TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of PHYSIOTHERAPHY,
2023-2024 Spring
Course Information for PT 210 Physiotherapy Modalities II

Course Name:	Physiotherapy Modalities II

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
PT 210	4	2	2	3	5

Name of Lecturer(s):	Runak Tahr Ali
Teaching Assistant:	Assistant Prof. Dr.Ronak T.Ali
Course Language:	English
Course Type:	Main
Office Hours	Wendsday 1 hour
Contact Email:	runak.tahr@tiu.edu.iq Tel:07504964534
Teacher's academic profile:	PhD
Course Objectives:	1. This course aims at acquainting students with the clinical relevance of electrotherapy modalities and use of low and high frequency currents in various conditions. 2.This course will also give knowledge about appropriate clinical doses and technique of application for the use of various electrotherapy modalities. 3. It will prepare students to identify any contraindications and to apply any safety precautions necessary for the treatment to be effective, efficient and safe.
Course Description (Course overview):	This course deals with the physical principles associated with electricity and methods used in physical therapy. The course contains detailed on types of electrical currents used to raise electrical nerve, muscle and physiological effects an therapeutic uses in addition to the risks and preventive measures to be used, and students are trained on the how to use electrical appliances for each type of electric waves used in the treatment such as interferential, faradic and galvanic currents.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	28/1-1/2/2024	Hydrotherapy: The Use of Water as a Therapeutic Agent
2	2	4-8/2/2024	Assessment of Effectiveness and Expected Outcomes for Hydrotherapy
3	2	11-15/2/2024	Electromagnetic Waves—Laser,
4	2	18-22/2/2024	Diathermy
5	2	25-29/2/2024	Pulsed Electromagnetic Fields
6	2	3-7/3/2024	Spinal Traction
7	2	24-28/3/2024	Intermittent Pneumatic Compression I
8	2	31/3-4/4/2024	Clinical Application- Intermittent Pneumatic Compression II
9	2	14-18/4/2024	Midterm Exam
10	2	21-25/4/2024	Foundations of Clinical Electrotherapy
11	2	28/4-2/5/2024	Clinical Electrical Stimulation: Application and Techniques
12	2	5-9/5/2024	Mechanisms of Pain and Use of Therapeutic Modalities I
13	2	12-16/5/2024	Mechanisms of Pain and Use of Therapeutic Modalities II
14	2	19-23/5/2024	Therapeutic Modalities for Improving Range of Motion I
15	2	26-30/5/2024	Therapeutic Modalities for Improving Range of Motion II

16	2	2-6/6/2024	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

1	be able to Appraise the role of therapeutic modalities in rehabilitation.
2	Comprehend the indications and contra-indications to electrotherapy modalitis.
3	be able to formulate the most appropriate electrotherapy modality to use in a clinical setting
4	understand the theory underpinning electrotherapy modalities
5	be able to describe the basic of Physics which is used in Electrotherapy Modalities and explain the electrical supply of these modalities and understand the working of different devices used in Electrotherapy Modalities like Condenser, Milli ammeter, Voltmeter, Transformer

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

	Program Learning Outcomes	**Cont.**
1	1. Demonstrate knowledge of the underlying concepts and principles associated within the context of health.	I
2	Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data to develop lines of argument and make sound judgments in accordance with basic theories and concepts relevant to health.	P
3	3. Evaluate the appropriateness of different approaches to solving problems related to health.	P
4	4. Asses the qualities and transferable skills necessary for employment requiring the exercise of some personal responsibility.	A
5	5. Apply knowledge and critical understanding of the principles of health and the way in which these have developed	P
6	Demonstrate an ability to apply underlying concepts and principles outside the context in which they were first studied.	A
7	Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis	A
8	8. Work as a member of the multi-disciplinary team within diverse settings providing an inter-agency and cross-boundary approach to person-centered health and social care.	P
9	9. Demonstrate personal transferable key skills in problem solving, critical thinking, written and verbal communication, team working, professional autonomy.	A
10	Demonstrate knowledge and understanding of human function and dysfunction, the theory and practice of physiotherapy.	P
11	Develop clinical reasoning and problem-solving skills to assess problems and plan interventions to meet service user and career goals.	A
12	Apply therapeutic skills in response to the physical, psychological, social and cultural needs of individuals or groups using critical evaluation of the available evidence	P

Prerequisites (Course Reading List and References):	1. Giancoli DC. Physics: Principles With Applications. 7th ed. Upper Saddle River, NJ: Prentice Hall; 2014. 2. Kisner C, Colby LA. Therapeutic Exercise: Foundations and Techniques. 5th ed. Philadelphia: F.A. Davis Co.; 2007, pp 274-2 3. Cameron, M. H. (2018). Physical agents in rehabilitation: from research to practice. St. Louis, Mo.: Elsevier/Saunders.
Student's obligation (Special Requirements):	1- Communication Skill 2- Participant 3. social responsibility

Weekly Laboratory/Practice Plan:

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	16	2	2-6/6/2024	Final Exam

Course Book/Textbook:	1. MODALITIES FOR THERAPEUTIC INTERVENTION, Sixth Edition, James W. Bellew, PT, EdD, 2016
Other Course Materials/References:	Cheatle MD. Assessing suicide risk in patients with chronic pain and depression. J Fam Pract. 2014;63(6 Suppl):S6-S11.
Teaching Methods (Forms of Teaching):	Lectures, Practical sessions, Presentation, Assignments, Case studies, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Participation	1	5
Quiz	1	10
Homework	1	5
Midterm Exam	1	30
Laboratory	1	10
Final Exam	1	40
Total		**100**

Examinations: True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	2	32
Practical Hours	16	2	16
Final Exam	1		
Participation	1		0
Quiz	1		0
Homework	1		0
Midterm Exam	1		0
Laboratory	1		0

Total Workload	**48**
ECTS Credit (Total workload/25)	**2**

Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:
Lecturer	Head of Department	Dean