

Course description form

Teacher name :maha kheder

This description provides a summary of the most important course characteristics and - the learning outcomes that the student is required to achieve

1-Educational institution	Al-Zahraa Private University - for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	" Medical microbiology
4-Available attendance forms	Official studying hours
4-Semester/year	" First stage of the first course "
5-Number of study hours (total)	hours48
6-Date this description was prepared	2024/3/12/

Course objectives

1.General:

Knowledge of microorganisms that cause infections, whether bacterial, viral, parasitic, or fungal, is crucial for healthcare professionals to effectively manage such cases. Understanding these microorganisms helps in diagnosing and treating infections, as well as implementing preventive measures. Additionally, it enables physical therapists to tailor treatment plans to address any complications or limitations caused by these .infections in the body

2. Special:

Knowing the types of causes that cause injuries to the body

.Genetic factors and chromosomal changes

.The body's defense mechanism against pathogens

Some pathogens and how to prevent them

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Clarifying basic concepts in microbiology -

And understanding the components of the microenvironment

.B - The skills objectives of the course

The student can use a microscope

Growing microorganisms on different cultural media

Differentiate between different types of microorganisms

C-Teaching and learning methods

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There is a group of printed lectures where the scientific material is discussed and important notes are made

Additional clarifications

Evaluation methods

Participation in the classroom-

Evaluating activities within scientific laboratories-2

C- Emotional and value goals

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Teaching and learning methods

Conducting the lecture theoretically with the application of clinical and practical tests

Conducting some daily tests and assigning students to weekly research sessions

Allocate a percentage of the grade to daily assignments and tests

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4		microbiology- Introduction & microscope, precautions, waste disposal	Theoretical+ practical	Quiz+ Discussion
	4		Classification of Microorganisms & morphology of Bacteria	Theoretical+ practical	Quiz+ Discussion
3 rd	4		Sterilization & disinfection [basic concepts] hospital acquired infection, universal safety	Theoretical+ practical	Quiz+ Discussion
4 th	4		immunology :Antigen antibody - reaction & application for diagnosis;Immune response - normal/abnormal	Theoretical+ practical	Quiz+ Discussion
5 th	4		immunology : Innate immunity & acquired immunity [vaccination],Hyper - sensitivity & auto-immunity	Theoretical+ practical	Quiz+ Discussion
6 th	4		Laboratory Diagnosis of Infection	Theoretical+ practical	Quiz+ Discussion
7 th	4		Bacteriology : .Infection caused by gram +ve cocci; Gas gangrene - clostridium - Diphtheria ,Infection caused by gram -ve cocci, Septicemia- cholera - Shock Typhoid diarrhea	Theoretical+ practical	Quiz+ Discussion
8 th	4		Bacteriology : Mycobacterial infection tuberculosis: Leprosy- Atypical Mycobacterium d.syphilis – morphology & pathogenesis [VDRL]	Theoretical+ practical	Quiz+ Discussion
9 th	4		Viruses : Introduction & general properties, .HIV	Theoretical+ practical	Quiz+ Discussion
10 th	4		Viruses Polio, measles, congenital viral infections, Rubella, CMV Herpes	Theoretical+ practical	Quiz+ Discussion

11 th	4		Mycology	Theoretical+ practical	Quiz+ Discussion
12 th	4		Introduction to Biosafety and Security, The main components of biorisk management, Safety measures in all laboratories and laboratory design, General safety precautions, Personal protective equipment.	Theoretical+ practical	Quiz+ Discussion
13 th	4		Biosafety level, risk assessment strategy, Hazard groups, biosafety levels and equipment, Standard practices required in biological laboratories.	Theoretical+ practical	Quiz+ Discussion
14 th	4		The biological factors, Routes of infection, Risk group classification, Biosafety measures, Control of substances hazardous to health.	Theoretical+ practical	Quiz+ Discussion
15 th	4		Revision	Theoretical+ practical	Review/

Infrastructure

1-Required prescribed books -	Various sources
2-Main references (sources)	<ol style="list-style-type: none"> Human biology: concepts and current issues by Johnson, Michael D. third edition Biology a functional approach, 1987 ,2nd edition MBV Roberts,TJ King . Advanced biology ,2000.Micheal Roberts , Micheal rieis, Grace Monger
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

Course development plan

Using modern methods

Course description form

Teacher name: maha khder

This description provides a summary of the most important course characteristics and -the learning outcomes that the student is required to achieve

1-Educational institution	Al-Zahraa Private University – for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Human Physiology
4-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the first course"
5-Number of study hours (total)	hours48
6-Date this description was prepared	2024/3/12/

Course objectives

Course objectives

:Public.1

The functions of the body systems of a living organism, trying to explain the physical and chemical factors responsible for the origin and formation of the continuity of life. Since the human being is a living organism, the student must understand the function ..and work of each part of the body in different situations in order for life to continue

2. Special:

:

- 1 – The cell, its components and function.
- 2 – The muscular and nervous system and how it works.
- 3 – The function of the cardiovascular and respiratory systems and the relationship between them.
- 4 – The urinary system and the regulation of body fluids, as well as the digestive system and its relationship to temperature regulation and thus the work of the endocrine glands and their role in regulating the activities of all other organs. Thus, the student will be able to know the difference between normal work and functional disorder in pathological cases, which qualifies him to understand the special medical qualification of each organ or system. .

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Clarifying the basic concepts in physiology --
Knowledge and understanding of surrounding natural phenomena and their interpretation

.B – The skills objectives of the course

- Skills of knowledge and remembering
- The ability to think about solving a specific problem - 2
- Writing scientific reports
- Analytical skills- -

C-Teaching and learning methods

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There is a group of printed lectures where the scientific material is discussed and
important notes are made

Additional clarifications

Evaluation methods

-Participation in the classroom

Evaluating activities within scientific laboratories -2

Emotional and value goals- C

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Teaching and learning methods

Conducting the lecture theoretically with the application of clinical and practical tests

Conducting some daily tests and assigning students to weekly research sessions

Allocate a percentage of the grade to daily assignments and tests

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4		Cell: Morphology. Organelles: their structure and functions• Transport Mechanisms across the cell membrane• Body fluids: Distribution, composition. Tissue fluid – formation.	Theoretical+ practical	Quiz+ Discussion
	4		Blood: 1. Composition of Blood, Plasma, Protein Formation and their Function. 2. Structure, formation and functions of R.B.C. 3. Structure, formation and functions of W.B.Cs. and platelets.	Theoretical+ practical	Quiz+ Discussion
3 rd	4		Blood: 4. Coagulation and its defects of bleeding and clotting time. 5. Blood Groups and their significance, Rh. Factor.	Theoretical+ practical	Quiz+ Discussion
4 th	4		Blood: 6. Reticulo-endothelial system, Jaundice, Structure and functions of spleen . 7. Hemoglobin and .E.S.R	Theoretical+ practical	Quiz+ Discussion
5 th	4		Cardiovascular System: 1. Structure, properties of heart muscle and nerve supply of heart structure and function of arteries, arterioles, capillaries and veins. 2. Cardiac cycle and	Theoretical+ practical	Quiz+ Discussion

			heart sounds. 3. Cardiac output measurement, factors affecting.		
6 th	4		Cardiovascular System: 4. Heart rate and its regulation, Cardiovascular reflexes. 5. Blood pressure, its regulations and physiological variations. 6. Peripheral resistance, factors controlling and its role in B.P	Theoretical+ practical	Quiz+ Discussion
7 th	4		Cardiovascular System: 7. Hemorrhage. 8. Changes in muscular exercise	Theoretical+ practical	Quiz+ Discussion
8 th	4		Respiratory System: 1. Mechanism of respiration, intra-pleural and intrapulmonary pressure. 2. Lung volumes and capacities.	Theoretical+ practical	Quiz+ Discussion
9 th	4		Respiratory System: 3. O ₂ and CO ₂ carriage and their exchange in tissues and lungs. 4. Nervous chemical regulation of respiration – Respiratory Centers. Respiratory states – Anoxia, Asphyxia, Cyanosis, and Acclimatization.	Theoretical+ practical	Quiz+ Discussion
10 th	4		Digestive System : 1. General outline and salivary digestion. 2. Gastric secretion and its mechanism of secretion and functions.	Theoretical+ practical	Quiz+ Discussion
11 th	4		Digestive System : 3. Digestion, Absorption and	Theoretical+ practical	Quiz+ Discussion

			Metabolism of Proteins . 4. Structure, Secretions and Function of Liver		
12 th	4		Nutrition: 1. Digestion, Absorption and Metabolism of Carbohydrates. 2. Digestion, Absorption and Metabolism of Fats. 3. Digestion, Absorption and Metabolism of Proteins.	Theoretical+ practical	Quiz+ Discussion
13 th	4		Nutrition: 4. Vitamins, its sources, functions and resources. 5. Balanced diet in different age groups and occupation.	Theoretical+ practical	Quiz+ Discussion
14 th	4		Endocrines: 1. Anterior Pituitary. 2. Posterior Pituitary and Parathyroid. 3. Thyroid.	Theoretical+ practical	Quiz+ Discussion
15 th	4		Endocrines: 4. Adrenal Cortex. 5. Adrenal Medulla, Thymus 6. Pancreas and Blood sugar .regulation	Theoretical+ practical	Review/

Infrastructure

1-Required prescribed books -	Various sources
2-Main references (sources)	<ol style="list-style-type: none"> 1. Essential of exercise physiology, McArdle, William D.; Katch, Frank I.; Katch, Victor L second edition.2000. 2. Exercise Physiology: Nutrition, Energy and Human Performance, William D. McArdle, Frank I. Katch, Victor L. Katch , , seventh edition , 2010. 3. Anatomy and Physiology for Therapists and Healthcare Professionals ,Ruth Hull, Greta Couldridge, Vicki Slegg, , 2009.

3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

<u>Course development plan</u>
Using modern methods

Course description form

D. Doaa Essam Hadi .

Course name: Clinical Biochemistry

This description provides a summary of the most important course characteristics and -the learning outcomes that the student is required to achieve

1-Educational institution	Al-Zahraa Private University – for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Clinical Biochemistry
4-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the first course"
5-Number of study hours (total)	hours48
6-Date this description was prepared	2024/3/12/

Course objectives

Course objectives

Studying the basic concepts of vital interactions within the body and explaining t relationship to the field of physical therapy

2. Special:

An introduction to the biochemistry related to health and disease that forms the basis

of modern medical practice with an emphasis on the molecular level

Study the molecular structure of the basic components in the human body such as protein, carbohydrates, and fats. Explaining the importance of the balance between these components and their relationship to various diseases such as obesity, thinness, and endocrine disorders

.Studying trace types of vitamins and explaining their role in health and disease

Describe the main paths of biosynthesis processes, the steps involved in these paths, and their enzymatic regulation

Studying the imbalance that occurs in the main metabolic pathways and its relationship to atherosclerosis, strokes, and diabetes

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Identify the molecular structure of the basic components in the human body and know the metabolic pathways

The skills objectives of the course- B.

- Skills of knowledge and remembering
- The ability to think about solving a specific problem -
- Writing scientific reports
- Analytical skills- -

C-Teaching and learning methods

There is a group of printed lectures where the scientific material is discussed and important notes are made

Additional clarifications

Evaluation methods

Participation in the classroom-

Evaluating activities within scientific laboratories

C-Emotional and value goals -

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Teaching and learning methods

Conducting the lecture theoretically with the application

Conducting some daily tests and assigning students to weekly research sessions

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4		CELL: Introduction to Biochemistry, Cell: (Biochemical Aspects), Cell Membrane Structure, Membrane Proteins, Receptors & Signal Molecules	Theoretical+ practical	Quiz+ Discussion
	4		BODY FLUIDS: Structure and properties of Water, Weak Acids & Bases, Concept of pH & pK, Buffers, their mechanism of action, Body buffers	Theoretical+ practical	Quiz+ Discussion
3 rd	4		BIOMOLECULES: AMINO ACIDS, PEPTIDES & PROTEINS Amino acids: Classification, Acid-Base Properties, +Functions & Significance., Protein Structure, Primary, Secondary & Super secondary. &Structural Motifs, Tertiary & Quaternary Structures of Proteins, Protein Domains, Classification of Proteins , Fibrous proteins (collagens and elastins) & Globular proteins	Theoretical+ practical	Quiz+ Discussion
4 th	4		BIOMOLECULES: AMINO ACIDS, PEPTIDES & PROTEINS Amino acids: Classification, Acid-Base Properties, Functions & Significance., Protein Structure, Primary, Secondary & Super secondary. &Structural Motifs, Tertiary & Quaternary Structures of Proteins, Protein Domains, Classification of Proteins , Fibrous proteins (collagens and elastins) & Globular proteins	Theoretical+ practical	Quiz+ Discussion
5 th	4		ENZYMES: Introduction, Classification & Properties of Enzymes, Coenzymes, Isozymes & Proenzymes	Theoretical+ practical	Quiz+ Discussion

			,Regulation & Inhibition of Enzyme activity & enzymes inhibitors , Clinical Diagnostic Enzymology		
6 th	4		CARBOHYDRATES: Definition, Classification, Biochemical Functions & Significance of Carbohydrates, Structure & Properties of Monosaccharides & Oligosaccharides, Structure & Properties of Polysaccharides, Bacterial cell Wall, Heteropolysaccharides , GAGS.	Theoretical+ practical	Quiz+ Discussion
7 th	4		LIPIDS: Classification of Lipids, Fatty Acids: Chemistry, Classification occurrence & Functions, Structure & Properties of Triacylglycerols and Complex Lipids, Classification & Functions of Eicosanoids, Cholesterol: Chemistry, Functions & Clinical Significance, Bile acids/salts.	Theoretical+ practical	Quiz+ Discussion
8 th	4		LIPIDS: Classification of Lipids, Fatty Acids: Chemistry, Classification occurrence & Functions, Structure & Properties of Triacylglycerols and Complex Lipids, Classification & Functions of Eicosanoids, Cholesterol: Chemistry, Functions & Clinical Significance, Bile acids/salts.	Theoretical+ practical	Quiz+ Discussion
9 th	4		NUCLEIC ACIDS: Structure, Functions & Biochemical Role of Nucleotides, Structure & Functions of DNA, Structure & Functions of RNA.	Theoretical+ practical	Quiz+ Discussion
10 th	4		NUTRITIONAL BIOCHEMISTRY: MINERALS & TRACE ELEMENTS Sources, RDA, Biochemical Functions & Clinical Significance of Calcium & Phosphorus, Sources,	Theoretical+ practical	Quiz+ Discussion
11 th	4		NUTRITIONAL	Theoretical+	Quiz+

			BIOCHEMISTRY: MINERALS & TRACE ELEMENTS RDA, Biochemical Functions & Clinical Significance of Sodium Potassium & Chloride, Metabolism of Iron, Cu, Zn, Mg, Mn, Se, I,F.	practical	Discussion
12th	4		VITAMINS: Sources, RDA, Biochemical Functions & Clinical Significance of Fat Soluble Vitamins, Sources, RDA, Biochemical Functions & Clinical Significance of Water Soluble Vitamins.	Theoretical+ practical	Quiz+ Discussion
13th	4		NUTRITION: Dietary Importance of Carbohydrates, Lipids & Proteins, Balanced Diet.	Theoretical+ practical	Quiz+ Discussion
14th	4		MOLECULAR BIOLOGY: DNA Replication & Repair in Prokaryotes , DNA Replication & Repair in Eukaryotes	Theoretical+ practical	Quiz+ Discussion
15th	4		Revision	Theoretical+ practical	Review/ Discussion

Infrastructure

1-Required prescribed books -	Various sources
2-Main references (sources)	<ol style="list-style-type: none"> TEXTBOOK OF BIOCHEMISTRY ,2012,U.R,Agrawal,Kiran Agarwal,Kriishna Prakshan. Lippincott's illustrated reviews :Biochemistry ,Richard A. Harvy 3rd edition ,2005
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

Course development plan

Course description form

Teacher name: Maha Khder

This description provides a summary of the most important course characteristics and -the learning outcomes that the student is required to achieve

1-Educational institution	Al-Zahraa Private University – for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Basic Nursing & First Aids
4-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the second course"
5-Number of study hours (total)	54hours
6-Date this description was prepared	2024/3/12/

Course objectives

Course objectives

Public.1

Acquiring the skill in addition to information related to the medical condition

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Familiarity with nursing science and knowledge of minor medical risks

.B – The skills objectives of the course

- Skills of knowledge and remembering

-Writing scientific reports

Analytical skills- -

C-Teaching and learning methods

There is a group of printed lectures where the scientific material is discussed and important notes are made

Additional clarifications

Evaluation methods

Participation in the classroom-

Evaluating activities within scientific laboratories-2

C-Emotional and value goals –

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Teaching and learning methods

Conducting the lecture theoretically with the application

Conducting some daily tests and assigning students to weekly research sessions

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	6		Introduction Definition of first aid. Importance of first aid, Golden rules of first aid, Scope and concept of emergency.	Theoretical+ practical	Quiz+ Discussion
	6		First aid emergencies Burns & Scalds : Causes, Degrees of burns, First aid treatment, General treatment.	Theoretical+ practical	Quiz+ Discussion
3 rd	6		First aid emergencies <i>Poisoning</i> : Classification (irritants, acid, alkali, narcotics), Signs and symptoms. First aid treatment, General treatment.	Theoretical+ practical	Quiz+ Discussion
4 th	6		First aid emergencies <i>Trauma due to foreign body intrusion</i> : Eye, ear, nose, throat, stomach and lungs.	Theoretical+ practical	Quiz+ Discussion
5 th	6		First aid emergencies <i>Bites</i> : First aid, signs, symptoms and treatment. a) Dog bite : rabies Snake bite : neurotoxin, bleeding diathesis b) Snake bite : neurotoxin, bleeding diathesis	Theoretical+ practical	Quiz+ Discussion
6 th	6		Skeletal injuries Definition: Types of fractures of various parts of the body. Causes, Signs and Symptoms. Rules of treatment, Transportation of patient with fracture and spinalcord injuries. First aid measures in dislocation of joints.	Theoretical+ practical	Quiz+ Discussion

			Treatment of muscle injuries.		
7 th	6		Respiratory emergencies: Asphyxia: Etiology, Signs & Symptoms, rules of treatment.	Theoretical+ practical	Quiz+ Discussion
8 th	6		Respiratory emergencies: Drowning: Definition and management.	Theoretical+ practical	Quiz+ Discussion
9 th	6		Respiratory emergencies: Artificial respiration: Types and techniques.	Theoretical+ practical	Quiz+ Discussion
10 th	6		Wounds and Hemorrhage Wounds: Classification, management.	Theoretical+ practical	Quiz+ Discussion
11 th	6		Wounds and Hemorrhage Haemorrhages: Classification, signs and symptoms, rules for treatment of hemorrhage.	Theoretical+ practical	Quiz+ Discussion
12 th	6		Wounds and Hemorrhage Treatment of hemorrhage from special areas (Scalp, mouth, nose, ear, palm and various veins). Internal haemorrhages: Visible and concealed.	Theoretical+ practical	Quiz+ Discussion
13 th	6		F. Shock and unconsciousness Definition: Types of shock, Common causes of shock, signs and symptoms of shock (assessment of established shock). General and special treatment of established shock	Theoretical+ practical	Quiz+ Discussion
14 th	6		Transportation of the injured 1. Methods of transportation: Single helper, Hand seat, Stretcher, Wheeled transport (ambulance). 2. Precautions taken: Blanket lift, Air and Sea travel.	Theoretical+ practical	Quiz+ Discussion

15 th	6		Revision	Theoretical+ practical	Review/
Infrastructure					
1-Required prescribed books -			Various sources		
2-Main references (sources)			<ol style="list-style-type: none"> 1. manual of first aid :management of general injuries ,sports injuries and common ailments 2. <u>Textbook on First Aid and Emergency Nursing</u> 		
3-Recommended books and references (scientific journals, reports,...)			Open		
4-Electronic references, Internet sites			Open		

Course development plan

Using modern methods

Course description form

Teacher name: Asst. lect. Maha kuder

This description provides a summary of the most important course characteristics and -the learning outcomes that the student is required to achieve

1-Educational institution	Al-Zahraa Private University – for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Human Physiology2
4-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the second course"
5-Number of study hours (total)	hours48
6-Date this description was prepared	2024/3/12/

Course objectives

Course objectives

:Public.1

The functions of the body systems of a living organism, trying to explain the physical and chemical factors responsible for the origin and formation of the continuity of life. Since the human being is a living organism, the student must understand the function ..and work of each part of the body in different situations in order for life to continue

2. Special:

1 – The cell, its components and function.

2 – The muscular and nervous system and how it works.

3 – The function of the cardiovascular and respiratory systems and the relationship between them.

4 – The urinary system and the regulation of body fluids, as well as the digestive system and its relationship to temperature regulation and thus the work of the endocrine glands and their role in regulating the activities of all other organs. Thus, the student will be able to know the difference between normal work and functional disorder in pathological cases, which qualifies him to understand the special medical qualification of each organ or system. .

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Clarifying the basic concepts in physiology --
Knowledge and understanding of surrounding natural phenomena and their interpretation

.B – The skills objectives of the course

- Skills of knowledge and remembering
- The ability to think about solving a specific problem -
- Writing scientific reports
- Analytical skills- -

C-Teaching and learning methods

-

There is a group of printed lectures where the scientific material is discussed and important notes are made

Additional clarifications

Evaluation methods

Participation in the classroom-

Evaluating activities within scientific laboratories-2

C-Emotional and value goals -

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Teaching and learning methods

Conducting the lecture theoretically with the application

Conducting some daily tests and assigning students to weekly research sessions

Allocate a percentage of the grade to daily assignments and tests

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	4		Reproductive System : 1. Sex determination and development, Puberty. 2. Male sex hormones and their functions, spermatogenesis.	Theoretical+ practical	Quiz+ Discussion
	4		Reproductive System : 3. Female sex hormones and functions, menstrual cycle, ovulation and contraceptives. 4. Pregnancy, functions of placenta and lactation	Theoretical+ practical	Quiz+ Discussion
3 rd	4		Excretory System: 1. Gross and minute structure of Kidney and features of Renal circulation.2. Mechanism of formation of Urine, GFR and Tubular function.	Theoretical+ practical	Quiz+ Discussion
4 th	4		Excretory System: 3. Renal function. 4. Physiology of Micturition	Theoretical+ practical	Quiz+ Discussion
5 th	4		Muscle and Nerve: 1. Structure of Neurons, membrane potential and generation of action potential. 2. Nerve impulse conduction, Saltatory conduction.	Theoretical+ practical	Quiz+ Discussion
6 th	4		Muscle and Nerve: 3. Neuromuscular junction and drugs acting on it – Myasthenia. 4. Degeneration and	Theoretical+ practical	Quiz+ Discussion

			regeneration in peripheral nerves – Wallerian degeneration of electro tonus and Pflagers Law.		
7 th	4		Muscle: : 1. Type of muscles and their gross structure, stimulus chronaxie, strength duration curve. 2. Structure of sarcomere – Basis of muscle contraction, Starling's Law and changes during muscle contraction.	Theoretical+ practical	Quiz+ Discussion
8 th	4		Muscle: 3. Electrical – Biphasic and monophasic action potentials. 4. Chemical, Thermal and Physical changes, isometric and isotonic contraction.	Theoretical+ practical	Quiz+ Discussion
9 th	4		Muscle: 5. Motor units and its properties, Clonus, Tetanus, All or None Law, Beneficial Effect. 6. Nature of Voluntary contraction, Fatigue.	Theoretical+ practical	Quiz+ Discussion
10 th	4		Nervous System: 1. Types and properties of Receptors, types of sensations. 2. Structure of Synapses, Reflex and its properties, occlusion summation, sub minimal fringe, etc.	Theoretical+ practical	Quiz+ Discussion
11 th	4		Nervous System: 3. Tracts of Spinal Cord. 4. Descending, Pyramidal and Extra pyramidal Tracts.	Theoretical+ practical	Quiz+ Discussion
12 th	4		Nervous System: 5. Hemi section and	Theoretical+ practical	Quiz+ Discussion

			complete section of spinal cord, upper and lower motor neuron paralysis. 6. Cerebral cortex – areas and functions, E.E.G.		
13 th	4		Nervous System: 7. Structure, connections and functions of Cerebellum. 8. Connections and functions of Basal Ganglia and Thalamus.	Theoretical+ practical	Quiz+ Discussion
14 th	4		Nervous System: 9. Reticular formation, tone, posture and equilibrium. 10. Autonomic nervous system.	Theoretical+ practical	Quiz+ Discussion
15 th	4		Revision	Theoretical+ practical	Review/

Infrastructure

1-Required prescribed books -	Various sources
2-Main references (sources)	<ol style="list-style-type: none"> 1. Essential of exercise physiology, McArdle, William D.; Katch, Frank I.; Katch, Victor L second edition.2000. 2. Exercise Physiology: Nutrition, Energy and Human Performance, William D. McArdle, Frank I. Katch, Victor L. Katch , , seventh edition , 2010. 3. Anatomy and Physiology for Therapists and Healthcare Professionals ,Ruth Hull, Greta Couldridge, Vicki Slegg, , 2009.
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

Course development plan

Course description form

Teacher name: DR. Nuhad Al-Rubaye

This course description provides a summary of the most important course characteristics and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description-

1-Educational institution	Al-Zahraa Private University - for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Introduction to physical " therapy
4-Available attendance forms	Official studying hours
4-Semester/year	" First stage/second course
5-Number of study hours (total)	Approximately 90 hours
6-Date this description was prepared	2024/3/12/

Course objectives

General: Introducing students to the profession of physical therapy and directing .1 them to it

.Private.2

.The importance of applying physical therapy to improve human health

Describe the basic elements of the physical therapy process and their application to .pathological conditions

.Define and use basic terminology in physical therapy

.Knowledge of daily vital activities

.Respect patients' privacy

10-Course outcomes and teaching, learning and evaluation methods

A-

Cognitive objectives

Learn about the profession of physical therapy

The purpose of applying physical therapy to various pathological conditions

.B - The skills objectives of the course

- Ability to focus and analyze

.The ability to think about solving a specific problem

C-Teaching and learning methods

-

-

There is a group of printed lectures where the scientific material is discussed and important notes are made

Additional clarifications

Evaluation methods

Participation in the classroom-

Evaluating activities within scientific laboratories-2

C- Emotional and value goals

Developing the student's ability to work by completing assignments and submitting them on time

Developing the student's ability to dialogue, research and discuss

Developing the student's ability to choose the appropriate device for medical conditions

Teaching and learning methods

Conducting the lecture theoretically with the application of clinical and practical tests

Conducting some daily tests and assigning students to weekly research sessions

Allocate a percentage of the grade to daily assignments and tests

Evaluation methods

Evaluating students' active participation during the lesson

Commitment to the lecture date and not being absent -

Commitment to submitting assignments and research-

Semester and final exams express the extent of commitment and academic achievement

11- structure of the course/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	6		History of physiotherapy.	Theoretical+ practical	Quiz+ Discussion
2nd	6		Terminology in physiotherapy.	Theoretical+ practical	Quiz+ Discussion
3rd	6		Definition and epidemiology of disability, impairment and handicap. Process of disability.	Theoretical+ practical	Quiz+ Discussion
4th	6		The concept of team approach, members of the interdisciplinary team. The responsibilities and functions of the physiotherapist.	Theoretical+ practical	Quiz+ Discussion
5th	6		The role of the physiotherapist in the current changes in health care.	Theoretical+ practical	Quiz+ Discussion
6th	6		Define levels of care within the delivery system (acute, subacute, rehab, skilled nursing, home care, etc.).	Theoretical+ practical	Quiz+ Discussion
7th	6		Disability prevention and principles of physiotherapy.	Theoretical+ practical	Quiz+ Discussion
8th	6		Understanding of the organization of physical therapy services(prevention, treatment and restoration).	Theoretical+ practical	Quiz+ Discussion
9th	6		The role of both non-verbal and verbal communication in physiotherapy. Brief outlines of psychosocial aspects of physiotherapy.	Theoretical+ practical	Quiz+ Discussion
10th	6		The importance of patient and family education and the impact of patient and family education on physiotherapy outcomes.	Theoretical+ practical	Quiz+ Discussion
11th	6		Activities of daily living, functional assessment, training for functional independence.	Theoretical+ practical	Quiz+ Discussion

12 th	6		Introduction to occupational therapy.	Theoretical+ practical	Quiz+ Discussion
13 th	6		The physiology and consequences of aging.	Theoretical+ practical	Quiz+ Discussion
14 th	6		Patient privacy.	Theoretical+ practical	Quiz+ Discussion
15 th	6		Revision.	Theoretical+ practical	Review/

Infrastructure

1-Required prescribed books -	Various sources
2-Main references (sources)	<p>Introduction to Physical Therapy . 6th .Edition, 2020. Michael Pagliarulo</p> <p>Introduction to Physical Therapy and Patient Skills. Mark Dutton. 2021 by .McGraw Hill</p> <p>Musculoskeletal Assessment Joint Range of Motion, Muscle Testing, and Function 4th Edition 2020. By: .Hazel M. Clarkson</p> <p>Grieve's Modern Musculoskeletal Physiotherapy4th Edition 2019. By: .Gwendolyn Jull</p>
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

Course development plan

Using modern methods

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