

## Description Form

### Course Description

This course description provides a summary of the main course features and the learning outcomes expected of the student demonstrating whether the student has made the most of the learning opportunities available. It must be linked to the program description .

<b>Alzahraa University for women</b>	<b>1. Educational institution</b>
<b>College of Health and Medical Technologies - Department of Physiotherapy</b>	<b>2. Scientific Department / Center</b>
<b>General anatomy</b>	<b>3. Course Name/Code</b>
<b>Official working hours</b>	<b>4. Available attendance forms</b>
<b>First and second semester / second academic year</b>	<b>5. semester/year</b>
<b>120hours</b>	<b>6. Number of study hours (total(</b>
<b>2025/3/15</b>	<b>7. Date this description was prepared</b>
<b>8. Course objectives</b> <b>.1 General</b> <b>Learn about the different body systems</b> <b>Learn about the central nervous system, its parts, and some other parts and areas of the body.</b>	
<b>.2Private:</b> <b>.1Identify the different areas of the body.</b> <b>.2 Identify the cardiovascular system .</b> <b>3. Identify the respiratory system .</b> <b>4. Learn about the digestive system.</b> <b>.5 Identify the genitourinary system</b> <b>.6Identify the central and peripheral nervous systems.</b>	

- 7 Learn about the spinal cord, its parts and branches.**
- .8 Identify the chest, abdomen and back areas**
- .9 Getting to know the endocrine glands in the body**
- .10 An overview of embryology**

## 10.Course outcomes , teaching, learning and assessment methods

### A- cognitive objectives

.1Learn about the anatomy of the human body . 2. Learn about the human organs . 3. The relationship of the body organs to the body surface .4. The relationship of the human organs to each other.

### B - Course specific skill objectives.

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

### Teaching and learning methods

Ongoing daily tests

Exercises and activities in the virtual anatomy lab

Guiding students to the best websites, applications and relevant scientific references

### Evaluation methods

1. Participate in the classroom
2. Daily and monthly tests
3. Writing and presenting reports and research

<p>4. Scientific discussions attendance</p> <p>5. and daily activities</p>
<p>C- Emotional and value-based goals</p> <p>Developing the student's ability to work on completing assignments and submitting them on time</p> <p>Developing the student's ability to dialogue, research and discuss</p> <p>Developing the student's ability to develop an appropriate program for different medical conditions</p>
<p>Teaching and learning methods</p> <p>Lecture management theoretically with application of clinical and practical tests</p> <p>Conducting some daily tests and assigning students to weekly research sessions.</p> <p>Allocate a percentage of the grade to daily assignments and tests.</p>
<p>Evaluation methods</p> <p>Evaluating students' active participation during the lesson</p> <p>Commitment to the lecture time and not being absent</p> <p>Commitment to submit assignments and research</p> <p>Midterm and final exams reflect the extent of commitment and academic achievement.</p>
<p>D - General and transferable skills ( other skills related to employability and personal development.(</p> <p>Developing the student's ability to deal with different medical conditions</p> <p>Developing the student's ability to use scientific research methods</p> <p>Developing the student's ability to dialogue ‘discuss, and gain self-confidence</p> <p>The student should behave appropriately in job interviews.</p> <p>For the student to develop himself after graduation</p> <p>The student should use the available means to increase his efficiency.</p>

<b>11.Course structure</b>					
<b>Evaluation method</b>	<b>Teaching method</b>	<b>Unit name/topic</b>	<b>Required learning outcomes</b>	<b>watch es</b>	<b>week</b>
<b>discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D . As for the practical aspect, it will be in the lab, with virtual dissection in addition to models.</b>	<b>ervous system: Central Nervous System: Disposition, Parts and Functions, Brain stem (Pons, first</b>	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional, applied and clinical skills</b>	<b>4</b>	<b>1<sup>st</sup></b>
<b>discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	<b>Medulla, and Mid Brain).</b>	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ,applied and clinical skills</b>	<b>4</b>	<b>2nd</b>
<b>Questions and discussion</b>	<b>As for the practical aspect, it will be in the</b>	<b>Nervous system: Cerebrum, Cerebellum, Thalamus,</b>	<b>Student knowledge of the scientific</b>	<b>4</b>	<b>3rd</b>

	lab ‘with virtual dissection in addition to models.	Hypothalamus, Internal Capsule, Blood	material and awareness of scientific, mental, professional ‘applied and clinical skills		
<b>Review and discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Supply of Brain	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional, applied and clinical skills</b>	<b>4</b>	<b>4th</b>
<b>short exam</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Nervous system: Stroke and its types, Ventricles of Brain, CSF circulation and Hydrocephalus	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>5th</b>
<b>Oral test</b>	<b>In-person education in</b>	Meninges of brain.	<b>Student knowledge</b>	<b>4</b>	<b>6th</b>

	<b>classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>		<b>of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>		
<b>Questions and discussion</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Nervous system: Neural pathways (Neural Tracts), Pyramidal and Extra pyramidal System	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>7th</b>
<b>Written exam</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	(Ascending and Descending tracts),Functional significance of Spinal cord level	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>8th</b>

<b>practical exam</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Nervous system: Cranial Nerves with special emphasis upon IV, V, VII, XI, XII (their course, V	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>9th</b>
<b>discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	distribution, and palsies).	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>10th</b>
<b>Discussion questions</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Nervous system six , Autonomic nervous system, its components, Nerve receptors.	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional , applied and</b>	<b>4</b>	<b>11th</b>

			<b>clinical skills</b>		
<b>Reviews</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Spinal cord: Gross appearance, Structure of spinal cord, Gray and white matter (brief vii	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>12th</b>
<b>practical exam</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	description).	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>13th</b>
<b>Questions and discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Spinal cord: Meninges of spinal cord, Blood supply of spinal cord, Autonomic Nervous system .	<b>Student knowledge of the scientific material and awareness of scientific, mental, profession</b>	<b>4</b>	<b>14th</b>



			<b>al ‘applied and clinical skills</b>		
<b>Review and discussion</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Thorac IX region, Thoracic Wall: Bones: Ribs, Sternum, Thoracic Vertebrae, Joints, Muscles,	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>15th</b>
<b>short exam</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Nerves, Blood, Vessels, Lymphatics, thoracic cavity, intercostal spaces, Movements of	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>16th</b>
<b>Oral test</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	Respiration, Mediastinum-Boundaries & Contents, Pleura & Lungs, Pericardium, Heart & Great	<b>Student knowledge of the scientific material and awareness of scientific,</b>	<b>4</b>	<b>17th</b>

			<b>mental, professional, applied and clinical skills</b>		
<b>Questions and discussion</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Vessels, Diaphragm, Azygous vein, Esophagus, Trachea. Thoracic duct	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ,applied and clinical skills</b>	<b>4</b>	<b>18th</b>
<b>Written exam</b>	<b>As for the practical aspect, it will be in the lab ,with virtual dissection in addition to models.</b>	Abdomen region: Bones: Lumbar vertebrae, Pelvis (Male & Female), Sacrum, Joints Anterior	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional al, applied and clinical skills</b>	<b>4</b>	<b>19th</b>
<b>practical exam</b>	<b>In-person education in classrooms includes a scientific lecture with images and</b>	Cardio-Vascular system: Comprehend the external and internal features of the first structure	<b>Student knowledge of the scientific material and awareness</b>	<b>4</b>	<b>20th</b>

	<b>videos of anatomy in 3D .</b>		<b>of scientific, mental, professional, applied and clinical skills</b>		
<b>discussion</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	of the heart and their implications. Identify and name the chambers of the heart, surfaces	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>21<sup>st</sup></b>
<b>Discussion questions</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	and borders of the heart, Identify the venae cavae, pulmonary trunk and aorta.	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>22nd</b>
<b>Written exam</b>	<b>As for the practical aspect, it will be in the lab ‘with</b>	Cardio- Vascular system: Mention the Internal features of the chambers of the heart, II	<b>Student knowledge of the scientific material</b>	<b>4</b>	<b>23rd</b>

	<b>virtual dissection in addition to models.</b>		<b>and awareness of scientific, mental, professional ‘applied and clinical skills</b>		
<b>Written exam</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	State the basic features of the blood supply and nerve supply of the heart State the basic	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>24th</b>
<b>Questions and discussion</b>	<b>As for the practical aspect, it will be in the lab ‘with virtual dissection in addition to models.</b>	arrangement of the pericardium,	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>25th</b>
<b>practical control</b>	<b>In-person education in classrooms</b>	Cardio-Vascular system: Identify the coronary arteries and	<b>Student knowledge of the</b>	<b>4</b>	<b>26th</b>

	<b>includes a scientific lecture with images and videos of anatomy in 3D .</b>	coronary sinus, Name the third	<b>scientific material and awareness of scientific, mental, professional ,applied and clinical skills</b>		
<b>Oral questions</b>	<b>As for the practical aspect, it will be in the lab ,with virtual dissection in addition to models.</b>	parts of the conducting system of heart, Mention the position and general distribution of	<b>Student knowledge of the scientific material and awareness of scientific , mental, professional , applied and clinical skills</b>	<b>4</b>	<b>27th</b>
<b>Written exam</b>	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	major arteries and major veins and the name of their main branches, Name the types of arteries	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ,applied and clinical skills</b>	<b>4</b>	<b>28th</b>
	<b>As for the</b>	and veins	<b>Student</b>	<b>4</b>	<b>29th</b>

	practical aspect, it will be in the lab ‘with virtual dissection in addition to models.		knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills		
	<b>In-person education in classrooms includes a scientific lecture with images and videos of anatomy in 3D .</b>	Lymphatic system: Comprehend the general and regional arrangements of the lymphatic IV	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>30th</b>

## 12.infrastructure

	<b>-1Required textbooks</b>
<b>. 1Human Anatomy for Students, Byas Deb Ghosh Professor of Anatomy Second Edition: 2013</b>  <b>2 .ATLAS OF FUNCTIONAL NEUROANATOMY By Walter J. HENDELMAN,2000</b>  <b>3 .Clinical Anatomy of the Spine, Spinal Cord, and ANS, Third Edition 2014, by Mosby</b>  <b>4 .Gray's Anatomy for Students, Third Edition</b>	<b>-2Main references (sources(</b>

<b>Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell, 2015 .</b> <b>5 .Human Anatomy Coloring Book (Dover Children's Science Books), 1982, by Margaret Matt (Author), Joe Ziemian (Author)</b>  <b>6. Atlas of Human Anatomy (Netter Basic Science) by Frank H. Netter,200 6</b>	
<b>Open</b>	<b>A -Recommended books and references ( scientific journals, reports, etc( .</b>
<b><u>Open</u></b>	<b>B - Electronic references, websites...</b>

<b>13. Curriculum Development Plan</b>
Developing educational content with the ability to delete, replace, and add, and reviewing the latest international references Using modern methods that suit the subject and students in some lectures Use of modern assessment methods Following the latest and most innovative teaching and learning methods . Benefit from the results of modern research in anatomy - Applying modern teaching strategies in biology .

Course description form



Knowledge of all types of nerve and muscle injuries and differential diagnosis of pathological conditions

Applying therapeutic exercises to patients according to the needs of each patient

Rehabilitating patients to return to normal life-

-Educational institution <sup>1</sup>	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code <sup>3</sup>	Physical therapy for musculoskeletal diseases 1
-Available attendance forms <sup>4</sup>	Official studying hours
4-Semester/year	<b>Second stage/first course</b>
-Number of study hours (total) <sup>5</sup>	90 hours
6-Date this description was prepared	2025/3/15
Course objectives	
1General: Identifying diseases affecting the musculoskeletal system.	
<b>.2Special:</b> <b>Learn about medical terms related to the musculoskeletal system.</b> <b>Learn about the causes of diseases affecting the musculoskeletal system and their associated symptoms.</b> <b>Learn about the field of medical rehabilitation and its role in treating movement disorders.</b> <b>Learn about therapeutic methods and medical rehabilitation for these conditions.</b>	

<p>A- Cognitive objectives</p> <p>Acquire scientific knowledge in determining the role of physical therapy and medical rehabilitation for motor disorders, and understand the symptoms associated with each medical condition, enabling the appropriate rehabilitation program to be determined.</p>
<p>The skills objectives of the course-</p> <p>Practical training on dealing with patients with neuromuscular injuries-</p> <p>Practical training to teach patients correct movement exercises-</p> <p>Implementing the motor rehabilitation program and the resulting rehabilitation of collateral injuries associated with the main problem</p>
<p><u>C-Teaching and learning methods</u></p> <p>Continuous daily tests-</p> <p>Exercises and activities in the classroom-</p> <p>Guiding students to the best websites and relevant scientific references-</p> <p>Practical training in hospitals-</p>
<p><u>Evaluation methods</u></p> <p>Participation in the classroom</p> <p>Evaluation activities and application of clinical tests</p>
<p><u>C- Emotional and value goals</u></p> <p>Developing the student's ability to work by completing assignments and submitting them on time</p> <p>Developing the student's ability to dialogue, research and discuss</p> <p>Developing the student's ability to develop an appropriate program for different medical conditions</p>
<p><u>Teaching and learning methods</u></p> <p>Conducting the lecture theoretically with the application of clinical and practical tests</p> <p>Conducting some daily tests and assigning students to weekly research sessions</p> <p>Allocate a percentage of the grade to daily assignments and tests</p>

### 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-structureofthecourse/syllabus

<b>The week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Name of the unit/topic</b>	<b>Teaching method</b>	<b>Evaluation method</b>
<b>1<sup>st</sup></b>	6		Medical terminology regarding musculoskeletal system, Principles and concepts of musculoskeletal evaluation and assessment	Theoretical + practical	Quiz + Discussion
<b>2<sup>nd</sup></b>	6		Patient history, Examination, principles of observation, vital signs, examination of specific joints, functional assessment	Theoretical + practical	Quiz + Discussion

3 <sup>rd</sup>	6		Musculoskeletal Signs and Symptoms: Monoarticular Joint Disease ‘ Polyarticular Joint Disease, Neck and Back Pain.	Theoretical +practical	Quiz+Discussion
4 <sup>th</sup>	6		Rheumatoid Arthritis: Definition, Epidemiology, Pathology, and Pathogenesis, Clinical and Laboratory Manifestations.	Theoretical +practical	Quiz+Discussion
5 <sup>th</sup>	6		Rheumatoid Arthritis: Assessment and Physical Therapy Management	Theoretical +practical	Quiz+Discussion
6 <sup>th</sup>	6		Ankylosing Spondylitis: Definition, Epidemiology, Pathology, Clinical presentation ‘  Assessment, Physical Therapy Management	Theoretical +practical	Quiz+Discussion
7 <sup>th</sup>	6		Psoriatic Arthritis: Definition, Epidemiology ‘ Pathology, Clinical presentation, Physical Therapy Management	Theoretical +practical	Quiz+Discussion

<b>8<sup>th</sup></b>	6		Reactive Arthritis: Definition, Epidemiology, Pathology, Clinical presentation, Physical  Therapy Management.	Theoretical +practical	Quiz+Discu ssion
<b>9<sup>th</sup></b>	6		Systemic lupus Erythematosus: Definition, Epidemiology, Pathology ‘Clinical  presentation, Physical Therapy Management	Theoretical +practical	Quiz+Discu ssion
<b>10<sup>th</sup></b>	6		Systemic Sclerosis: Definition, Epidemiology, Pathology, Clinical presentation, Physical  Therapy Management.	Theoretical +practical	Quiz+Discu ssion
<b>11<sup>th</sup></b>	6		Polymyositis and dermomyositis: Etiology, Pathology and Pathogenesis‘	Theoretical +practical	Quiz+Discu ssion
<b>12<sup>th</sup></b>	6		Polymyalgia Rheumatica: Definition, Etiology, Pathology, Clinical presentation, Physical  Therapy Managemen	Theoretical +practical	Quiz+Discu ssion

<b>13<sup>th</sup></b>	6		Gout: Definition, Epidemiology, Pathology, Clinical presentation , Physical Therapy  Management	Theoretical +practical	Quiz+Discu ssion
<b>14<sup>th</sup></b>	6		Pseudo gout: Definition, Epidemiology, Pathology, Clinical presentation, Physical Therapy  Management	Theoretical +practical	Quiz+Discu ssion
<b>15<sup>th</sup></b>	6		Revision	Theoretical +practical	Review/

<b>Infrastructure</b>	
-1-Required prescribed books	Various sources
2-Main references (sources)	<p>.1Primer on the Rheumatic Diseases / Edition 13 by John H. Klippel, John H. Stone, L eslie J .</p> <p>Crofford ,Patience H. White.</p> <p>.2Handbook of Physical Medicine and Rehabilitation Hardcover – October, 1982 by F.H .</p> <p>Krusen) Editor), etc. (Editor), F.J. Kottke (Editor.(</p> <p>.3Management of Common Musculoskeletal Disorder by: Hertling, D, and Kessler RM Physical</p> <p>Therapy Principles and Methods. 3rd ed. Philadelphia.PA: WB Sunders .</p>

	<p>.4Orthopaedic Physical Therapy By: Donatelli &amp;Michael J. Wooden 4th Edition .</p> <p>.5Physiotherapy in Orthopedics, A problem-solving approach By: Atkinson, Coutts &amp; Hassenkamp</p> <p>2nd Edition .</p> <p>.6Physical Rehabilitation's Assessments and Treatment". By Susan B,O'Sullivan&amp; Thomas J. Schmitz</p> <p>4 th edition .</p> <p>.7Tidy's Physiotherapy by Thomas A Skinner &amp;Piercy</p>
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

### Course development plan

Developing academic content with the ability to delete  
 replace, and add, and access to the latest international references  
 Using modern methods to suit the subject and students in some lectures  
 Using modern evaluation methods  
 Focus on clinical and field training in hospitals and medical centers  
 Supporting communication methods between female students and the rest of the  
 medical staff members supervising the patient's treatment

## Course description form

Knowledge of all types of nerve and muscle injuries and differential diagnosis of pathological conditions  
 Applying therapeutic exercises to patients according to the needs of each patient  
 Rehabilitating patients to return to normal life -

-Educational institution <sup>1</sup>	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code <sup>3</sup>	Physical therapy for musculoskeletal diseases 2
-Available attendance forms <sup>4</sup>	Official studying hours
4-Semester/year	<b>Second stage /second course</b>
-Number of study hours (total) <sup>5</sup>	hours 90
6-Date this description was prepared	2025/3/15
Course objectives	
:General <sup>1</sup> .Identifying diseases affecting the musculoskeletal system	
:Special .2 <b>.Learn about medical terms related to the musculoskeletal system</b> <b>Learn about the causes of diseases affecting the musculoskeletal system and</b> <b>.symptoms their associated</b> <b>Learn about the field of medical rehabilitation and its role in treating</b> <b>.movement disorders</b>	



<b>Learn about therapeutic methods and medical rehabilitation for these conditions</b>
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10

-Course outcomes and teaching, learning and evaluation methods

Cognitive objectives -A

Acquire scientific knowledge in determining the role of physical therapy and medical rehabilitation for motor disorders, and understand the symptoms associated with each medical condition, enabling the appropriate rehabilitation program to be determined

The skills objectives of the course-

- Practical training on dealing with patients with neuromuscular injuries
- Practical training to teach patients correct movement exercises
- Implementing the motor rehabilitation program and the resulting rehabilitation of collateral injuries associated with the main problem

C-Teaching and learning methods

- Continuous daily tests
- Exercises and activities in the classroom
- Guiding students to the best websites and relevant scientific references
- Practical training in hospitals

Evaluation methods

Participation in the classroom

Evaluation activities and application of clinical tests

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 develop an appropriate program for different medical conditions

Teaching and learning methods

<p>Conducting the lecture theoretically with the application of clinical and practical tests</p> <p>Conducting some daily tests and assigning students to weekly research sessions</p> <p>Allocate a percentage of the grade to daily assignments and tests</p>
<p><u>Evaluation methods</u></p> <p>Evaluating students' active participation during the lesson</p> <p>Commitment to the lecture date and not being absent</p> <p>Commitment to submitting assignments and research</p> <p>Semester and final exams express the extent of commitment and academic achievement</p>

<b><u>11-structureofthecourse/syllabus</u></b>					
<b>The week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Name of the unit/topic</b>	<b>Teaching method</b>	<b>Evaluation method</b>
<b>1<sup>st</sup></b>	5		Osteoarthritis: Definition, Epidemiology, Etiology, Primary and Secondary Pathophysiology	Theoretical + practical	Quiz + Discussion
<b>2<sup>nd</sup></b>	5		Knee, Hip, Ankle Osteoarthritis: Clinical presentation, Outcome Measures, Physical therapy management	Theoretical + practical	Quiz + Discussion

<b>3<sup>rd</sup></b>	5		Shoulder, Elbow, Hand Osteoarthritis: Clinical presentation, Outcome •Measures  Physical therapy management	Theoretical +practical	Quiz+Discussion
<b>4<sup>th</sup></b>	5		Osteoporosis: Definition, Epidemiology, Pathology and Pathophysiology, •Risk Factors  Classification	Theoretical +practical	Quiz+Discussion
<b>5<sup>th</sup></b>	5		Osteoporosis: Clinical presentation, Physical therapy management	Theoretical +practical	Quiz+Discussion
<b>6<sup>th</sup></b>	5		Sacrospina: Definition, Etiology, Pathology, Clinical presentation, Physical therapy management	Theoretical +practical	Quiz+Discussion
<b>7<sup>th</sup></b>	5		Osteonecrosis: Definition, Etiology, Pathology, Clinical presentation, Physical Therapy Management	Theoretical +practical	Quiz+Discussion

<b>8<sup>th</sup></b>	5		Septic Arthritis: Definition, Etiology, Pathology, Clinical presentation, Physical Therapy  .Management	Theoretical +practical	Quiz+Discu ssion
<b>9<sup>th</sup></b>	5		Brucellosis: Definition, Etiology, Pathology, Clinical presentation, Physical Therapy  Managemen	Theoretical +practical	Quiz+Discu ssion
<b>10<sup>th</sup></b>	5		Tuberculosis Arthritis: Definition, Etiology, Pathology, Clinical presentation, Physical  Therapy .Management	Theoretical +practical	Quiz+Discu ssion
<b>11<sup>th</sup></b>	5		Spondylodiscitis: Definition, Etiology, Pathology, Clinical presentation, Physical Therapy  Management	Theoretical +practical	Quiz+Discu ssion

<b>12<sup>th</sup></b>	5		Benign Joint Hypermobility –Syndrome, Ehlers Syndrome, Danlos ‘Marfan Syndrome  Osteogenesis Imperfecta: Definition, Etiology	Theoretical +practical	Quiz+Discussion
<b>13<sup>th</sup></b>	5		Paget’s Disease of Bone: Etiology, Pathology, Clinical presentation, Physical therapy management	Theoretical +practical	Quiz+Discussion
<b>14<sup>th</sup></b>	5		Neoplasms of the Joint (etiology, pathology, clinical presentation, Physical therapy .(management	Theoretical +practical	Quiz+Discussion
<b>15<sup>th</sup></b>	5		Revision	Theoretical +practical	Review/

<b>Infrastructure</b>	
-1-Required prescribed books	Various sources
2-Main references (sources)	<p>Primer on the Rheumatic Diseases / Edition .1 by John H. Klippel, John H. Stone, L eslie 13 .J</p> <p>.Crofford, Patience H. White</p> <p>Handbook of Physical Medicine and .2 October, 1982 by –Rehabilitation Hardcover .F.H</p>

	<p>ke Krusen (Editor), etc. (Editor), F.J. Kott (Editor)</p> <p>Management of Common Musculoskeletal .3 Disorder by: Hertling, D, and Kessler RM Physical</p> <p>Therapy Principles and Methods. 3rd ed. .Philadelphia.PA: WB Saunders</p> <p>Orthopaedic Physical Therapy By: Donatelli .4 .Michael J. Wooden 4th Edition &amp;</p> <p>-Physiotherapy in Orthopedics, A problem .5 solving approach By: Atkinson, Coutts &amp; Hassenkamp</p> <p>.nd Edition2</p> <p>Physical Rehabilitation's Assessments and .6 Treatment". By Susan B,O'Sullivan &amp;Thomas J. Schmitz</p> <p>.th edition4 ‘</p> <p>Tidy's Physiotherapy by Thomas A Skinner .7 .Piercy &amp;</p>
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

<u>Course development plan</u>	
<p>content with the ability to delete Developing academic replace, and add, and access to the latest international references ‘ Using modern methods to suit the subject and students in some lectures Using modern evaluation methods Focus on clinical and field training in hospitals and medical centers</p>	

Supporting communication methods between female students and the rest of the medical staff members supervising the patient's treatment

## Description Form

### Course Description

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

<b>Alzahraa University for women</b>	<b>9. Educational institution</b>
<b>College of Health and Medical Technologies - Department of Physiotherapy</b>	<b>10. Scientific Department / Center</b>
<b>General pathology</b>	<b>11. Course Name/Code</b>
<b>Official working hours</b>	<b>12. Available attendance forms</b>
<b>First semester / second academic year</b>	<b>13. semester/year</b>
<b>60hours</b>	<b>14. Number of study hours (total(</b>
<b>25/3/2025</b>	<b>15. Date this description was prepared</b>
<b>16. Course objectives</b> <b>.1 General</b> Knowing the causes of disease in general .	



## **.2Private:**

**.1Get to know disease and Reasons Occurrence Diseases**

**2.Inflammation acute and chronic ( signs Clinical ( healing Wounds and fractures.**

**.3Knowing the diseases that affect the different body systems.**

## **14.Course outcomes , teaching, learning and assessment methods**

### **ب- cognitive objectives**

**.1Identify the most important causes of infectious diseases.**

**2-Identify how the pathogen affects the occurrence of the disease.**

**3-Identify the most important secret signs.**

**4-Identifying methods of diagnosing and treating medical conditions.**

### **B - Course specific skill objectives.**

**- B1 - The student acquires knowledge of the different types of pathogens.**

**B2 - The student must have the ability to diagnose medical conditions.**

**B3 - The student's skill in using specific treatments for each medical condition**

**B -4 The student's skill in receiving and treating various medical cases.**

### **Teaching and learning methods**

**Student Groups - Project Team**

**Workshops**

**Scientific expeditions to monitor environmental pollution**

**Campus on Technologies Learning**

**Learning Application**

### **Evaluation methods**

**-Theoretical tests**

<p>-2Practical tests</p> <p>-3Reports and studies</p> <p>-4Daily exams</p>
<p>C- Emotional and value-based goals</p> <p>C-1 Observation and perception C-2 Analysis and interpretation C-3 Conclusion and evaluation C-4 Preparation and evaluation</p>
<p>Teaching and learning methods</p> <p>Lecture management theoretically with application of clinical and practical tests</p> <p>Conducting some daily tests and assigning students to weekly research sessions.</p> <p>Allocate a percentage of the grade to daily assignments and tests.</p>
<p>Evaluation methods</p> <p>Evaluating students' active participation during the lesson</p> <p>Commitment to the lecture time and not being absent</p> <p>Commitment to submit assignments and research</p> <p>Midterm and final exams reflect the extent of commitment and academic achievement.</p>
<p>D - General and transferable skills ( other skills related to employability and personal development.(</p> <p>Developing the student's ability to deal with different medical conditions</p> <p>Developing the student's ability to use scientific research methods</p> <p>Developing the student's ability to dialogue ‘discuss, and gain self-confidence</p> <p>For the student to develop himself after graduation</p> <p>The student should use the available means to increase his efficiency.</p>

<b>15. Course structure</b>					
<b>Evaluation method</b>	<b>Teaching method</b>	<b>Unit name/topic</b>	<b>Required learning outcomes</b>	<b>watch es</b>	<b>week</b>
<b>discussion</b>	<b>In-person education in classrooms includes a scientific lecture with pictures and videos related to pathology. These are either macroscopic or microscopic images. As for the practical aspect, it takes place in a virtual laboratory containing images of pathological and normal tissue.</b>	Introduction: Aims and objects of study of pathology. Definitions of health, first	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional, applied and clinical skills</b>	<b>4</b>	<b>1<sup>st</sup></b>
<b>discussion</b>	<b>In-person education in classrooms includes a scientific lecture with pictures and videos related to pathology.</b>	disease, causes of disease, Cell injury-causes, mechanism & toxic injuries with	<b>Student knowledge of the scientific material and awareness of scientific, mental, profession</b>	<b>4</b>	<b>2nd</b>

			<b>al ‘applied and clinical skills</b>		
<b>Questions and discussion</b>	<b>These are either macroscopic or microscopic images.</b>	special reference to Physical, Chemical, & ionizing radiation.	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>3rd</b>
<b>Review and discussion</b>	<b>As for the practical aspect, it takes place in a virtual laboratory containing images of pathological and normal tissue.</b>	The second : Inflammation & Repair ( Acute inflammation )- features, causes, vascular & cellular	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional, applied and clinical skills</b>	<b>4</b>	<b>4th</b>
<b>short exam</b>	<b>In-person education in classrooms includes a scientific lecture with pictures and videos related to</b>	events, morphologic variations, inflammatory cells & mediators.	<b>Student knowledge of the scientific material and awareness of scientific,</b>	<b>4</b>	<b>5th</b>

	<b>pathology.</b>		<b>mental, professional ,applied and clinical skills</b>		
<b>Oral test</b>	<b>These are either macroscopic or microscopic images.</b>	Third :Inflammation & Repair (Chronic inflammation)- causes, types, non-specific &	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ,applied and clinical skills</b>	<b>4</b>	<b>6th</b>
<b>Questions and discussion</b>	<b>As for the practical aspect, it takes place in a virtual laboratory containing images of pathological and normal tissue.</b>	granulomatous - with examples.	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional , applied and clinical skills</b>	<b>4</b>	<b>7th</b>
<b>Written exam</b>	<b>In-person education in classrooms includes a scientific lecture with pictures and</b>	Fourth Wound healing by primary & secondary union factors promoting & delaying healing	<b>Student knowledge of the scientific material and awareness</b>	<b>4</b>	<b>8th</b>

	<b>videos related to pathology.</b>		<b>of scientific, mental, professional ‘applied and clinical skills</b>		
<b>practical exam</b>	<b>These are either macroscopic or microscopic images.</b>	process. Healing at various sites- including bones, nerve & muscle, Regeneration &	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>9th</b>
<b>discussion</b>	<b>As for the practical aspect, it takes place in a virtual laboratory containing images of pathological and normal tissue.</b>	repair	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>10th</b>
<b>Discussion questions</b>	<b>In-person education in classrooms includes a scientific</b>	Circulatory disturbances Edema V - pathogenesis - types - transudates /exudates.	<b>Student knowledge of the scientific material</b>	<b>4</b>	<b>11th</b>

	lecture with pictures and videos related to pathology.		and awareness of scientific, mental, professional ‘applied and clinical skills		
<b>Reviews</b>	<b>These are either macroscopic or microscopic images.</b>	Chronic venous congestion- lung, liver, spleen, thrombosis - formation - fate -:- effects,	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>12th</b>
<b>practical exam</b>	<b>As for the practical aspect, it takes place in a virtual laboratory containing images of pathological and normal tissue.</b>	Embolism - types- clinical effects. Infarction - types - common sites, Shock -	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional ‘applied and clinical skills</b>	<b>4</b>	<b>13th</b>
<b>Questions and discussion</b>	<b>In-person education in classrooms</b>	Pathogenesis, types, morphological changes.	<b>Student knowledge of the</b>	<b>4</b>	<b>14th</b>

	includes a scientific lecture with pictures and videos related to pathology.		scientific material and awareness of scientific, mental, professional, applied and clinical skills		
<b>Review and discussion</b>	<b>These are either macroscopic or microscopic images.</b>	Neoplasia: General outline, classification, characteristics of Benign and VI	<b>Student knowledge of the scientific material and awareness of scientific, mental, professional, applied and clinical skills</b>	<b>4</b>	<b>15th</b>

#### 16.infrastructure

<b>Basic pathology</b>	<b>-1Required textbooks</b>
	<b>-2Main references (sources(</b>
<b>Open</b>	<b>A -Recommended books and references ( scientific journals, reports, etc( .</b>
<b><u>Open</u></b>	<b>B - Electronic references, websites...</b>

#### 17. Curriculum Development Plan



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

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

Use of modern assessment methods

Following the latest and most innovative teaching and learning methods .

Benefit from the results of modern research in pathology -

Course description form

Identify the therapeutic devices used in physical therapy

Reasons and prohibitions for using devices used in physical therapy

-Educational institution <sup>1</sup>	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code <sup>3</sup>	Therapeutic devices 1
-Available attendance forms <sup>4</sup>	Official studying hours
4-Semester/year	<b>The first course / the second stage of study"</b>
-Number of study hours (total) <sup>5</sup>	Approximately 90 hours
6-Date this description was prepared	2025/3/15
<p>.2Private:</p> <ul style="list-style-type: none"> <li>-1 Introducing the student to every electrical device used in physical therapy</li> <li>-2 Introducing the student to the principles of operation of each device</li> <li>-3 Knowing the physiological effects and therapeutic effects of each device</li> <li>-4 Reasons and prohibitions for using devices used in physical therapy</li> <li>-5 Knowledge of application methods and techniques for each physical therapy device</li> <li>-6 Knowing the standards of doses used, intensity, and repetition periods of treatment with physical therapy devices.</li> </ul>	

10-Course outcomes and teaching, learning and evaluation methods
<p>Cognitive objective A</p> <p>Gain applied knowledge of therapeutic devices</p> <p>Gain skill and experience in choosing the appropriate device for each disease</p> <p>Familiarize students with the dangers of using therapeutic devices for some medical conditions</p>

The skills objectives of the course B

Practical training on dealing with patients

Special practical training for each device used in terms of intensity and tension used

Implementing the rehabilitation program and how to apply each device safely

Teaching and learning methods

Continuous daily testing

Exercises and activities in the classroom

Guiding students to the best websites and relevant scientific references

Practical training in hospitals

Evaluation methods

- Participation in the classroom

Evaluating activities within scientific laboratories

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

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
1 <sup>st</sup>	6	خواص الموجات الكهرومغناطيسية	<b>Electromagnetic Waves:</b> Electromagnetic spectrum, physical properties of Electromagnetic radiations reflection, refraction, absorption, grothus law, cosine law inverse square law and its practical application	Theoretical +practical	Quiz+ Discussion
2 <sup>nd</sup>	6	طرق إدارة الألم	<b>Managing Pain with Therapeutic Modalities,</b> Types of Pain (Acute versus Chronic, referred, Radiating, Deep Somatic Pain), The Gate Control Theory of Pain	Theoretical +practical	Quiz+ Discussion
3 <sup>rd</sup>	6	خصائص الأشعة تحت الحمراء	<b>Infra-Red Radiation:</b> Production of infra-red rays, luminous and non-luminous generators, penetration, physiological effects and therapeutics uses of infra-red rays, indications and	Theoretical +practical	Quiz+ Discussion

			contraindications, dangers and precautions		
4 <sup>th</sup>	6	التأثيرات العلاجية للأشعة تحت الحمراء	<b>Infra-Red Radiation:</b> technique of application, duration and frequency of treatment	Theoretical +practical	Oral test
5 <sup>th</sup>	6	العلاج الحراري الرطب والاستخدامات العلاجية	<b>Moist Heat Therapy:</b> Hydro collator packs – in brief, Therapeutic uses, Indications & Contraindications	Theoretical +practical	Quiz+ Discussion
6 <sup>th</sup>	6	طريقة تطبيق العلاج بالحرارة الرطبة	<b>Moist Heat Therapy:</b> Methods of application, technique of application	Theoretical +practical	Short exam
7 <sup>th</sup>	6	العلاج بالشمع /تكوين الشمع/ الاستطبابات والموانع	<b>Wax Therapy:</b> Structure of the bath, composition of wax and mineral oils, Principle of Wax Therapy application – latent Heat, Composition of Wax Bath Therapy unit, Physiological & Therapeutic effects, Indications & Contraindication, Dangers.	Theoretical +practical	Quiz+ Discussion
8 <sup>th</sup>	6	طريقة تطبيق العلاج بالشمع	<b>Wax Therapy:</b> Methods of application of Wax, technique of application	Theoretical +practical	Oral test
9 <sup>th</sup>	6	حمام التباين	<b>Contrast Bath:</b>	Theoretical	Quiz+

		استخداماته/ العلاجية وموانع التطبيق	Therapeutic uses, Indications, Contraindications. Methods of applications, technique of application	+practical	Discussion
10 <sup>th</sup>	6	العلاج بالسوائل/ استخداماته طريقة/ التطبيق/ موانع الاستعمال	<b>Fluid therapy:</b> Construction, Therapeutic uses, Indications & Contraindications. <b>Fluid therapy:</b> Methods of applications, technique of application	Theoretical +practical	Quiz+ Discussion
11 <sup>th</sup>	6	خصائص الأشعة فوق البنفسجية/الم خاطر وموانع الاستخدام	<b>Ultra Violet</b> Production of U. V. R. physiological effects of U.V.R. (chemical reaction with skin). Structure of skin, penetration and absorption of U. V. R. Erythema, different Degrees of Erythema, specific condition like psoriasis, acne, alopecia, indolent wounds. Filters, Sensitizers. Dangers and contra-indication.	Theoretical +practical	Quiz+ Discussion
12 <sup>th</sup>	6	اختيار جرعة العلاج بالأشعة فوق البنفسجية	<b>Ultra Violet Radiation</b> Calculation of E1, E2, E3, E4 doses., technique to find out the test dose	Theoretical +practical	Oral test

			and its importance. Techniques of application of U. V. R. in local and general irradiation, Distance in UVR lamp		
13 <sup>th</sup>	6	خصائص الليزر / أنواعه /	<b>LASER:</b> Define, Types, Principles of Production. Production of LASER by various methods, Physiological & Therapeutic effects, Dangers and contraindications	Theoretical + practical	Short exam
14 <sup>th</sup>	6	طريقة تطبيق الليزر العلاجي	<b>LASER:</b> Methods of application, technique of application	Theoretical + practical	Quiz+ Discussion
15 <sup>th</sup>	6	مراجعة	<b>Revision</b>	Theoretical + practical	Review/

#### Infrastructure

-1-Required prescribed books	Various sources
2-Main references (sources)	Clayton's electrotherapy 8 TPhysical Agents: Theory and Practice8T Physical Agents in Rehabilitation:
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

#### Course development plan



- Developing academic content with the ability to delete  
•replace, and add, and access to the latest international references
- Using modern methods to suit the subject and students in some lectures
- Using modern evaluation methods

### Course description form

Knowledge of all types of nerve and muscle injuries and differential diagnosis of pathological conditions  
Applying therapeutic exercises to patients according to the needs of each patient  
Rehabilitating patients to return to normal life-

-Educational institution1	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code3	Physiotherapy for General Surgery
-Available attendance forms4	Official studying hours
4-Semester/year	Second stage / second course
-Number of study hours (total)5	approximately 70 hours
6-Date this description was prepared	2025/3/15
Course objectives	
Course Objectives .1General :To introduce the principles of general surgery, as well as to familiarize	

yourself with terminology and abbreviations.
.2Specialization: Identifying diseases and their primary and secondary clinical features Educating physical therapy students about various surgical conditions Clinically assessing various postoperative abdominal conditions
10-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives Acquire scientific knowledge in dealing with patients after various surgical procedures.
B - Course-specific skill objectives. For practical training in dealing with patients. Developing and implementing a rehabilitation program specific to each case.
<u>C-Teaching and learning methods</u>  Continuous daily tests Exercises and activities in the classroom Guiding students to the best websites and relevant scientific references Practical training in hospitals
<u>Evaluation methods</u>  Participation in the classroom Evaluation activities and application of clinical tests
<u>C- Emotional and value goals</u> 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 develop an appropriate program for different medical conditions
<u>Teaching and learning methods</u> 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-structureofthecourse/syllabus

The week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1 <sup>st</sup>	5		Introduction: Definition, Indications for surgery 'Methods of Surgery, Effect of Anesthesia'  Hemorrhage, Shock, Water & Electrolyte imbalance	Theoretical + practical	Quiz + Discussion
2 <sup>nd</sup>	5		Postoperative complications.	Theoretical + practical	Quiz + Discussion
3 <sup>rd</sup>	5		Infection and Inflammation – Definition, acute & chronic, Causes 'Signs and symptoms '  Resolution, Complications, Management.	Theoretical + practical	Quiz + Discussion

<b>4<sup>th</sup></b>	5		Wounds / ulcers - classification, healing process, staging, factors affecting healing	Theoretical +practical	Quiz+Discussion
<b>5<sup>th</sup></b>	5		Complications of immobilization	Theoretical +practical	Quiz+Discussion
<b>6<sup>th</sup></b>	5		Abdominal surgeries for gastrointestinal tract: Surgical anatomy , Approaches, Common abdominal procedures, Scar during surgical approach	Theoretical +practical	Quiz+Discussion
<b>7<sup>th</sup></b>	5		Genito-urinary system surgeries: Surgical anatomy , Approaches, Common procedures, Scar during surgical approach	Theoretical +practical	Quiz+Discussion

<b>8<sup>th</sup></b>	5		<p>during surgical approach, Scar management , Postoperative activity.</p> <p>الثامن</p> <p>Breast cancer and mastectomy : Epidemiology, Classification, Staging , Metastases, Clinical</p> <p>Presentation, Surgical managemen</p>	Theoretical +practical	Quiz+Discussion
<b>9<sup>th</sup></b>	5		<p>Mastectomy: Physical therapy management, Post-surgical physical activity</p>	Theoretical +practical	Quiz+Discussion
<b>10<sup>th</sup></b>	5		<p>Burn: Definition, Types, Classification, Local and systemic effects , Complications, Assessment ,</p> <p>Specific site of bur</p>	Theoretical +practical	Quiz+Discussion
<b>11<sup>th</sup></b>	5		<p>Burn: Immediate Care, Physical therapy management</p>	Theoretical +practical	Quiz+Discussion

<b>12<sup>th</sup></b>	5		Skin grafting: Indications, Types, Post-operative care of plastic surgery with specific role of  physiotherapy	Theoretical +practical	Quiz+Discu ssion
<b>13<sup>th</sup></b>	5		Tendon repair: Procedure, Recovery, Complications, Pre-operative and post-operative physical  therapy management	Theoretical +practical	Quiz+Discu ssion
<b>14<sup>th</sup></b>	5		Reconstructive surgery of peripheral nerves	Theoretical +practical	Quiz+Discu ssion
<b>15<sup>th</sup></b>	5		Revision	Theoretical +practical	Review/

Infrastructure	
-1-Required prescribed books	Various sources
2-Main references (sources)	<p>Baily and Love's .</p> <p>.2Text Book of Surgery by Ijaz Ahsan .</p> <p>.3Outline of Fractures by david hamblen, Hamish Simpsons .</p> <p>.4Outline of orthopedics. by david hamblen, Hamish Simpsons .</p> <p>.5Apley's systems of orthopedics and fractures by Louis Solomon 9th ed, publisher holder Arnold .</p> <p>.6General Surgical Operations – by Kirk / Williamson.</p>

.7Surgery by Nan.	
.8Chest Disease by Crofton and Douglas.	
.9Surgery – S. Basu	
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

#### Course development plan

Developing academic content with the ability to delete  
 ‘replace, and add, and access to the latest international references  
 Using modern methods to suit the subject and students in some lectures  
 Using modern evaluation methods  
 Focus on clinical and field training in hospitals and medical centers  
 Supporting communication methods between female students and the rest of the  
 medical staff members supervising the patient’s treatment

Course description form

Teacher name: Raghad ahmad

Course name: **Pharmacology**

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

-Educational institution <sup>1</sup>	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code <sup>3</sup>	<b>Pharmacology</b>
-Available attendance forms <sup>4</sup>	Official studying hours
4-Semester/year	<b>"Second stage of the second course"</b>
-Number of study hours (total) <sup>5</sup>	36hours
6-Date this description was prepared	2025/3/15/
Course objectives	
Course objectives.Public The student will be familiar with the medications used in the field of physical therapy .	
2. Special:  <b>An introduction to the biochemistry relevant to health and disease that forms the basis of modern medical practice, with an emphasis on the molecular level</b> <b>Scientific and commercial names of medicines in general</b> <b>Types of medications and methods of taking them</b> <b>Side effects of medications.</b> <b>Dosage and duration of administration</b> <b>Clinical cases in which the use of some medications is contraindicated</b>  .	

10-Course outcomes and teaching, learning and evaluation methods
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## A- Cognitive objectives

Identify the names of medicines, both commercial and scientific, and the necessity and cautions of their use

## 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

## -Emotional and value goalsC-

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

nConducting the lecture theoretically with the applicatio

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

<b><u>11- structure of the course/syllabus</u></b>					
<b>The week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Name of the unit/topic</b>	<b>Teaching method</b>	<b>Evaluation method</b>
<b>1<sup>st</sup></b>	<b>2</b>		Pharmacology – general principles of pharmacology – pharmacokinetics – pharmacodynamics – drug’s receptors – doses – therapeutic index.	Theoretical	Quiz+ Discussion
<b>2<sup>nd</sup></b>	<b>2</b>		Drugs acting on cardiovascular system: antianginal - antiarrhythmic agents – drugs used in treatment of congestive heart failure – vasodilators – antihypertensive - Hemopoietic agents – anticlotting agents – anti-haemorrhagic agents – antihyperlipidemic.	Theoretical	Quiz+ Discussion
<b>3<sup>rd</sup></b>	<b>2</b>		Drugs Affecting the Autonomic Nervous system cholinergic Agonist cholinergic Antagonists	Theoretical	Quiz+ Discussion
<b>4<sup>th</sup></b>	<b>2</b>		Drugs Affecting the central Nervous system - Anxiolytic and hypnotic	Theoretical	Quiz+ Discussion

			analgesic Drugs (Opioids) - Antiseizure Drugs – Drugs of Parkinson's Disease - Antipsychotic Agents - Antidepressant Agents - Muscle relaxants		
<b>5<sup>th</sup></b>	<b>2</b>		General anesthetics: (inhaled) and (Intravenous) - Local anesthesia	Theoretical	Quiz+ Discussion
<b>6<sup>th</sup></b>	<b>2</b>		Drugs affecting the endocrine system, hormones of the pituitary and thyroid - Insulin and oral hypoglycemic drugs	Theoretical	Quiz+ Discussion
<b>7<sup>th</sup></b>	<b>2</b>		Review	Theoretical	Quiz+ Discussion
<b>8<sup>th</sup></b>	<b>2</b>		Drugs acting on digestive system: antacids – gastric and peptic ulcer treatment – laxatives – purgatives - antidiarrheal agents – digestives – antiemetic – antifileutents	Theoretical	Quiz+ Discussion
<b>9<sup>th</sup></b>	<b>2</b>		Drugs acting on respiratory system: Antitussives – expectorants – bronchodilators – drugs used in	Theoretical	Quiz+ Discussion

			treatment of asthma		
<b>10<sup>th</sup></b>	<b>2</b>		Analgesics (non-opioids) – anti-inflammatory drugs – SAIDs and NSAIDs.	Theoretical	Quiz+ Discussion
<b>11<sup>th</sup></b>	<b>2</b>		Antibiotics and antibacterial agents – classification – spectrum – therapeutic uses – side effects. Antiseptic and disinfectants: types and uses	Theoretical	Quiz+ Discussion
<b>12<sup>th</sup></b>	<b>2</b>		Antibiotics and antibacterial agents – classification – spectrum – therapeutic uses – side effects. Antiseptic and disinfectants: types and uses	Theoretical	Quiz+ Discussion
<b>13<sup>th</sup></b>	<b>2</b>		Antiviral Agents - Antifungal - Antiparasitic Agents: Cancer Chemotherapy and immunopharmacology	Theoretical	Quiz+ Discussion
<b>14<sup>th</sup></b>	<b>2</b>		Toxicology: toxic doses – lethal doses – therapeutic index.	Theoretical	Quiz+ Discussion
<b>15<sup>th</sup></b>	<b>2</b>		Review	Theoretical	Review/
Infrastructure					

-1-Required prescribed books	Various sources
2-Main references (sources)	<b>1- Pharmacology for the Physical Therapist- Second Edition/2020</b>
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

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Course description form

Teacher name: Dr. Sara Ali Nasser

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

-Educational institution <sup>1</sup>	-Al-Zahraa Private University for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
-Course name/code <sup>3</sup>	orthopedics Physical therapy in
-Available attendance forms <sup>4</sup>	Official studying hours
4-Semester/year	First course /Second stage"
-Number of study hours (total) <sup>5</sup>	90 hours
6-Date this description was prepared	2025/3/15
Course objectives	
1.General: Knowing the types of fractures and some diseases that affect bones .	
2. Special: Learn about medical terminology related to fractures and some bone diseases Identify the causes of diseases that affect bones, signs and symptoms	

#### 10-Course outcomes and teaching, learning and evaluation methods

##### A- Cognitive objectives

General knowledge of various types of fractures and methods of their management and treatment

<p>B - The skills objectives of the course.</p> <p>Practical training on dealing with patient</p> <p>Training in fracture management and treatment</p>
<p><u>C-Teaching and learning methods</u></p> <p><u>There is a group of printed lectures where the scientific material is discussed and important notes are made</u></p> <p><u>Additional clarifications</u></p>
<p><u>Evaluation methods</u></p> <p><u>- Participation in the classroom</u></p> <p><u>Evaluating activities within scientific laboratories</u></p>
<p><b><u>Emotional and value goals</u></b></p> <p>Developing the student's ability to work by completing assignments and submitting them on time</p> <p>Developing the student's ability to dialogue, research and discuss</p>
<p><b><u>Teaching and learning methods</u></b></p> <p>Conducting the lecture theoretically with the application of clinical and practical tests</p> <p>Conducting some daily tests and assigning students to weekly research sessions</p> <p>Allocate a percentage of the grade to daily assignments and tests</p>
<p><u>Evaluation methods</u></p> <p>Evaluating students' active participation during the lesson</p> <p>-Commitment to the lecture date and not being absent</p> <p>- Commitment to submitting assignments and research</p> <p>Semester and final exams express the extent of commitment and academic achievement</p>



<b><u>11- structure of the course/syllabus</u></b>					
<b>The week</b>	<b>Hours</b>	<b>Required learning outcomes</b>	<b>Name of the unit/topic</b>	<b>Teaching method</b>	<b>Evaluation method</b>
<b>1<sup>st</sup></b>	<b>6</b>		Anatomy of bone: upper limb, lower limb, vertebrae, pelvis.	Theoretical +practical	Quiz+ Discussion
<b>2<sup>nd</sup></b>	<b>6</b>		Fractures	Theoretical +practical	Quiz+ Discussion
<b>3<sup>rd</sup></b>	<b>6</b>		Factors affecting healing	Theoretical +practical	Quiz+ Discussion
<b>4<sup>th</sup></b>	<b>6</b>		Outlines of treatment and Prognosis.	Theoretical +practical	Quiz+ Discussion
<b>5<sup>th</sup></b>	<b>6</b>		: Assessment, Physiotherapyfracturs	Theoretical +practical	Quiz+ Discussion
<b>6<sup>th</sup></b>	<b>6</b>		<b>Fractures : complications</b>	Theoretical +practical	Quiz+ Discussion
<b>7<sup>th</sup></b>	<b>6</b>		. specific fractures and dislocations.	Theoretical +practical	Quiz+ Discussion
<b>8<sup>th</sup></b>	<b>6</b>		total knee replacement: Definition الثامن , Indications, Complications, Pre-operative assessment, Pre-surgical Physiotherapy	Theoretical +practical	Quiz+ Discussion
<b>9<sup>th</sup></b>	<b>6</b>		total knee replacement: Post-surgical Physiotherapy, Outcome Measures.	Theoretical +practical	Quiz+ Discussion
<b>10<sup>th</sup></b>	<b>6</b>		<b>Total hip replacement</b>	Theoretical +practical	Quiz+ Discussion
<b>11<sup>th</sup></b>	<b>6</b>		<b>Total hip</b>	Theoretical	Quiz+

			<b>replacement</b> Post surgical physiotherapy	+practical	Discussion
<b>12<sup>th</sup></b>	<b>6</b>		shoulder instabilities: Definition, Etiology, Complications, Post-surgical Physiotherapy	Theoretical +practical	Quiz+ Discussion
<b>13<sup>th</sup></b>	<b>6</b>		shoulder joint: Total shoulder replacement and Hemi-replacement post-operative , Definition, Indications, Complications, physiotherapy management.	Theoretical +practical	Quiz+ Discussion
<b>14<sup>th</sup></b>	<b>6</b>		deformities of lower limb: Definition, Etiology, Classifications, Clinical presentation, Physical therapy Management	Theoretical +practical	Quiz+ Discussion
<b>15<sup>th</sup></b>	<b>6</b>		benign and malignant bone tumor: Definition, Etiology, Classifications, Clinical presentation, Physical therapy Management	Theoretical +practical	Review/
Infrastructure					

-1-Required prescribed books	Various sources
2-Main references (sources)	<p>Primer on the Rheumatic Diseases / Edition 13 by John H. Klippel, John H. Stone, L eslie J. Crofford, Patience H. White. 2. Handbook of Physical Medicine and Rehabilitation Hardcover – October, 1982 by F.H. Krusen (Editor), etc. (Editor), F.J. Kottke (Editor). 3. Management of Common Musculoskeletal Disorder by: Hertling, D, and Kessler RM Physical Therapy Principles and Methods. 3rd ed. Philadelphia.PA: WB Saunders. 4. Orthopaedic Physical Therapy By: Donatelli &amp; Michael J. Wooden 4th Edition. 5. Physiotherapy in Orthopedics, A problem-solving approach By: Atkinson, Coutts &amp; Hassenkamp 2nd Edition. 6. Physical Rehabilitation's Assessments and Treatment". By Susan B,O'Sullivan &amp; Thomas J. Schmitz , 4th edition. 7. Tidy's Physiotherapy by Thomas A Skinner &amp; Piercy</p>
3-Recommended books and references (scientific journals, reports,...)	Open
4-Electronic references, Internet sites	Open

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