# TISHK INTERNATIONAL UNIVERSITY FACULTY OF APPLIED SCIENCE Department of PHYSIOTHERAPHY, 2023-2024 Spring

## 2023-2024 Spring Course Information for PT 210 Physiotherapy Modalities II

PT 210	Co	de	Regu	ılar Semeste	r	Theoretical	Practical	Credits	ECTS		
Teaching Assistant: Course Language: English Course Type: Main Office Hours Wendsday 1 hour runak tahr@tiu.edu.iq Tel:07504964534  Teacher's academic profile: 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 This course deals with the physical principles associated with electricity and methods us raise electrical appliances for each type of electric waves used in the treatment sused to raise electrical appliances for each type of electric waves used in the treatment such as interferential, faradic and galvanic currents.  COURSE CONTENT  COURSE CONTENT  Topic 1 2 28/1-11/2/2024 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 Clinical Electrical Stimulation: Application and Techniques 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	PT 2	210		4		2	2	3	5		
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Course Type:   Main	7	eachin	g Assistant:								
Teacher's academic profile:  Course Objectives:       PhD		Course	Language:	English							
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Therapeutic Modalities for Improving Range of Motion II

15

26-30/5/2024

#### 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

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3-7/3/2024

**Spinal Traction** 

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, Milliammeter, Voltmeter, Transformer

#### 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. Demonstrate knowledge of the underlying concepts and principles associated within the context of 1 health. 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 Ρ 2 to health. Ρ 3 3. Evaluate the appropriateness of different approaches to solving problems related to health. 4. Asses the qualities and transferable skills necessary for employment requiring the exercise of some Α personal responsibility. 5. Apply knowledge and critical understanding of the principles of health and the way in which these 5 have developed Demonstrate an ability to apply underlying concepts and principles outside the context in which they 6 Α were first studied. Use a range of established techniques to initiate and undertake critical analysis of information, and to 7 Α propose solutions to problems arising from that analysis 8. Work as a member of the multi-disciplinary team within diverse settings providing an inter-agency 8 and cross-boundary approach to person-centered health and social care. 9. Demonstrate personal transferable key skills in problem solving, critical thinking, written and verbal communication, team working, professional autonomy. Demonstrate knowledge and understanding of human function and dysfunction, the theory and 10 practice of physiotherapy. Develop clinical reasoning and problem-solving skills to assess problems and plan interventions to 11 meet service user and career goals. Apply therapeutic skills in response to the physical, psychological, social and cultural needs of Ρ 12 individuals or groups using critical evaluation of the available evidence Prerequisites (Course 1. Giancoli DC. Physics: Principles With Applications. 7th ed. Upper Saddle River, NJ: Reading List and Prentice Hall; 2014. 2. Kisner C, Colby LA. Therapeutic Exercise: Foundations and References): 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 1- Communication Skill 2- Participant 3. social responsibility (Special Requirements): Weekly Week Hour **Topics** Date Laboratory/Practice Plan: Hydrotherapy: The Use of Water as a Therapeutic 2 28/1-1/2/2024 1 Agent Assessment of Effectiveness and Expected 2 2 4-8/2/2024 Outcomes for Hydrotherap 3 2 11-15/2/2024 Electromagnetic Waves—Laser, 2 4 18-22/2/2024 Diathermy 5 2 25-29/2/2024 Pulsed Electromagnetic Fields

	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 Book/Textbook:		DALITIE D, 2016		TIC INTERVENTION, Sixth Edition, James W. Bellew,		
	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, , ,						
			COURCE EVALUATI	ON ODITEDIA		

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				

 $\textbf{Examinations:}\ \, \textbf{True-False}, \, \textbf{Fill}\ \, \textbf{in the Blanks}, \, \textbf{Multiple Choices}, \, \textbf{Short Answers}, \, \textbf{Matching,} \, , \, ,$ 

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:LecturerHead of DepartmentDean