



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Physical Therapy Department**

P.T356 Pt In Neurology (2) Lab - JNQF Level: 7
Second Semester 2023-2024

Course Catalog
1 Credit Hours. Case studies will be provided for students to discuss and practice the related physical therapy assessment and intervention techniques for neurological conditions and diseases.
<b>Teaching Method:</b> On Campus

Text Book	
<b>Title</b>	Neurologic Interventions for Physical Therapy
<b>Author(s)</b>	Suzanne 'Tink' Martin and Mary Kessler
<b>Edition</b>	4th Edition
<b>Short Name</b>	Ref 1
<b>Other Information</b>	

Instructor	
<b>Name</b>	Dr. Mohammad Alwardat
<b>Office Location</b>	Ground Floor L1-10
<b>Office Hours</b>	
<b>Email</b>	msalwardat@just.edu.jo

Class Schedule & Room
<p>Section 1: Lecture Time: Sun : 09:30 - 11:30 Room: LAB</p> <p>Section 2: Lecture Time: Sun : 11:30 - 13:30 Room: LAB</p> <p>Section 3: Lecture Time: Tue : 09:30 - 11:30 Room: LAB</p> <p>Section 4: Lecture Time: Tue : 11:30 - 13:30 Room: LAB</p> <p>Section 5: Lecture Time: Thu : 09:30 - 11:30 Room: LAB</p>

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Body mechanics: positioning, moving and transfers	From Ref 1
Weeks 2, 3, 4	Stroke assessment and intervention	From Ref 1
Week 5	Traumatic Brain Injury assessment and intervention	From Ref 1
Week 6	Parkinson disease assessment and intervention	From Ref 1
Weeks 7, 8, 9	Spinal Cord Injury assessment and intervention	From Ref 1
Weeks 10, 11	Multiple sclerosis assessment and intervention	From Ref 1
Week 12	Cerebellar and Vestibular Disorders assessment and intervention	From Ref 1
Week 13	Guillain-Barre and Postpolio Syndromes assessment and intervention	From Ref 1

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
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Recall the key assessment techniques and intervention strategies specific to stroke, traumatic brain injury, Parkinson's disease, spinal cord injury, multiple sclerosis, cerebellar disorders, vestibular disorders, Guillain-Barre syndrome, and postpolio syndrome. [1PLO1 -K1] [1L7K1]	20%	
Demonstrate understanding of the underlying pathophysiology and clinical manifestations associated with neurological conditions such as stroke, traumatic brain injury, Parkinson's disease, spinal cord injury, multiple sclerosis, cerebellar disorders, vestibular disorders, Guillain-Barre Syndrome, and Postpolio Syndrome. [1PLO1 -K1] [1L7K1]	20%	
Apply appropriate physical therapy assessment methods and intervention techniques to individuals with neurological conditions, including stroke, traumatic brain injury, Parkinson's disease, spinal cord injury, multiple sclerosis, cerebellar disorders, vestibular disorders, Guillain-Barre Syndrome, and Postpolio Syndrome. [1PLO3-K3] [1L7S1]	20%	
Analyze case studies and clinical scenarios to identify relevant impairments, functional limitations, and environmental factors affecting patients with neurological disorders, and propose evidence-based physical therapy interventions accordingly. [1PLO4-K4] [1L7C2]	10%	
Evaluate the effectiveness of various physical therapy assessment and intervention approaches for neurological conditions, considering patient-centered outcomes, clinical guidelines, and research evidence. [1PLO7-S3] [1L7S2]	15%	
Synthesize information from literature, clinical experiences, and case studies to develop comprehensive and individualized physical therapy plans for patients with neurological conditions, integrating assessment findings, patient goals, and evidence-based interventions to optimize functional outcomes and quality of life.	15%	

Relationship to Program Student Outcomes (Out of 100%)															
PLO1 -K1	PLO2- K2	PLO3- K3	PLO4- K4	PLO5- S1	PLO6- S2	PLO7- S3	PLO8- C1	PLO9- C2	PLO10- C3	MS_PLO1_K1	MS_PLO2_K2	MS_PLO3_K3	MS_PLO4_S1	MS_PLO5_S2	MS_PLO6_C1
40		20	10			15									

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C2
40	20	15	10

Policy	
Attendance	Students are expected to attend more than 90% of the laboratories. All absences will be entered electronically into the University site If the absence is more than 10%, the student will be banned from the course after electronic notification from the university through student e-mail.
Expected workload	Students are expected to take every effort to ensure satisfactory learning of the material given.
Feedback	Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming, then the issue should be brought to the attention of the department chair and, if still unresolved, to the dean. Questions about the material covered in the laboratories and notes on the content of the course can also be sent to msalwardat@just.edu.jo.

Date Printed: 2024-02-25