

Courses Description - 2nd Year

(New Study Plan)



**Dean Of
Faculty Of Medicine**

**Deputy Dean For
Scientific Affairs**



1st Course: Anatomy (1)

Course Title And Code:

Anatomy (1).

Credit Hours:

3 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- Describe the anatomy of the bones and skeletal muscles, their anatomical locations, vasculature, their nerves, and functions.**
- 2- Acquire an overview of the field of skeletal system and the bones of Neurocranium – facial skeleton that will serve as a solid foundation for future study of its disorders.**

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.**
 - 9- Carpal Bones.**
 - 10- Metacarpal Bones.**
 - 11- Phalanx Bones.**
- 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.**

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8- Leg Region.

9- Ankle Joint.

**10- Bone Of Foot And Foot
Region.**

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.

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:

2 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 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: Medical Biochemistry And Molecular Biology

Course Title And Code:

Medical Biochemistry And Molecular Biology

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.**
- 4- Have the ability to identify some genetic diseases depending on nuclear acids biochemistry.**

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.**

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- **Chemistry Of Proteins: Structure, Classification And Specialization.**
- **Biochemistry Of Connective Tissue.**
- **Recombinant DNA Technology And Their Medical Applications.**
- **Biochemistry Of Bone And Cartilage Tissues.**
- **Biochemistry Of Muscular Tissue.**
- **Chemistry Of Lipids And Biological Membranes.**
- **Metabolism, Bioenergetics And Oxidative Phosphorylation.**

Molecular Biology:

- **Nuclear Acids.**
- **Human Genome.**
- **Cell Cycle And Division Control.**
- **Chromosome Structure And Chromosomal Aberrations.**
- **DNA Replication And Germination.**
- **Adjustment After Transcription.**
- **Regulation Of Genes Transcription.**
- **Genetic Engineering Techniques (Stimulation Of Recombinant DNA).**

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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4th Course: English Language (3)

Course Title And Code:

English Language (3).

Credit Hours:

2 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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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:

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: National Culture

Course Title And Code:

National Culture.

Credit Hours:

1 theoretical hour/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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7th Course: Behavioral Psychology

Course Title And Code:

Behavioral Psychology.

Credit Hours:

2 theoretical hours/week (18 weeks).

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- Acquaintance of behavior psychological determinants and its effect on the situation and its role in the health and illness, and take it into account in the diagnosis and treatment.**
- 2- Knowing of the main component and sides of the personality.**
- 3- Acquiring the skill of understanding the patient, and well communication with him and with his family in terms of cultural framework.**
- 4- Understanding the basic mental process in human actions.**

Course Description:

- Introduction To Psychology.**
- Theories In Psychology.**
- Personality.**
- Intelligence.**
- Cognition And Apprehension.**
- Memory And Remembering.**
- Thinking.**
- The Inherent And Physiological Bases Of The Behavior.**
- The Effects Of The Psychological Factors In Health And Illness.**
- Psycho Trauma, Psycho Stress And Psycho Burning, As Well As How To Cope With Or Prevention From.**
- Communication Skills: Physician Patient Interaction.**
- Psychological Normality And Abnormality.**

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- **Psychological Disorders In:
Children, Adolescents, Adults
And Elderly.**

Educational Outputs The Student Should Acquire:

- 1- General knowledge about the main psychological theories, mental health, abnormal psychology and psychological disorders according to the age categories.**
- 2- Good enough conception regarding the structural and functional construction and internal interactions of the personality, also its effective and non-effective adaptation mechanisms.**
- 3- General psychological knowledge regarding the structures and functions of: intelligence, cognition and appreciation, memory and thinking.**
- 4- An appropriate understanding and analysis of the behavior inherited and physiological components as it interacts with social, environmental and psychological affects.**
- 5- The psychological sides, mechanism and effects of: psycho trauma, psycho stress and psycho burning, as well as how to cope with or prevention from.**
- 6- Good enough theoretical knowledge about humanistic communication skills especially in the medical fields.**

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: Anatomy (2)

Course Title And Code:

Anatomy (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- 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.



9th Course: Medical Embryology

Course Title And Code:

Medical Embryology.

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- Describe the stages and events leading to implantation and organogenesis.**
- 2- Describe developmental stages for each system of the body.**
- 3- Finding the congenital malformations which occur through development of each system of the body.**

Course Description:

• General Embryology:

- 1- Anatomical Description Of The Male And Female Reproductive System.**
- 2- Weddings.**
- 3- Vaccination.**
- 4- Division.**
- 5- Venomous Cyst.**
- 6- Nesting.**
- 7- Vaginal And Corneal Formations.**
- 8- Embryonic Spasms.**
- 9- Fetal Membranes.**
- 10- Fetal Age Estimation And Methods Used To Assess Fetal Development.**

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

• Specific Embryology And

Systems Development:

- 1- Development Of The Respiratory System.**
- 2- Development Of The Cardiovascular System.**
- 3- Development Of The Digestive System.**
- 4- Development Of Musculoskeletal System.**

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**5- Development Of The
Genitourinary System.**

**6- Development Of The
Nervous System.**

**7- The Development Of The
Senses: Eye - Ear And Skin.**

• **Fetal Malformations.**

Educational Outputs The Student Should Acquire:

Acquire evolutionary concepts of the human embryo and its mechanisms and understand the pathological mechanisms of malformations.

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.



10th Course: Specific Histology (Histology 2)

Course Title And Code:

Specific Histology (Histology 2).

Credit Hours:

2 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- 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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11th Course: Normal And Pathological Medical Physiology (1)

Course Title And Code:

Normal And Pathological Medical Physiology (1).

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- 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:

- Blood Physiology.**
- Blood Cells, Platelets, Blood Coagulation.**
- Pathophysiology Of Blood Diseases, Immunology, Blood Coagulation.**
- Physiology Of Heart And Circulation.**
- Pathophysiology Of Cardio Vascular Diseases.**
- Physiology And Pathophysiology Of Respiratory System.**
- Physiology Of Digestion.**
- Mastication, Deglutination, Peristaltic Movements.**
- Digestive Secretions.**
- Hepatic And Pancreatic Secretions.**
- Intestinal Absorption And Its Disorders.**

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- **Pathophysiology Of Gastric And Esophageal Diseases.**
- **Physiology Of Kidney And Urination.**
- **Renal Diseases.**

Educational Outputs The Student Should Acquire:

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

Teaching & Training Methods:

- 1- Theoretical course.**
- 2- 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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12th Course: Medical And Clinical Biochemistry (1)

Course Title And Code:

Medical And Clinical Biochemistry (1).

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 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:

- 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.**
- Vitamins Deficiency And Its Diagnostic Tests.**
- Aerobic And Anaerobic Glycolysis And Krebs Cycle.**
- Lipid Metabolism.**
- Metabolism Of Lipoproteins And Cholesterol.**
- Metabolism Of Cardiac Muscle And Tests For Cardiac Vessels And Lipid Disorders.**
- Protein Digestion, Degradation And Their Fate.**
- Other Pathways For Amino Acid Metabolism.**

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- **Metabolism Of Heme And Bile Pigments: Bilirubin.**
- **The Clinical Tests Of Iron And Porphyrines Disorders.**
- **Tests Of Liver Functions.**
- **Minerals: Functions, Metabolism And Disorders.**
- **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.



13th Course: Communication Skills

Course Title And Code:

Communication Skills.

Credit Hours:

2 theoretical hours/week (18 weeks).

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 methods to communicate with patients and colleges and patient's families and writing medical documents.**
- 2- Acquire the skills that enables him to examine the patient clinically and help him in diagnosing various diseases.**

Course Description:

• The Guide Of Communication

Skills:

- 1- Introduction To Communication Skills.**
- 2- Basic Communication Skills.**
- 3- The Medical History.**
- 4- Giving Information.**
- 5- Breaking Bad News.**
- 6- Taking Sexual History.**
- 7- Communication With People From Different Cultural Back Ground.**

8- Communication With

Children And Young People.

9- Communication With Patient's Family.

10- Mistakes, Complains, And Litigation.

11- Special Problems In D-P Communication.

12- Communication With Colleagues.

- Approach To The Patient**
- Clinical History Taking**
- General Examination**

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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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14th Course: English Language (4)

Course Title And Code:

English Language (4).

Credit Hours:

2 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.