Course description form

Teacher's Name : DR. Arwa Abdlnasser nattouf

Course Name : Physiotherapy for Musculoskeletal Diseases

Course Description

Study of the musculoskeletal system and related disorders and diseases, evaluate them in the laboratory, radiology and clinically and select appropriate rehabilitation and treatment .programs

1-Educational institution	Al-Zahraa University for women
2-Scientific Department/Center	College of Health and Medical Technologies/ Department of Physical Therapy
3-Course name/code	Physiotherapy for Musculoskeletal Diseases
4-Available attendance forms	Official studing hours
5-Semester/year	Chapter One / second Stage
6-Number of study hours (total)	About 90 hours
7-Date this description was prepared	27-11-2023

8-Course objectives
.General Objective: To know the types of diseases that affect the musculoskeletal system -:Special Objective 1. Familiarize yourself with medical terminology related to diseases of the musculoskeletal system. 2. Identify the pathogens of the musculoskeletal system, signs and symptoms. 3. Knowledge of the field of medical rehabilitation and its role in the treatment of diseases of the musculoskeletal system. 4. Familiarization with the therapeutic methods and rehabilitation program for diseases of the musculoskeletal system.

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives : Acquire the ability, skill and experience in distinguishing rheumatic diseases and how to deal with them - Acquire the ability to approach rheumatic disorders - Selection of appropriate therapeutic measures Selection of appropriate therapeutic measures.
B - The skills objectives of the course - Acquire the skills of approaching patients of the musculoskeletal system - Develop a rehabilitation program appropriate to the case..
-1 Developing and supporting the ability of students to perform the required duties on time -2 Developing and training students to deal with patients and their special circumstances -3 Encouraging students to discuss appropriate treatment programs with patients and their families

D - Transferable general and qualifying skills (other skills related to employability and personal development)

Developing the ability of students to deal with patients and their families and discuss and - - dialogue regarding their medical conditions

Developing the ability of students to communicate and dialogue with the rest of the medical - staff involved in the treatment of the patient

Developing the ability of students and their capabilities in radiological and laboratory - evaluation of patients

Teaching and learning methods : - Daily assessment in the form of rapid tests

Exercises, activities and discussions in the classroom -

Guiding students to the best scientific websites in the fields of joints and bone diseases and - the best practical applications in this field

Field training within centers and hospitals -

Evaluation methods: - Participation and interaction in the classroom

Evaluation of clinical training and rehabilitation of patients -

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	**6**	Evaluation of Patient	Medical terminology	theoretical Application	Questions & Discussion
2nd	**6**	Evaluation of Patient	Patient history, Examination	Theoretical with discussion	Review & Discuss
3rd	6	Evaluation of Musculoskeletal Signs and Symptoms	Musculoskeletal Signs and Symptoms	theoretical Application	Short exam
4th	6	Evaluation of Rheumatoid Arthritis	Rheumatoid Arthritis	discussion	Oral test
5th	6	Rheumatoid Arthritis rehabilitation	Rheumatoid Arthritis	theoretical	Questions & Discussion
6th	6	Ankylosing rehabilitation	Ankylosing Spondylitis		Questions & Discussion
7th	6	Rehabilitation of Psoriatic Arthritis	Psoriatic Arthritis	Practical, theoretical and discussion	Review & Discuss
8th	6	Evaluation and rehabilitation of	Reactive Arthritis	theoretical	Short exam

		Reactive Arthritis		Application	
9th	6	Evaluation and rehabilitation of SLE	Systemic lupus Erythematosus:	Theoretical with discussion	Oral test
10th	6	Evaluation and rehabilitation of Systemic Sclerosis	Systemic Sclerosis:	theoretical Application	Questions & Discussion
11th	6	Evaluation of Polymyositis and dermomyositis	Polymyositis and dermomyositis	discussion	Questions & Discussion
12th	6	Rehabilitation of Polymyalgia Rheumatica	Polymyalgia Rheumatica	theoretical	Questions & Discussion
13th	6	Rehabilitation of gout	Gout	theoretical Application	Review & Discuss
14th	6	Evaluation of pseudo gout	Pseudo gout	Theoretical with discussion	Short exam
15th	6		Revision	theoretical Application	Oral test

10- Infrastructures

A-Required prescribed books	The sources are diverse, extensive and specialized
1-Main references (sources)	Specialized references in rheumatology and physiotherapy
2-Recommended books and references (scientific journals, reports,...)	Davidson's Principles and practice of medicine" Guyton And Hall Robbins Basic Pathology (Robbins Pathologic) 10th Edition
B - Electronic references, Internet ...sites	MEDSCAPE UP TO DATE PUB MED

11- Course development plan
Developing the academic content with the possibility of deleting, replacement, adding and accessing the latest international references and technologies in the field of hearing and communication Using modern methods to suit the subject and students in some lectures Use of modern assessment methods Focus on clinical and field training in hospitals and medical centers

Sample of project discerption

Project discerption

Study the anatomical and disease with fractures with ability to read the Xray and know the physical rehabilitations .

1-University	***Alzehraa university***
2-Department	***Technical Department of/collage rehabilitation physical***
3-The project name	***Orthopedics Rehabilitation***
4-coarse	***Theoretical and practical lesson***
5-year study	***2nd stage***
6-Number of hours	***48***
7-Date of making project	***2023/12/1***
Objects: ***…. Study the anatomical and disease with fractures with ability to read the Xray and know the physical rehabilitations.***	

Course description form

Teacher name :Dr. morjan Hassan

Identify the therapeutic devices used in physical therapy Reasons and prohibitions for using devices used in physical therapy

1-Educational institution	Al-Zahraa Private University - for women
2-Scientific department/center	College of Health and Medical Technologies – Department of Physiotherapy
3-Course name/code	Therapeutic devices 1
4-Available attendance forms	Official studying hours
4-Semester/year	**The first course / the second "stage of study**
5-Number of study hours (total)	Approximately 90 hours
6-Date this description was prepared	2023/12/1
:Private.2 Introducing the student to every electrical device used in physical therapy -1 Introducing the student to the principles of operation of each device -2 Knowing the physiological effects and therapeutic effects of each device-3 Reasons and prohibitions for using devices used in physical therapy -4 Knowledge of application methods and techniques for each physical therapy device-5 Knowing the standards of doses used, intensity, and repetition periods of treatment -6 .with physical therapy devices	

10-Course outcomes and teaching, learning and evaluation methods
Cognitive objective A Gain applied knowledge of therapeutic devices Gain skill and experience in choosing the appropriate device for each disease Familiarize students with the dangers of using therapeutic devices for some medical conditions
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
1st	6	خواص الموجات الكهرومغناطيسية	**Electromagnetic Waves: 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
22nd	6	طرق إدارة الألم	**Managing Pain with Therapeutic Modalities,** Types of Pain (Acute versus Chronic, referred, Radiating, Deep Somatic Pain), The Gate Control Theory of Pain	Theoretical+ practical	Quiz+ Discussion
3rd	6	خصائص الأشعة تحت الحمراء	**Infra-Red Radiation**: Production of infra-red rays, luminous and non-luminous generators, penetration, physiological effects and therapeutics uses of infra-red rays, indications and contraindications, dangers and precautions	Theoretical+ practical	Quiz+ Discussion
4th	6	التأثيرات العلاجية للأشعة تحت الحمراء	**Infra-Red Radiation**: technique of application, duration and frequency of treatment	Theoretical+ practical	Oral test
5th	6	العلاج الحراري الرطب والاستخدامات العلاجية	**Moist Heat Therapy**: Hydro collator packs – in brief, Therapeutic uses, Indications & Contraindications	Theoretical+ practical	Quiz+ Discussion
6th	6	طريقة تطبيق العلاج بالحرارة	**Moist Heat Therapy**: Methods of application, technique	Theoretical+ practical	Short exam

		الرطبة	of application		
7th	**6**	العلاج بالشمع /تكوين الشمع/ الاستطبابات والموانع	**Wax Therapy:** 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
8th	**6**	طريقة تطبيق العلاج بالشمع	**Wax Therapy:** Methods of application of Wax, technique of application	Theoretical+ practical	Oral test
9th	**6**	حمام التباين /استخداماته العلاجية وموانع التطبيق	**Contrast Bath:** Therapeutic uses, Indications, Contraindications. Methods of applications, technique of application	Theoretical+ practical	Quiz+ Discussion
10th	**6**	العلاج بالسوائل/ استخداماته /طريقة التطبيق/ موانع الاستعمال	**Fluid therapy**: Construction, Therapeutic uses, Indications & Contraindications. **Fluid therapy**: Methods of applications, technique of application	Theoretical+ practical	Quiz+ Discussion
11th	**6**	خصائص الاشعة فوق البنفسجية/المخاطر وموانع الاستخدام	**Ultra Violet** 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
12th	**6**	اختيار جرعة العلاج بالأشعة فوق البنفسجية	**Ultra Violet Radiation** Calculation of E1, E2, E3, E4 doses., technique to find out the test dose and its importance. Techniques of application of U. V. R.	Theoretical+ practical	Oral test

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

Infrastructure	
1-Required prescribed books -	Various sources
2-Main references (sources)	Clayton's electrotherapy 8TPysical 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-