



Jerash University
Faculty of Applied Medical Sciences
Physical Therapy Department



Course Syllabus

Course title:	Electro and hydrotherapy-practical	Course No:	1201221
Course level:	First year	Course prerequisite (s) and/or co-requisite (s):	Electro and hydrotherapy (1201220)/Obligatory
Lecture time:	S- (8:00-10:00)	Credit hours:	1 Hours

Academic Staff Specifics

<u>Name</u>	<u>Rank</u>	<u>Office Number and location</u>	<u>Office hours</u>	<u>E.mail address</u>
Dr: Rashed ALadwan	Assistant professor	Physical Therapy Department	12:00-13:00	king_20081979@yahoo.com

Course Description

The course description the course is designed to provide the student with practical application of electrotherapy modalities of physical therapy. The students apply the theoretical knowledge they have learned in under supervision and safe environment.

Course Objectives

This course aims to enable students to recognize the modalities of electrotherapy. By the end of this course the student should have a clear understanding of indication, contraindication, precaution and side effects of these modalities. Also, students should have the ability to use and practically applied these modalities in safe environment in the university laboratories.

Learning Outcome

Cognitive skills (thinking and analysis):

Interactive learning by participating the student into the lectures content.

Communication skills (personal and academic):

Review concept at office hours

Practical and subject specific skills (Transferable Skills):.

Doing homework and simple reports.

Course Outline and Time schedule

Week	Course Outline
First week	Introduction to the physical modalities Thermotherapy
2 nd week	Deep thermal modalities Cryotherapy – ice massage
3 rd week	Basic terminology Electrical circuits in the human body
4 th week	Radiation
5 th week	Electrical stimulation
6 th week	Therapeutic ultrasound
7 th week	Electrical stimulation
8 th week	Transcutaneous Electrical Nerve Stimulation
9 th week	Electrodes Electrode preparation
10 th week	Magnetic Field therapy Effects on organs and systems Application norms
11 th week	Hydro therapy
12 th week	Buoyancy
13 th week	Additional equipment
14 th week	Aquatic and hydrotherapy

Presentation methods and techniques

Methods of teaching varied according to the type of text, student and situation. The following techniques are usually used:

- ❖ Practical experimental work, tutorials, seminars Online
- ❖ Cooperative learning.
- ❖ Learning by activities.
- ❖ Connecting students with different sources of information

Sources of information and Instructional Aids

- ❖ Computer ... power point ...etc.
- ❖ Transparencies
- ❖ Distance learning
- ❖ Library sources

Assessment Strategy and its tools

The assigned syllabus is assessed and evaluated through: feedback and the skills that are acquired by the students

The tools:

- 1- Diagnostic tests to identify the students level and areas of weakness
- 2- Formal (stage) evaluation
 - a) Mid-term exam
 - b) Class Participation
 - c) Activity file
 - d) Final exam

Tool & Evaluation

The following table clarifies the organization of the assessment schedule:

Test	Grade
Mid-term Exam	30
Activities & Participation	30
Final Exam	40
Total	100

Activities and Instructional Assignment

Practical assignments to achieve the syllabus objectives.

Regulations to maintain the teaching-Learning Process in the Lecture:

- 1- Regular attendance online live lectures.
- 2- Respect of commencement and ending of the lecture time.
- 3- Positive relationship between student and teacher.
- 4- Commitment to present assignments on time.
- 5- High commitment during the lecture to avoid any kind of disturbance and distortion.
- 6- High sense of trust and sincerity when referring to any piece of information and to mention the source.
- 7- The student who absents himself should submit an accepted excuse.
- 8- University relevant regulations should be applied in case the student's behavior is not accepted.
- 9- Allowed Absence percentages is (not exceed 15 %.).

References

- ❖ Handbook of electrotherapy for practitioners and student by Burton Baker Grover, 2010
- ❖ Physical Therapy Clinical Handbook for PTAs, 3rd Ed., 2018
- ❖ Text book of electrotherapy by Jagmohan Singh 2017
- ❖ Textbook of Electrotherapy 3rd Ed., 2018