list-style-type: none">1- Vera Polycythemia.2- Secondary Polycythemia.3- Essential Thrombocythemia.4- Myelofibrosis. <ul style="list-style-type: none">• Leukemias.• Acute Leukemia:<ol style="list-style-type: none">1- Acute Myelogenous Leukemia.2- Acute Lymphoblastic	<p>Arboviruses Infections, Roboviruses Infections.</p> <ul style="list-style-type: none">• 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, 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,
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Leukemia.

• Chronic Leukemia:

1- Chronic Lymphocytic Leukemia.

**Coccidioidomycosis,
Sporotrichosis, Aspergillosis,
PSC.**

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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



9th Course: Orthopedics And Traumatology And Reconstruction Surgery and Oncology. (Surgical Diseases 5)

Course Title And Code:

**Orthopedics And Traumatology And Reconstruction Surgery and
Oncology. (Surgical Diseases 5)**

Credit Hours:

4 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 neoplastic 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:

<p>Orthopedic Surgery:</p> <ul style="list-style-type: none">• 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. <p>Traumatology:</p> <ul style="list-style-type: none">• Fracture Introduction & General Principles In Fracture Treatment.• Complications Of Fractures.• Upper Limb Injuries:<ol style="list-style-type: none">1- Injuries Of The Shoulder.2- Injuries Of The Arm.3- Injuries Of The Elbow.4- Injuries Of The Forearm.	<ul style="list-style-type: none">3- Topical & General Treatment.4- Complication.5- Electrical Burns.• Hand Surgery:<ol style="list-style-type: none">1- Principals.2- Trauma.3- Infections.4- Dystrophy.5- Congenital.General Manifestations Of Malignant Diseases:<ol style="list-style-type: none">1- Cancer Biology.2- Cancer Causes.3- Cancer Diagnosis.4- Staging Classification And Prognosis.5- Oncologic Surgery.6- Cancer Tracing.7- Chemotherapy.8- Radiotherapy.9- Hormonal Therapy.10- Biologic Therapy.11- Genetic And Immune Therapy.12- Prevention From Cancer.13- Soft Tissues Tumors.• Head And Neck Diseases:
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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.

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.

1- Head And Neck Tumors.

2- Thyroid Gland Lesions.

• Functional Thyroid Diseases:

1- Thyroiditis.

2- Thyroid Goiter.

1- Thyroid Cancers.

4- Complications Of Thyroid Surgery.

5- Parathyroid Glands.

6- General Considerations.

7- Functional Parathyroid Diseases.

8- Endocrine Adenoma.

• Mammary Gland Diseases:

1- General Considerations.

2- Benign Breast Diseases.

3- Breast Cancer.

4- Epidemiology And Risk Factors.

5- Clinical History And Diagnosis.

6- Classification.

7- Pathological And Anatomical Forms.

8- Surgical Therapy.

9- Radiotherapy.

10- Chemotherapy.

11- Hormonal Therapy.

12- Breast Reconstruction.

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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:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.



10th Course: Medical Imaging And Roentgen Diagnosis (Radiology)

Course Title And Code:

Medical Imaging And Roentgen Diagnosis (Radiology).

Credit Hours:

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

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 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**
- 8- Diagnose the diseases of breast /mammography/.**
- 9- Diagnose diseases of vertebral column.**
- 10- Diagnose diseases and trauma of upper extremity.**
- 11- Diagnose diseases and trauma of lower extremity.**
- 12- Diagnose urinary system diseases.**
- 13- Diagnose diseases of the skull and the brain.**

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14- Diagnose children internal and surgical cases.

15- Know the role of radiology in forensic medicine.

16- 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.

- 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

• 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.

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

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• 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.

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.



4- Diagnosis Of Brain Tumors.	3- Neurological Trauma.
5- Diagnosis Of MS.	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, ECHO, CT-SCAN, MRI imaging, PET scan, SPECT.**
- 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.**

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.



11th Course: Preventive & Occupational Medicine

Course Title And Code:

Preventive & Occupational Medicine.

Credit Hours:

**2 theoretical hours/week (18 weeks) - 20 hours clinical training.
2 practical hour/week.**

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 how to control of environmental factors that may adversely affect health and how to prevent of occupational factors that may adversely affect health safety.**
- 2- Acquire the skills that enables him to conduct clinical preventive medicine activities, including measures to promote health and prevent the occurrence, progression, and disabling effects of disease and injury .**
- 3- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**

Course Description:

1. General principles:

- Preventive medicine aims & applications**
- Prevention levels, methods in each level**
- Preventive medicine & public**

4. Behavioural factors & prevention:

- Healthy behaviour, health promotion**
- Health education.**
- Alcohol & substance abuse.**

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health

definition.

2. Communicable diseases

control & preventive

principles:

-Air-borne & direct contact diseases.

-Sexually transmitted diseases.

-Vector-borne & zoonotic diseases.

-Hospital acquired diseases.

3. Non communicable diseases

control &

preventive principles:

-Cancer, cardiovascular disease, diabetes

-Chronic obstructive pulmonary disease,

-Digestive system diseases, malnutrition

-Psychiatric diseases, accidents, trauma

5. Special prevention

programs (child,

teenagers, reproductive,

elderly, mental &

international health.

6. Occupational health & medicine:

-Occupation & health.

-Occupational disease & occupation related

disease & syndromes.

-Dust, Physical factors & stress related

occupational diseases.

- Occupational cancer.

- Occupational diseases surveillance.

- Occupational diseases prevention.

- Workers health legislations.

- Special groups occupational health.

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:

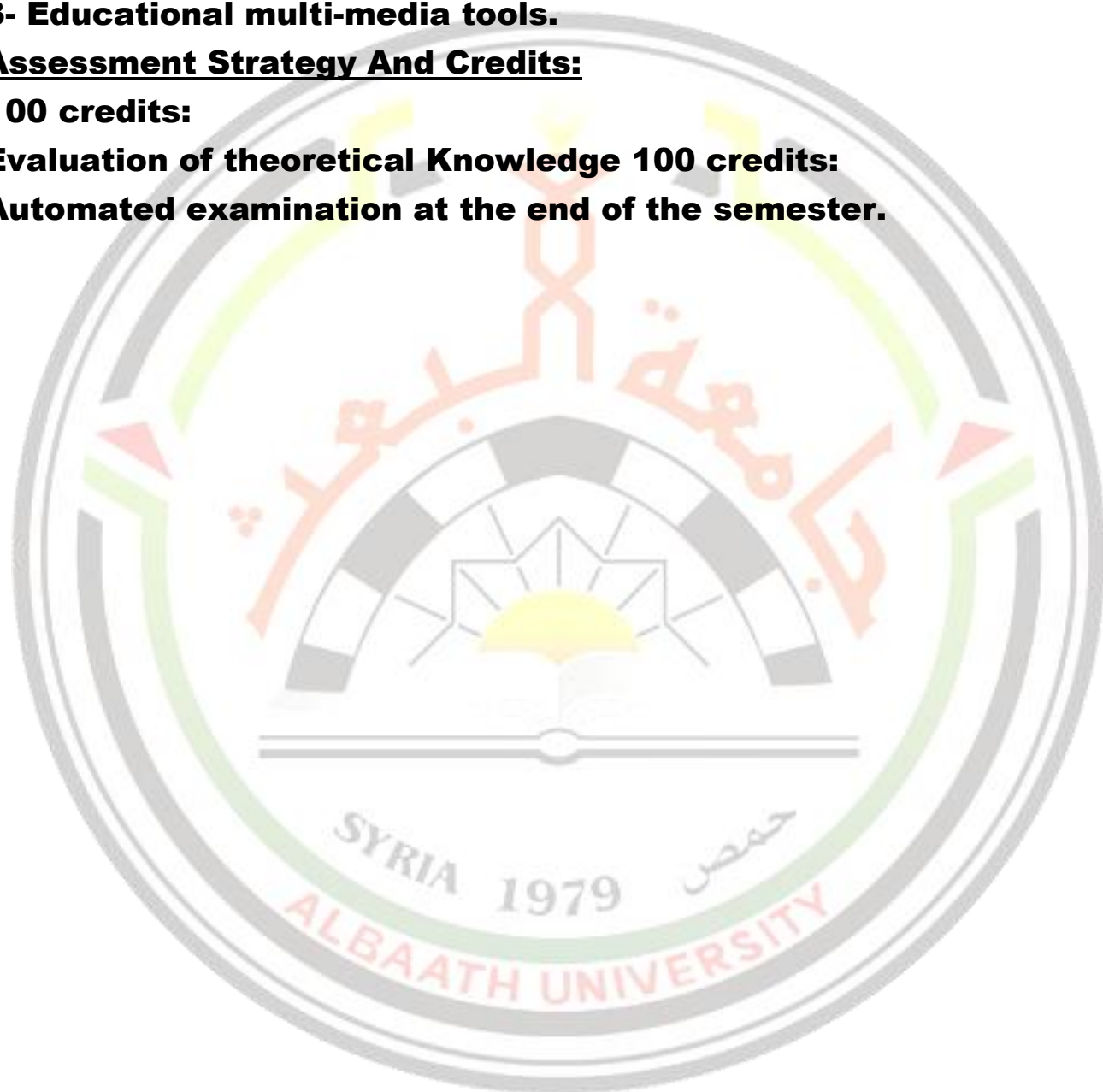
- 1- Theoretical course.**
- 2- Clinical training.**
- 3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





12th Course: Family Medicine

Course Title And Code:

Family Medicine.

Credit Hours:

1 theoretical hours/week (18 weeks) - 20 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 the skills that enables him to make assessment of social, cultural, and behavioral influences on health.**
- 2- Think logically by using of theoretical knowledge and clinical skills in order to solve the diagnostic problems of patients.**
- 3-Acquire vital rehabilitation skills needed in all areas of practice: every disorder, every setting, every age, and every patient encounter.**

Course Description:

1. Family medicine basics:

- Primary health care, family & community health care.**
- Family medicine definition, principles.**
- Family physician properties.**
- Family role & dynamics.**
- Health record, family file & reference.**

2. Clinical prevention & health

-Motivate patients & families about health promotion.

4. Child protection & domestic violence prevention:

- Child rights convention & health implications.**
- Violence epidemiology, child abuse & other forms of child rights**



<p>maintenance</p> <ul style="list-style-type: none">- Evidence based Medicine & primary care- Clinical prevention & principles.- Infants, children, adults & seniors health maintenance. <p>3. Communication skills:</p> <ul style="list-style-type: none">- Family physician – patient relation.- Verbal & non-verbal communication skills- Doctor’s visit ethics, privacy & confidentiality principles.- Relation with family members, medical team & other health authorities.	<p>violations.</p> <ul style="list-style-type: none">- Family function, interaction effect on child- High risk cases screening & proper interventions.- Physician responsibility in educating affected families & role in reference and information sharing.- Dealing with child in family & community <p>5. Working in a team & importance of other health workers assistance (nurses...) & non health workers assistance</p>
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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.**

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Teaching & Training Methods:

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

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.





13th Course: Clinical Pharmacology

Course Title And Code:

Clinical Pharmacology.

Credit Hours:

2 theoretical hours/week (36 weeks) .

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 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. |
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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.**

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.