Teacher name: Dr. hamid Al-Timimi

This course description provides a succinct summary of the most important course characteristics and the learning outcomes that students are expected to achieve and the available learning evidence. It must be linked to a description of whether the program has made the most of its opportunities

-Educational institution1	-Al-Zahraa Private University
	for women
2-Scientific department/center	College of Health and Medical
	Technologies – Department of
	Physiotherapy
-Course name/code3	Biomechanics
-Available attendance forms4	Official studying hours
4-Semester/year	First semester''
-Number of study hours (total)5	60 hours
6-Date this description was prepared	7.70_77_10
Course objectives	·

1.General:

Knowing the types and analysis of movement in the human body.

2. Special:

1 - Definition of the natural laws affecting the movement of the human body.

2 - Defining the factors that help analyze the movement of the human body.

3 - Identify the deficiency or defect in the body's movement and how to return it to a normal state.

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Enabling students to obtain knowledge of biomechanics.

A2- Enabling students to obtain knowledge in the laws of biomechanics and apply them in the sports field.

A3- Enabling students to obtain knowledge of human motor analysis

B - The skills objectives of the course.

1 - Students acquire knowledge of biomechanics.

B2 - Students gain the ability to employ the laws of biomechanics in therapeutic exercises.

B3 - Gaining the ability to apply the laws of biomechanics.

B4 - Giving students the skill of kinetic analysis of the human body.

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

2-Evaluating activities within scientific laboratories

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

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	2	Biomecha nics	Biomechanics	Theoretical	Quiz+ Discussion
2 nd	2	Basic Concepts in Biomecha nics	Kinematics and Kinetics (Types of Motion, Location of Motion, Direction of Motion, Magnitude of Motion, Definition of Forces, Force of Gravity.	Theoretical	Quiz+ Discussion
3 rd	2	Basic Concepts in Biomecha nics	Kinematics and Kinetics (Reaction forces, Equilibrium, Objects in Motion, Force of friction, Concurrent force systems, Parallel force systems, Work	Theoretical	Quiz+ Discussion
4 th	2	Muscle structure and function	Mobility and stability functions of muscles, Elements of muscle structure, Muscle function, Effects of immobilization,	Theoretical	Quiz+ Discussion

			and aging		
5 th	2	Levers	Definition, function, classification and application of levers in physiotherapy & order of levers with example of lever in human body	Theoretical	Quiz+ Discussion
6 th	2	Elasticity	Definition, stress, strain, HOOKE'S Law	Theoretical	Quiz+ Discussion
7 th	2	Muscular System	Definition , properties of muscle, muscular contraction, structural classification, action of muscle in moving bone, direction of pull, angle of pull, functional classification, coordination of muscular system	Theoretical	Quiz+ Discussion
8 th	2	Muscular System	Definition , properties of muscle, muscular contraction, structural classification, action of muscle in moving bone, direction of pull, angle of pull, functional classification, coordination of muscular system	Theoretical	Quiz+ Discussion
9 th	2	Joint	Describe the basic	Theoretical	Quiz+

		C 4 10 - 10 4			Disc
		Structure	principles of joint		Discussion
		and	design and a		
		Function	human joint,		
			Describe the		
			tissues present in		
			human joints,		
			including dense		
			fibrous tissue,		
			bone, cartilage and		
			connective tissues		
10 th	2	Joint	Describe the basic	Theoretical	Quiz+
		Structure	principles of joint		Discussion
		and	design and a		
		Function	human joint,		
			Describe the		
			tissues present in		
			human joints,		
			including dense		
			fibrous tissue,		
			bone, cartilage and		
			connective tissues		
11 th	2	Joint	Classify joints:	Theoretical	Quiz+
		Structure	Synarthrosis,		Discussion
		and	amphiarthrosis,		
		Function	diarthrosis, sub		
			classification of		
			synovial joints		
12 th	2	Joint	Describe joint	Theoretical	Quiz+
		Structure	functions,		Discussion
		and	kinematics, range		
		Function	of motion,		
			Describe the		
			general effects of		
			injury and disease		
13 th	2	Posture	Posture- dynamic	Theoretical	Quiz+
			and static		Discussion
			posture,kinetic and		
			kinematics ,range		
			of motion ,describe		
			the general of age,		
			pregnancy,		
			occupation on		
			posture		
l			r ······	I	

14 th	2	Gait	Gait- kinematics and kinetics of gait in running and stair climbing	Theoretical	Quiz+ Discussion
15 th	2	Revision	Revision	Theoretical	Review/

Infrastructure	
- 1-Required prescribed books	Various sources
2-Main references (sources)	1. Clinical Kinesiology for Physical Therapist Assistants by Lippert
	 Applied Kinesiology: A Training Manual and Reference Book of Basic Principles and Practices by Robert Frost (Mar 28, 2002) Kinesiology: The Mechanics and Pathomechanics of Human Movement by Carol A. Oatis Kinesiology by K. Wells; Sauder's Publications. Basic Biomechanics of the Musculoskeletal System by Margareta Nordin and Victor H. Frankel
3-Recommended books and references (scientific journals, reports,)	Open
4-Electronic references, Internet sites	Open

Course development plan	
Using modern methods	

Course name: Clinical Biochemistry

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

Y-Educational institution	Al-Zahraa Private University -
	for women
2-Scientific department/center	College of Health and Medical
	Technologies – Department of
	Physiotherapy
	Clinical Biachemister
۳-Course name/code	Clinical Biochemistry
٤-Available attendance forms	Official studying hours
	7 8
A. Samaata waa ay	
4-Semester/year	"First stage of the first
	course"
•-Number of study hours (total)	hours ٤ ٨
6-Date this description was prepared	7.70/7/10/
Course objectives	

Course objectives

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

2. Special:

health and disease that forms the basis An introduction to the biochemistry related to emphasis on the molecular level of modern medical practice with an molecular structure of the basic components in the human body such as Study the Explaining the importance of the balance between .protein, carbohydrates, and fats their relationship to various diseases such as obesity, these components and .endocrine disorders thinness, and

.trace types of vitamins and explaining their role in health and disease Studying main paths of biosynthesis processes, the steps involved in these paths, Describe the .their enzymatic regulation and

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

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives components in the human body Identify the molecular structure of the basic and know the metabolic pathways

.B - The skills objectives of the course

- Skills of knowledge and remembering

- specific problem The ability to think about solving a -

-Writing scientific reports

Analytical skills- -

C-Teaching and learning methods

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

Evaluation methods <u>Participation in the classroom-</u> <u>Evaluating activities within scientific laboratories</u> Emotional and value goalsC- -

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

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

<u>Teaching and learning methods</u> <u>applicatio nConducting the lecture theoretically with the</u> <u>assigning students to weekly research sessions Conducting some daily tests and</u>

Evaluation methods

lesson Evaluating students' active participation during the

absent Commitment to the lecture date and not being -

research Commitment to submitting assignments and-

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

11- structu	re of the c	course/syllab	us		
The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	ź		CELL: Introduction to Biochemistry, Cell: (Biochemical Aspects), Cell Membrane Structure, Membrane Proteins, Receptors & Signal Molecules	Theoretical+ practical	Quiz+ Discussion
	٤		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	£		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	ź		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	Theoretical+ practical	Quiz+ Discussion
5 th	٤		proteins ENZYMES: Introduction, Classification & Properties of Enzymes, Coenzymes,	Theoretical+ practical	Quiz+ Discussion

		Logumos & Droongumos		
		Isozymes & Proenzymes		
		Regulation & Inhibition of Enzyme activity &		
		enzymes inhibitors,		
		Clinical Diagnostic		
		Enzymology		
6 th	4	CARBOHYDRATES:	Theoretical+	Owiz
0	٤	Definition, Classification,		Quiz+
		Biochemical Functions &	practical	Discussion
		Significance of		
		Carbohydrates, Structure &		
		Properties of		
		Monosaccharides &		
		Oligosaccharides, Structure		
		& Properties of		
		Polysaccharides, Bacterial		
		cell Wall,		
		Heteropolysaccharides,		
		GAGS.		
7 th	٤	LIPIDS: Classification of	Theoretical+	Quiz+
/	-	Lipids, Fatty Acids:	practical	Discussion
		Chemistry, Classification	practical	D19C0381011
		occurrence & Functions,		
		Structure & Properties of		
		Triacylglycerols and		
		Complex Lipids,		
		Classification & Functions		
		of Eicosanoids,		
		Cholesterol: Chemistry,		
		Functions & Clinical		
		Significance, Bile		
		acids/salts.		
8 th	٤	LIPIDS: Classification of	Theoretical+	Quiz+
		Lipids, Fatty Acids:	practical	Discussion
		Chemistry, Classification		
		occurrence & Functions,		
		Structure & Properties of Triacylglycerols and		
		Complex Lipids,		
		Classification & Functions		
		of Eicosanoids,		
		Cholesterol: Chemistry,		
		Functions & Clinical		
		Significance, Bile		
		acids/salts.		
9 th	٤	NUCLEIC ACIDS:	Theoretical+	Quiz+
7	-	Structure, Functions &	practical	Discussion
		Biochemical Role of	practical	Discussion
		Nucleotides, Structure &		
		Functions of DNA,		
		Structure & Functions of		
		RNA.		
10 th	٤	NUTRITIONAL	Theoretical+	Quiz+
Ĩ		BIOCHEMISTRY:	practical	Discussion
		MINERALS & TRACE	Practical	21504551011
		ELEMENTS		
		Sources, RDA,		
		Sources, RDA, Biochemical Functions &		
		Sources, RDA,		

		Sources,			
11 th	٤	ELEMENT RDA, Bioch Functions & Significance Potassium& Chloride, M	ISTRY: S & TRACE S nemical c Clinical e of Sodium	Theoretical+ practical	Quiz+ Discussion
12 th	ź	VITAMINS RDA, Bioch Functions & Significance Soluble Vita Sources, RD Biochemica Clinical Sign	I,F. VITAMINS: Sources, RDA, Biochemical Functions & Clinical Significance of Fat Soluble Vitamins, Sources, RDA, Biochemical Functions & Clinical Significance of Water Soluble Vitamins.		Quiz+ Discussion
13 th	£	Dietary Imp Carbohydrat	NUTRITION: Dietary Importance of Carbohydrates, Lipids & Proteins, Balanced Diet.		Quiz+ Discussion
14 th	ź	MOLECUI BIOLOGY DNA Repli Repair in Pr	MOLECULAR BIOLOGY: DNA Replication & Repair in Prokaryotes , DNA Replication & Repair		Quiz+ Discussion
15 th	٤	Revision		Theoretical+ practical	Review/
Infrastruct	ture				
1-Required prescribed books -			Various so	ources	
2-Main references (sources)		,2012,U Praksha 2. Lippin	J.R,Agrawal,Kiran nn.	rated reviews	
3-Recommended books and references (scientific journals, reports,)		Open			
4-E1	ectronic referer	nces, Internet sites	Open		

Course development plan

Using modern methods

Course name: Clinical Biochemistry

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

Y-Educational institution	Al-Zahraa Private University -
	for women
2-Scientific department/center	College of Health and Medical
	Technologies – Department of
	Physiotherapy
۳-Course name/code	Clinical Biochemistry
٤-Available attendance forms	Official studying hours
	, ,
4-Semester/year	"First stage of the first
	course"
•-Number of study hours (total)	hours ٤ ٨
6-Date this description was prepared	۲.۲0/۳/۱0/
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Course objectives

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- specific problem The ability to think about solving a -

-Writing scientific reports

Analytical skills- -

C-Teaching and learning methods

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Evaluation methods <u>Participation in the classroom-</u> <u>Evaluating activities within scientific laboratories</u> Emotional and value goalsC- -

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

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

<u>Teaching and learning methods</u> <u>applicatio nConducting the lecture theoretically with the</u> <u>assigning students to weekly research sessions Conducting some daily tests and</u>

Evaluation methods

lesson Evaluating students' active participation during the

absent Commitment to the lecture date and not being -

research Commitment to submitting assignments and-

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

<u>11- structu</u>	re of the c	course/syllab	us		
The week	Hours Required learning outcomes		Name of the unit/topic	Teaching method	Evaluation method
1 st	ź		CELL: Introduction to Biochemistry, Cell: (Biochemical Aspects), Cell Membrane Structure, Membrane Proteins, Receptors & Signal Molecules	Theoretical+ practical	Quiz+ Discussion
	٤		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	ź		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	ź		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	Theoretical+ practical	Quiz+ Discussion
5 th	٤		proteinsENZYMES: Introduction,Classification & Propertiesof Enzymes, Coenzymes,	Theoretical+ practical	Quiz+ Discussion

		Lagruman & Droongruman		
		Isozymes & Proenzymes		
		,Regulation & Inhibition of Enzyme activity &		
		enzymes inhibitors,		
		Clinical Diagnostic		
		Enzymology		
6 th	4	CARBOHYDRATES:	Theoretical+	Ouiz
0	£	Definition, Classification,		Quiz+
		Biochemical Functions &	practical	Discussion
		Significance of		
		Carbohydrates, Structure &		
		Properties of		
		Monosaccharides &		
		Oligosaccharides, Structure		
		& Properties of		
		Polysaccharides, Bacterial		
		cell Wall,		
		Heteropolysaccharides,		
		GAGS.		
$7^{\rm th}$	٤	LIPIDS: Classification of	Theoretical+	Quiz+
1	-	Lipids, Fatty Acids:	practical	Discussion
		Chemistry, Classification	practical	Discussion
		occurrence & Functions,		
		Structure & Properties of		
		Triacylglycerols and		
		Complex Lipids,		
		Classification & Functions		
		of Eicosanoids,		
		Cholesterol: Chemistry,		
		Functions & Clinical		
		Significance, Bile		
oth		acids/salts. LIPIDS: Classification of	T1	0
8^{th}	2	Lipids, Fatty Acids:	Theoretical+	Quiz+
		Chemistry, Classification	practical	Discussion
		occurrence & Functions,		
		Structure & Properties of		
		Triacylglycerols and		
		Complex Lipids,		
		Classification & Functions		
		of Eicosanoids,		
		Cholesterol: Chemistry,		
		Functions & Clinical		
		Significance, Bile		
		acids/salts.		
9 th	٤	NUCLEIC ACIDS:	Theoretical+	Quiz+
-		Structure, Functions &	practical	Discussion
		Biochemical Role of	1	
		Nucleotides, Structure &		
		Functions of DNA,		
		Structure & Functions of		
4 L		RNA.		~ ·
10 th	٤	NUTRITIONAL BIOCHEMISTRY.	Theoretical+	Quiz+
		BIOCHEMISTRY:	practical	Discussion
		MINERALS & TRACE		
		ELEMENTS		
		Sources, RDA,		
		Biochemical Functions & Clinical Significance of		
		Calcium & Phosphorus,		
1		Calcium & rhosphorus,		

		Sources,			
11 th	٤	ELEMENT RDA, Bioch Functions & Significance Potassium& Chloride, M	ISTRY: S & TRACE S eemical Clinical of Sodium	Theoretical+ practical	Quiz+ Discussion
12 th	٤	VITAMINS RDA, Bioch Functions & Significance Soluble Vita Sources, RD Biochemica Clinical Sign	I.F. VITAMINS: Sources, RDA, Biochemical Functions & Clinical Significance of Fat Soluble Vitamins, Sources, RDA, Biochemical Functions & Clinical Significance of Water Soluble Vitamins.		Quiz+ Discussion
13 th	٤	Dietary Imp Carbohydrat	NUTRITION: Dietary Importance of Carbohydrates, Lipids & Proteins, Balanced Diet.		Quiz+ Discussion
14 th	٤	MOLECUI BIOLOGY DNA Repli Repair in Pr	MOLECULAR BIOLOGY: DNA Replication & Repair in Prokaryotes , DNA Replication & Repair		Quiz+ Discussion
15 th	٤	Revision			Review/
Infrastruct	ture				
1-Required	prescribed boo	ıks -	Various so	ources	
2-Main references (sources)		,2012,U Praksha 2. Lippin	J.R,Agrawal,Kiran In.	trated reviews	
3-Recommended books and references (scientific journals, reports,)		Open			
4-El	ectronic referen	nces, Internet sites	Open		

Course development plan

Using modern methods

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

1-Educational institution	Al-Zahraa Private University for - women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
۳-Course name/code	Human Physiology 1
٤-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the first course"
•-Number of study hours (total)	hours [£] A
6-Date this description was prepared	T.TO/T/10/
Course objectives	
objectives Course :Public. living organism, trying to explain the physical and The human responsible for the origin and formation of the and work of each part of the being is a living organism to continue body in different situations in order for life	continuity of life. Since the chemical factors n, the student must understand the function
2. Special:	
: 1 - The cell, its components and function. 2 - The muscular and nervous system and 3 - The function of the cardiovascular and between them. 4 - The urinary system and the regulation system and its relationship to temperature regul glands and their role in regulating the activities be able to know the difference between normal y	respiratory systems and the relationship of body fluids, as well as the digestive ation and thus the work of the endocrine of all other organs. Thus, the student will

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

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

.B - The skills objectives of the course

- remembering Skills of knowledge and

- The ability to think about solving a specific problem - γ

-Writing scientific reports

Analytical skills- -

C-Teaching and learning methods

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

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Evaluation methods classroom Participation in thewithin scientific laboratories Evaluating activities-

Emotional and value goals 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

Teaching and learning methods and practical tests Conducting the lecture theoretically with the application of clinical assigning students to weekly research sessions Conducting some daily tests and grade to daily assignments and tests Allocate a percentage of the

<u>Evaluation methods</u> participation during the lesson Evaluating students' active and not being absent Commitment to the lecture date research nt to submitting assignments and of commitment and academic achievement Semester and final exams express the extent

m)				T 1'	T 1 /
The	Hours	Required	Name of the	Teaching	Evaluation
week		learning	unit/topic	method	method
		outcomes			
1 st	٤		Cell: Morphology.	Theoretical+	Quiz+
			Organelles: their	practical	Discussion
			structure and		
			functions• Transport		
			Mechanisms across		
			the cell membrane•		
			Body fluids:		
			Distribution,		
			composition. Tissue fluid – formation.		
	٤		Blood : 1.	Theoretical+	Quiz+
	4		Composition of Blood,	practical	Discussion
			Plasma, Protein	practical	Discussion
			Formation and their		
			Function. 2. Structure,		
			formation and		
			functions of R.B.C.		
			3. Structure,		
			formation and		
			functions of W.B.Cs.		
			and platelets.		
3 rd	٤		Blood : 4. Coagulation	Theoretical+	Quiz+
			and its defects of	practical	Discussion
			bleeding and clotting		
			time. 5. Blood		
			Groups and their		
			significance, Rh.		
4 th	4		Factor. Blood: 6. Reticulo-	Theoretical	Oniz
4	٤			Theoretical+	Quiz+ Discussion
			endothelial system, Jaundice, Structure	practical	Discussion
			and functions of		
			spleen . 7.		
			Hemoglobin and		
			.E.S.R		
5 th	٤		Cardiovascular	Theoretical+	Quiz+
v			System: 1. Structure,	practical	Discussion
			properties of heart		
			muscle and nerve		
			supply of heart		
			structure and function		
			of arteries, arterioles,		
			capillaries and veins.		

		2 Cardina and 1		
		2. Cardiac cycle and		
		heart sounds. 3.		
		Cardiac output		
		measurement, factors		
		affecting.		
6 th	£	Cardiovascular	Theoretical+	Quiz+
		System: 4. Heart rate	practical	Discussion
		and its regulation,		
		Cardiovascular		
		reflexes. 5. Blood		
		pressure, its		
		regulations and		
		physiological		
		variations. 6.		
		Peripheral resistance,		
		factors controlling and		
		its role in B.P		
7^{th}	٤	Cardiovascular	Theoretical+	Quiz+
		System: 7.	practical	Discussion
		Hemorrhage. 8.		
		Changes in muscular		
		exercise		
8 th	٤	Respiratory System:	Theoretical+	Quiz+
		1. Mechanism of	practical	Discussion
		respiration, intra-		
		pleural and		
		intrapulmonary		
		pressure.		
		2. Lung volumes and		
		capacities.		
9 th	٤	Respiratory System:	Theoretical+	Quiz+
		3. O2 and CO2	practical	Discussion
		carriage and their		
		exchange in tissues		
		and lungs. 4.		
		Nervous chemical		
		regulation of		
		respiration –		
		Respiratory Centers.		
		Respiratory states –		
		Anoxia, Asphyxia,		
		Cyanosis, and		
		Acclimatization.		
10 th	٤	Digestive System : 1.	Theoretical+	Quiz+
Δ.v		General outline and	practical	Discussion
		salivary digestion. 2.	1	
		Gastric secretion and		
		its mechanism of		
		section and functions.		
11 th	٤	Digestive System :	Theoretical+	Quiz+
11	-		incoronour	Zuizi

		2 Digasti	on	practical	Discussion
		3. Digesti		practical	Discussion
		Absorption			
		Metabolisi			
		Proteins.			
		Structure,			
			on of Liver		
12 th	٤	Nutrition	: 1.	Theoretical+	Quiz+
		Digestion,	Absorption	practical	Discussion
		and Metab	olism of		
		Carbohydrates. 2.			
		Digestion,	Absorption		
		and Metab	olism of		
		Fats. 3. D	Digestion,		
		Absorption	-		
		Metabolisi			
		Proteins.			
13 th	٤	Nutrition	4.	Theoretical+	Quiz+
13	-		its sources,	practical	Discussion
		functions a		Practical	- 100 0001011
		resources.			
		Balanced o			
		different a			
		and occup			
14 th	٤	Endocrine		Theoretical+	Quiz+
14	•		ituitary. 2.	practical	Discussion
		Posterior	•	practical	Discussion
		and Parath	•		
		Thyroid.	yroid. <i>5</i> .		
15 th	٤		docrines: 4.	Theoretical+	Review/
15	•		Cortex. 5.	practical	
			nal Medulla,	practical	
			6. Pancreas		
		-	Blood sugar		
		anu	.regulation		
TC			.regulation		
Infrastruct	ture				
1-Required	prescribed books -		Various so	urces	
2-Main refe	erences (sources)		1.		rcise physiology,
	、			McArdle, Willia	
				Frank I.; Katch, edition.2000.	victor L second
			2.		logy: Nutrition,
				Energy and Hu	
				Performance, W	/illiam D.
					I. Katch, Victor L.
			2	Katch, seventh	
			3.	Anatomy and P Therapists and	
L				i nei apisis anu	mannar

	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	

Using modern methods

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

	A1 77 1 Du'
Y-Educational institution	Al-Zahraa Private University -
	for women
2-Scientific department/center	College of Health and Medical
	Technologies – Department of
	Physiotherapy
	5 15
۳-Course name/code	Human Physiology2
٤-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the second
	course"
•-Number of study hours (total)	hours ٤ ٨
6-Date this description was prepared	۲.۲٥/٣/١٥/
Course objectives	

Course objectives

:Public.)

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

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

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

b.The skills objectives of the course -

- remembering Skills of knowledge and

- problem The ability to think about solving a specific -

-Writing scientific reports

Analytical skills- -

C-Teaching and learning methods

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

Evaluation methods <u>Participation in the classroom-</u> <u>laboratories Evaluating activities within scientific-</u>⁷ Emotional and value goalsC- -

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

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

Teaching and learning methods

applicatio nConducting the lecture theoretically with the

assigning students to weekly research sessions Conducting some daily tests and grade to daily assignments and tests Allocate a percentage of the

Evaluation methods

lesson Evaluating students' active participation during the absent Commitment to the lecture date and not being research Commitment to submitting assignments andcommitment and academic Semester and final exams express the extent of achievement

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st	٤		Reproductive System: 1. Sexdetermination anddevelopment, Puberty.2. Male sexhormones and theirfunctions,spermatogenesis.	Theoretical+ practical	Quiz+ Discussion
	£		Reproductive System: 3. Female sexhormonesandfunctions, menstrualcycle, ovulation andcontraceptives.4.Pregnancy, functionsofplacentaandlactation	Theoretical+ practical	Quiz+ Discussion
3 rd	٤		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	٤		Excretory System: 3. Renal function. 4. Physiology of Micturition	Theoretical+ practical	Quiz+ Discussion
5 th	٤		Muscle and Nerve: 1. Structure of Neurons, membrane potential and generation of action potential. 2. Nerve impulse conduction, Saltatory conduct ion.	Theoretical+ practical	Quiz+ Discussion
6 th	٤		Muscle and Nerve:3.Neuromuscularjunction and drugsacting on it –Myasthenia.4.	Theoretical+ practical	Quiz+ Discussion

		Decomposition		
		Degeneration and		
		regeneration in		
		peripheral nerves –		
		Wallerian		
		degeneration of		
		electro tonus and		
th		Pflagers Law.	T 1 (1)	0.1
7 th	£	Muscle:: 1. Type	Theoretical+	Quiz+
		of muscles and their	practical	Discussion
		gross structure,		
		stimulus chronaxie,		
		strength duration		
		curve. 2. Structure		
		of sarcomere – Basis		
		of muscle		
		contraction, Starling's		
		Law and changes		
		during muscle		
		contraction.		
8 th	٤	Muscle: 3. Electrical	Theoretical+	Quiz+
		– Biphasic and	practical	Discussion
		monophasic action		
		potentials. 4.		
		Chemical, Thermal		
		and Physical changes,		
		isometric and isotonic		
		contraction.		
9 th	٤	Muscle: 5. Motor	Theoretical+	Quiz+
		units and its	practical	Discussion
		properties, Clonus,		
		Tetanus, All or None		
		Law, Beneficial		
		Effect. 6. Nature of		
		Voluntary contraction,		
		Fatigue.		
10 th	٤	Nervous System: 1.	Theoretical+	Quiz+
20		Types and properties	practical	Discussion
		of Receptors, types of	1	
		sensations. 2.		
		Structure of		
		Synapses, Reflex and		
		its properties,		
		occlusion summation,		
		sub minimal fringe,		
		etc.		
th			Theoretical+	Quiz+
11	ź	Nervous Systeme 5		Jul
11 th	٤	Nervous System: 3. Tracts of Spinal Cord.		-
11 ^m	٤	Tracts of Spinal Cord.	practical	Discussion
11"	£	Tracts of Spinal Cord. 4. Descending,		-
11 th	٤	Tracts of Spinal Cord.		-

12 th	٤		Norvous	System: 5.	Theoretical+	Quiz+	
12	2		Hemi sect	-	practical	Discussion	
				section of	practical	Discussion	
			spinal cor				
			and lower				
			neuron paralysis. 6. Cerebral cortex –				
			Cerebral cortex – areas and functions,				
			E.E.G.	lunctions,			
13 th	ź			System: 7.	Theoretical+	Quiz+	
13	2			connections	practical	Discussion	
				functions of	practical	Discussion	
				rebellum. 8.			
				nections and			
				ions of Basal			
			Tunct				
			T 1.	Ganglia and			
a th	,		Thalamus.		TT1 (* 1)	0.1	
14 th	٤			System: 9.	Theoretical+	Quiz+	
				ar formation,	practical	Discussion	
				, posture and			
			-	librium. 10.			
			Autono	omic nervous			
th				system.		.	
15 th	٤			Revision	Theoretical+	Review/	
					practical		
Infrastruct	ture						
1-Required	prescribed	books -		Various so	urces		
1 Requirea	presenteed	COORD		various so	ui ces		
2-Main refe	roncos (so	urces)		1. Essent	tial of exercise phy	siology, McArdle.	
2-11111111111	stellees (so	ulces)			m D.; Katch, Frank		
				second	l edition.2000.		
				2.	•		
				Energy and Human Performance , William D.			
						I. Katch, Victor L.	
					Katch, , seventh		
				3.			
					Therapists and		
					Professionals ,F		
					Couldridge, Vick	a siegg, , 2009.	
2.0		1 0		0			
3-Recommended books and references		Open					
(scientific j	ournals, re	ports,)					
4-F1	ectronic re	ferences Inte	rnat sitas	Open			
4-Electronic references, Internet sites		UDEII					

Course development plan

Using modern methods

Teacher name:

Zainab ali

•

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-

۱-Educational institution	Al-Zahraa Private University - for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
۳-Course name/code	"Introduction to physical therapy
٤-Available attendance forms	Official studying hours
4-Semester/year	First stage/second course"
•-Number of study hours (total)	Approximately 90 hours
6-Date this description was prepared	7.70/7/10/
Course objectives	
profession of physical therapy and directing them to it	General: Introducing students to the.

:Private.^Y .importance of applying physical therapy to improve human health The

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

.use basic terminology in physical therapy Define and

.daily vital activities Knowledge of

.patients' privacy Respect

10-Course outcomes and teaching, learning and evaluation methods

A-

Cognitive objectives therapy Learn about the profession of physical various pathological The purpose of applying physical therapy to conditions

.B - The skills objectives of the course- focus and analyze Ability to.to think about solving a specific problem The ability

C-Teaching and learning methods

the scientific material is discussed and There is a group of printed lectures where important notes are made Additional clarifications Evaluation methods <u>Participation in the classroom-</u> <u>laboratories Evaluating activities within scientific-</u>^Y

C- Emotional and value goals

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

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

ability to choose the appropriate device for medical Developing the student's <u>conditions</u>

Teaching and learning methods

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

assigning students to weekly research sessions Conducting some daily tests and grade to daily assignments and tests Allocate a percentage of the

Evaluation methods

lesson Evaluating students' active participation during the being absent Commitment to the lecture date and not research Commitment to submitting assignments andof commitment and academic Semester and final exams express the extent achievement

The week	Hours	Required	Name of the	Teaching method	Evaluation method
week		learning outcomes	unit/topic	method	method
1 st	٤		microbiology-	Theoretical+	Quiz+
			Introduction	practical	Discussion
			µscope,precaution s, waste disposal		
	٤		Classification of Micro-	Theoretical+	Quiz+
			organisms &	practical	Discussion
ard	4		morphology of Bacteria Sterilization &	Theoretical+	
3 rd	٤		disinfection [basic		Quiz+ Discussion
			concepts] hospital	practical	Discussion
			acquired infection,		
			universal safety		
4 th	٤		immunology : Antigen	Theoretical+	Quiz+
			antibody - reaction &	practical	Discussion
			application for		
			diagnosis;Immune response -		
			normal/abnormal		
5 th	٤		immunology : Innate	Theoretical+	Quiz+
5	-		immunity & acquired	practical	Discussion
			immunity	F	
			[vaccination],Hyper -		
			sensitivity & auto-		
6 th	٤		immunity Laboratory Diagnosis of	Theoretical+	Quiz+
0	4		Infection	practical	Discussion
7 th	£		Bacteriology :	Theoretical+	Quiz+
1	-		.Infection caused by	practical	Discussion
			gram +ve cocci; Gas	praetical	21500,551011
			gangrene - clostridium -		
			Diphtheria ,Infection		
			caused by gram –ve		
			cocci, Septicemia- cholera - Shock		
			Typhoid diarrhea		
8 th	٤		Bacteriology :	Theoretical+	Quiz+
Ū			Mycobacterial infection	practical	Discussion
			tuberculosis: Leprosy-	1	
			Atypical Mycobacterium		
			d.syphilis – morphology		
9 th	٤		& pathogenesis [VDRL] Viruses: Introduction &	Theoretical+	Ouizt
y	4		general properties, .HIV	practical	Quiz+ Discussion
10 th	٤		Viruses Polio, measles,	Theoretical+	Quiz+
10	-		congenital viral	practical	Discussion
			infections, Rubella,	Practical	21500551011

			CMV Herp	bes			
11 th	٤		Mycology		Theoretical+	Quiz+	
					practical	Discussion	
12 th	٤		Introducti	on to	Theoretical+	Quiz+	
			Biosafety a	and Security,	practical	Discussion	
				components	1		
			of biorisk				
			manageme				
			measures				
			laboratori				
			laboratory General sa	0 .			
				is, Personal			
			-	equipment.			
13 th	٤		Biosafety l		Theoretical+	Quiz+	
15			assessmen		practical	Discussion	
			Hazard gr		praetieur	Discussion	
			biosafety l				
			equipment	t, Standard			
			practices r				
			_	laboratories.			
14 th	٤			ical factors,	Theoretical+	Quiz+	
			Routes of i		practical	Discussion	
			Risk grou				
				on, Biosafety			
				Control of hazardous			
			to health.	5 Hazai uous			
15 th	£		Revision		Theoretical+	Review/	
15					practical		
Infrastruct	turo				F		
IIIIasuuc	luic						
1-Required	prescribed	books -		Various so	urcoc		
1-Kequileu	presented	UUUKS -		various so	unces		
2 Main rafe	roncos (sou	(reas)					
2-Main refe	erences (sou	lices)		Introduction to Dhusical Theorem			
				Introduction to Physical Therapy .			
			6	th Edition, 2(020 .Michael		
					Pagliarulo.		
				Introdu	ction to Phys	sical Therapy	
				and Patient Skills. Mark Dutton.			
				2021 by McGraw Hill.			
					-		
					skeletal Asse	essment Joint	
					skeletal Asse		
				Range	oskeletal Asse of Motion, Mu	essment Joint uscle Testing,	
				Range	oskeletal Asse of Motion, Mu tion 4th Editi	essment Joint Iscle Testing, on . ^ү • ^ү • By:	
				Range of and Funct	oskeletal Asse of Motion, Mu tion 4th Editi Hazel	essment Joint uscle Testing, on . ^ү • ^ү • By: M. Clarkson.	
				Range o and Funct Grieve's	oskeletal Asse of Motion, Mu tion 4th Editi Hazel s Modern Mu	essment Joint Iscle Testing, on . ^ү • ^ү • By:	

	Gwendolyn Jull.
3-Recommended books and references (scientific journals, reports,)	Open
4-Electronic references, Internet sites	Open
Course development plan	

Course development plan	
Using modern methods	

Description Form

Course Description

course This course description provides a summary of the main features and the learning outcomes expected of the student demonstrating whether they have made the most of the learning .available opportunities

Alzahraa University for women	institution Educational .
- College of Health and Medical Technologies	Department / Scientific .*
Department of Physiotherapy	Center
General anatomy	Course Name/Code ."
Official working hours	٤. Available attendance
	forms
/ first academic year First and second semester	semester/year .°
hours ۱۲.	hours Number of study .
	((total
۲.۲٥/٣/١٥	description was Date this . ^v
	prepared
	Course objectives

Course objectives .^

General .

importance of anatomy and the location of the student the teach To . organs in his field of specialization

:Private .

.system of the forearm 1. Identify the bones, muscles, and nervous and hand and prepare for .2 Identify the bones and muscles of the wrist .use

. system of the lower limb .3 Identify the bones, muscles , and nervous .system of the neck and spine Identify the bones, muscles , and nervous t

.in general Gain knowledge of the structure of the human body .•

.and levels Knowledge of anatomical positions, terms 7.

.Types of tissues .V

. of different organs Understanding the histological features .^

. Identify muscle tissues and their types .٩

. Identify bones and their types $\cdot \cdot$.

.Identify joints and their types **11**.

. bones, muscles, and nervous system of the upper limb Identify the . 17

methods Course outcomes , teaching, learning and assessment.) •

أ- cognitive objectives

different tissues Learn about the anatomy of the human body and the . human organs -2 Identify the .of the body and distinguish between them -4 The of the body organs to the body surface -3 The relationship of the human organs to each other relationship

. Course specific skill objectives - B

. B2 Gaining skills and experience in educational and health programs -B1 Gaining skills - . B3 understanding of body anatomy - Gaining a technical other in understanding body parts and the systems related to each .anatomically

and learning methods Teaching Ongoing daily tests the virtual anatomy lab Exercises and activities in relevant scientific and • websites, applications Guiding students to the best references

methods Evaluation

- Participate in the classroom .
 - Daily and monthly tests . Y
- Writing and presenting reports and research $\ . ilde{r}$
 - Scientific discussions attendance .
 - and daily activities $\, .^{o} \,$

and value-based goals C- Emotional

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

the student's ability to dialogue, research and discuss Developing the student's ability to develop an appropriate program for Developing conditions different medical

Teaching and learning methods

clinical and practical Lecture management theoretically with application of tests

to weekly research Conducting some daily tests and assigning students .sessions

.assignments and tests Allocate a percentage of the grade to daily

methods Evaluation

students' active participation during the lesson Evaluating to the lecture time and not being absent Commitment

to submit assignments and research Commitment

and final exams reflect the extent of commitment and academic Midterm .achievement

related to employability and D - General and transferable skills (other skills .(personal development

different medical conditions Developing the student's ability to deal with research methods Developing the student's ability to use scientific discuss, and gain self-confidence •Developing the student's ability to dialogue

.student should behave appropriately in job interviews The

himself after graduation For the student to develop available means to increase his efficiency The student should use the

	Course structure .				
Evaluatio n method	Teaching method	Unit name/topic	Required learning outcomes	watch es	week
discussion	In-person education in classrooms includes a scientific lecture with images and of videos . anatomy in 3D As for the practical aspect, it will be in the lab, with virtual dissection in to addition .models	Forearm Mention the bones of forearm. Identify the ends, borders, surfaces and features of radius and ulna. Identify the head, neck, tuberosity and styloid process of radius. Identify the coronoid process, olecranon process, trochlear notch, tuberosity, head and styloid process of ulna. Also the radial notch of ulna and ulnar notch of radius Identify the muscles of the front and back of the forearm. Mention the position, origin, insertion, nerve supply and action of these muscles	Student knowledge of the scientific material and of awareness scientific, mental, professional, applied and clinical skills	£	1 st
discussion	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	Mention the bones of forearm. Identify the ends, borders, surfaces and features of radius and	Student of knowledge the scientific material and awareness of scientific, mental, •professional applied and clinical skills	£	2nd
Questions and discussion	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	ulna. Identify the head, neck, tuberosity and styloid process of radius. Identify the coronoid	Student knowledge of scientific the material and awareness of scientific, mental, 'professional applied and clinical skills	٤	3rd
Review and discussion	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	process, olecranon process, trochlear notch, tuberosity, head	Student knowledge of the scientific material and of awareness scientific, mental, professional, applied and clinical skills	£	4th
short exam	As for the practical aspect, it will be in the with virtual (lab dissection in addition to	and styloid process of ulna. Also the radial notch of ulna and ulnar notch of radius Identify	Student knowledge of scientific the material and awareness of scientific,	£	5th

	.models		mental,		
			professional		
			applied and		
			clinical skills		
Oral test	In-person	the muscles of the front and	Student	£	6th
	education in	back of the forearm. Mention	knowledge of		
	classrooms	the position, origin, insertion,	scientific the		
	includes a	nerve	material and awareness of		
	scientific lecture		scientific,		
	with images and videos of		mental,		
	. anatomy in 3D		professional		
	. anatomy m 5D		applied and		
			clinical skills		
Questions	As for the	supply and action of these	Student	٤	7th
and	practical aspect,	muscles.	knowledge of		,
discussion	it will be in the		scientific the		
uiscussion	with virtual (lab		material and		
	dissection in		awareness of		
	addition to		scientific,		
	.models		mental,		
			<pre> •professional </pre>		
			applied and clinical skills		
Written	In-person	Forearm, Mention the position	Student	ź	04h
	education in	and distribution of radial and	knowledge of	4	8th
exam	classrooms	ulnar arteries and ulnar, second	scientific the		
	includes a	median	material and		
	scientific lecture		awareness of		
	with images and		scientific,		
	videos of		mental,		
	. anatomy in 3D		<pre> •professional </pre>		
			applied and		
			clinical skills		
practical	As for the	and radial nerves. Mention the	Student	ź	9th
exam	practical aspect,	type, articular surface and	knowledge of scientific the		
	it will be in the	ligaments of radioulnar joints.	material and		
	with virtual (lab dissection in		awareness of		
	addition to		scientific,		
	.models		mental,		
	.11104615		professional		
			applied and		
			clinical skills		
discussion	In-person	Define the movements and	Student	٤	10th
	education in	muscles producing these	knowledge of		
	classrooms	movements.	scientific the		
	includes a		material and		
	scientific lecture		awareness of		
	with images and		scientific,		
	videos of		mental,		
	. anatomy in 3D		 professional applied and 		
			applied and clinical skills		
Discussion	As for the	Wrist, Name and identify the	Student	ź	114L
	practical aspect,	carpal bones, metacarpal bones	knowledge of	4	11th
questions		and phalanges in an third	scientific the		
questions	it will be in the	and phalanges in an third	scientific the material and		
questions		and phalanges in an third			

	.models		mental, •professional		
			applied and clinical skills		
Reviews	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	articulated hand, Name and locate the carpal bones. Define and demonstrate the movements	Student knowledge of scientific the material and awareness of scientific, mental, oprofessional applied and	ź	12th
practical exam	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	and mention the muscles producing them. Mention its blood supply and nerve supply.	clinical skills Student knowledge of scientific the material and awareness of scientific, mental, 'professional applied and clinical skills	ŧ	13th
Questions and discussion	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	Hand, Mention the type of bones forming and ligaments of joints of hand. Ellipsoid type of IV	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	£	14th
Review and discussion	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	metacarpophalangeal joints and saddle type of carpometacarpal joint.	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	ź	15th
short exam	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	Introduction: Define Anatomy and mention its sub-divisions, Name regions, cavities and the first	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	ź	16th
Oral test	As for the practical aspect, it will be in the with virtual (lab dissection in addition to	systems of the body.	Student knowledge of scientific the material and awareness of scientific,	£	17th

	.models		mental, 'professional		
			applied and clinical skills		
Questions and discussion	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	Histology: General Histology, study of the basic tissues of the body (classify and mention the second	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	ź	18th
Written	As for the	microscopic structure of types	Student	£	19th
exam	practical aspect, it will be in the with virtual (lab dissection in addition to .models	of tissues) such as, Cell, Epithelium, Connective Tissue,	knowledge of the scientific material and of awareness scientific, mental, professional, applied and clinical skills		1701
practical	In-person education in	Cartilage, Bone, Muscular tissue, Nerve Tissue – TS &	Student knowledge of	٤	20th
exam	classrooms includes a scientific lecture with images and videos of . anatomy in 3D	LS, Circulatory system – large sized artery,	scientific the material and awareness of scientific, mental, 'professional applied and clinical skills		
discussion	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	Medium sized artery, large sized vein, lymphoid tissue, skin and its appendages.	Student knowledge of scientific the material and awareness of scientific, mental, 'professional applied and clinical skills	\$	21 st
Discussion questions	In-person education in classrooms includes a lecture scientific with images and videos of . anatomy in 3D	Osteology: Anatomical positions of the body, axes, planes, common anatomical terminologies III	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	ź	22nd
Written exam	As for the practical aspect, it will be in the with virtual (lab dissection in addition to	(grooves, tuberosity, trochanters etc), Connective tissue classification,	Student knowledge of scientific the material and awareness of scientific,	£	23rd

	.models		mental, professional		
			applied and clinical skills		
Written exam	In-person education in classrooms includes a scientific lecture with images and videos of	Osteology: Bones Composition and functions, classification of types according to morphology IV	Student knowledge of scientific the material and awareness of scientific, mental,	£	24th
	. anatomy in 3D		professional, and applied clinical skills		
Questions and discussion	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	and development, growth and repair, structure of long bone, vertebral column, types of vertebrae,	Student knowledge of scientific the material and awareness of scientific, mental, 'professional applied and clinical skills	٤	25th
practical control	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	bones of extremities and body landmarks	Student knowledge of scientific the material and awareness of scientific, mental, 'professional applied and clinical skills	£	26th
Oral questions	As for the practical aspect, it will be in the with virtual (lab dissection in addition to .models	Arthrology: Definitions, Classification of joints, Construction of joints, Motions of joints, V	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	£	27th
Written exam	In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	Structure of fibrous, cartilaginous joints,	Student knowledge of scientific the material and awareness of scientific, mental, professional applied and clinical skills	£	28th
Quick test	As for the practical aspect, it will be in the with virtual (lab dissection in addition to	Arthrology: Blood supply and nerve supply of joints, Articulations – articular surfaces, types of VI	Student knowledge of scientific the material and awareness of scientific,	£	29th

Quick test	.models In-person education in classrooms includes a scientific lecture with images and videos of . anatomy in 3D	joints, motions of upper and lower extremities, trunk, head	men 'profess appliec clinical Stud knowles scientifi materia awaren scient men 'profess appliec clinical	sional l and skills ent dge of ic the al and ess of ific, tal, sional l and	٤	30th
			infra	struc	ture	.17
					-	uired -
ATLAS OF Clinical Ana Gray's A	FUNCTIONAL N atomy of the Spine Anatomy for Stud Drake, A. Wayne natomy Coloring 1	s, Byas Deb Ghosh Professo Anatomy Second Edition NEUROANATOMY By Wa J. HENDELMA e, Spinal Cord, and ANS, Th Edition 2014, by ents, Third Edition Richard Vogl, Adam W. M. Mitchel Book (Dover Children's Scie 2, by Margaret Matt (Author Ziemian (A	n: 2013 lter .2 N,2000 hird .3 Mosby d L4 l, 2015 ence .5 or), Joe		te n referen nrces	xtbooks nces - ^۲
6. Atlas of H	Human Anatomy (Netter Basic Science) by Fi Nett	rank H. ter,200			
			Open		bo refe entific je	nded -A oks and rences (ournals, orts, etc
			<u>Open</u>		refe	onic - B erences, vebsites

Development Plan Curriculum. ۱۳

educational content with the ability to delete, replace, and add, and Developing reviewing the latest international references

modern methods that suit the subject and students in some lectures Using

of modern assessment methods Use . innovative teaching and learning methods Following the latest and most - from the results of modern research in anatomy Benefit . modern teaching strategies in biology Applying

Course description form

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

\ -Educational institution	Al-Zahraa Private University -
	for women
2-Scientific department/center	College of Health and Medical
1	Technologies – Department of
	Physiotherapy
۳-Course name/code	Basic Nursing & First Aids
٤-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the second
	course"
•-Number of study hours (total)	54hours
6-Date this description was prepared	7.70_7_10
Course objectives	
Course objectives	
:Public.	
2. Special:	
:	

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10-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives
.B - The skills objectives of the course
- Skills of knowledge and remembering -Writing scientific reports Analytical skills
C-Teaching and learning methods
Evaluation methods Participation in the classroom- laboratories Evaluating activities within scientific- ^Y
<u>Emotional and value goalsC</u> <u>completing assignments and submitting</u> Developing the student's ability to work by <u>them on time</u> <u>ability to dialogue, research and discuss</u> Developing the student's

<u>Teaching and learning methods</u> <u>applicatio nConducting the lecture theoretically with the</u> <u>assigning students to weekly research sessions Conducting some daily tests and</u>

Evaluation methods

lesson Evaluating students' active participation during the absent Commitment to the lecture date and not being research Commitment to submitting assignments andof commitment and academic Semester and final exams express the extent achievement

<u>11- structu</u>	re of the co	ourse/syllab	us		
The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 st 6		IntroductionDefinition of first aid. Importance of first aid, Golden rules of first aid, Scope and concept of emergency.	Theoretical+ practical	Quiz+ Discussion	
	6		First aid emergenciesBurns & Scalds : Causes, Degrees of burns, First aid treatment, Generaltreatment.	Theoretical+ practical	Quiz+ Discussion
3 rd	6		First aid emergenciesPoisoning: 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</i> <i>body intrusion:</i> Eye, ear, nose, throat, stomach and lungs.	Theoretical+ practical	Quiz+ Discussion
5 th	6		First aid emergenciesBites:First aid, signs,symptoms andtreatment.a)Dog bite : rabiesSnake bite :neurotoxin,bleedingdiathesisb)Snake bite :neurotoxin,bleedingdiathesisb)Snake bite :neurotoxin,bleedingdiathesis	Theoretical+ practical	Quiz+ Discussion
6 th 6		Skeletal injuriesDefinition: Types of fractures of various parts of the body. Causes, Signs andSymptoms. Rules of treatment, Transportation of patient with fracture and spinalcord injuries. First aid measures in	Theoretical+ practical	Quiz+ Discussion	

		dislocation of joints. Treatment of muscleinjuries.		
7 th	6	Respiratory	Theoretical+	Quiz+
		emergencies: Asphyxia: Etiology, Signs & Symptoms, rules of treatment.	practical	Discussion
8 th	6	Respiratory	Theoretical+	Quiz+
	Ŭ	emergencies: Drowning: Definition and management.	practical	Discussion
9 th	6	Respiratory	Theoretical+	Quiz+
	U	emergencies: Artificial respiration: Types and techniques.	practical	Discussion
10 th	6	Wounds and	Theoretical+	Quiz+
		Hemorrhage Wounds: Classification, management.	practical	Discussion
11 th	6	Wounds and	Theoretical+	Quiz+
		Hemorrhage Haemorrha ges: Classification, signs and symptoms, rules for treatment of hemorrhage.	practical	Discussion
12 th	6	Wounds and	Theoretical+	Quiz+
		HemorrhageTreatment of hemorrhage from special areas (Scalp, mouth, nose, ear, palm and various veins).Internal haemorrhages: Visible and concealed.	practical	Discussion
13 th	6	F. Shock and	Theoretical+	Quiz+
		unconsciousness Definition: Types of shock,Common causes of shock, signs and symptoms ofshock (assessment of established shock). General and special treatment ofestablished shock	practical	Discussion
14 th	6	Transportation of the	Theoretical+	Quiz+
		injured 1. Methods of transportation: Single helper, Hand seat, Stretcher, Wheeledtransport (ambulance).	practical	Discussion

			2. Precautions taken: Blanket lift, Air and Sea travel. Revision			
15 th	6				Theoretical+ practical	Review/
Infrastruct	ture					
1-Required	prescribed	books -	Various sources			
2-Main references (sources)			 manual of first aid :management of general injuries ,sports injuries and common ailments <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 dev	elopment pl	lan				

Using modern methods

Course description form

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

Y-Educational institution	Al-Zahraa Private University -
	for women
2-Scientific department/center	College of Health and Medical
	Technologies – Department of
	Physiotherapy
	5 15
۳-Course name/code	" Medical microbiology
٤-Available attendance forms	Official studying hours
4-Semester/year	"First stage of the first
	course"
•-Number of study hours (total)	hours ٤ ٨
6-Date this description was prepared	7.70_7-10
Course objectives	

1.General:

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

2. Special:

the body Knowing the types of causes that cause injuries to factors and chromosomal changes Genetic .defense mechanism against pathogens The body's pathogens and how to prevent them Some

10-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

Clarifying basic concepts in microbiology microenvironment And understanding the components of the

.B - The skills objectives of the course The student can use a microscope media Growing microorganisms on different cultural microorganisms Differentiate between different types of

C-Teaching and learning methods

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

Evaluation methods <u>Participation in the classroom-</u> <u>laboratories Evaluating activities within scientific-</u>^Y Emotional and value goalsC-

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

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

D-Teaching and learning methods

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

assigning students to weekly research sessions Conducting some daily tests and grade to daily assignments and tests Allocate a percentage of the

E-Evaluation methods

lesson Evaluating students' active participation during the

being absent Commitment to the lecture date and not -

research Commitment to submitting assignments and-

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

The	Hours	Required	Name of the	Teaching	Evaluation
week learning outcomes		unit/topic	method	method	
1 st	£			n Theoretical+ practical	Quiz+ Discussion
	٤		Classification of Micro- organisms & morphology of Bacteria	Theoretical+ practical	Quiz+ Discussion
3 rd	£		Sterilization & disinfection [basic concepts] hospital acquired infection, universal safety	Theoretical+ practical	Quiz+ Discussion
4 th	٤		immunology :Antigen antibody - reaction & application for diagnosis;Immune response - normal/abnormal	Theoretical+ practical	Quiz+ Discussion
5 th	£		immunology : Innate immunity & acquired immunity [vaccination],Hyper - sensitivity & auto- immunity	Theoretical+ practical	Quiz+ Discussion
6 th	٤		Laboratory Diagnosis of Infection	Theoretical+ practical	Quiz+ Discussion
7 th	٤		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	£		Bacteriology : Mycobacterial infection tuberculosis: Leprosy- Atypical Mycobacterium d.syphilis – morphology & pathogenesis [VDRL]	Theoretical+ practical	Quiz+ Discussion
9 th	ź		Viruses: Introduction & Theoretical+		Quiz+ Discussion
10 th	٤		Viruses Polio, measles, congenital viral infections, Rubella,	practical Theoretical+ practical	Discussion Quiz+ Discussion

			CMV Herp	es		
11 th	٤		Mycology		Theoretical+ practical	Quiz+ Discussion
12 th	ź		The main of of biorisk managemen measures i laboratorio laboratory General sa precaution	and Security, components ent, Safety n all es and design,	Theoretical+ practical	Quiz+ Discussion
13 th	ź		Biosafety I assessment Hazard grubiosafety le equipment practices r	evel, risk t strategy, oups, evels and c, Standard	Theoretical+ practical	Quiz+ Discussion
14 th	ź		The biological factors, Routes of infection, Risk group classification, Biosafety measures, Control of substances hazardous to health.		Theoretical+ practical	Quiz+ Discussion
15 th	٤		Revision	l	Theoretical+ practical	Review/
Infrastruct	ture					
1-Required	prescribed	books -		Various so	ources	
2-Main references (sources)			 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