



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

P.T353 Pt In Neurology (1) Lab - JNQF Level: 7

First Semester 2023-2024

Course Catalog

1 Credit Hours. Students will practice the physical therapy assessment and intervention techniques for neurological conditions and diseases.

Text Book

Title	Neurologic Interventions for Physical Therapy
Author(s)	Suzanne 'Tink' Martin and Mary Kessler
Edition	4th Edition
Short Name	Ref 1
Other Information	2020

Instructor

Name	Dr. Mohammad Alwardat
Office Location	Ground Floor L1-10
Office Hours	Sun : 09:30 - 11:00 Mon : 09:00 - 10:30 Tue : 09:30 - 11:30 Wed : 09:00 - 10:30 Thu : 09:30 - 11:00
Email	msalwardat@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Mon : 11:30 - 13:30
Room: LAB

Section 2:
Lecture Time: Mon : 13:30 - 15:30
Room: LAB

Section 3:
Lecture Time: Wed : 11:30 - 13:30
Room: LAB

Section 4:
Lecture Time: Wed : 13:30 - 15:30
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Orientation	From Ref 1
Week 3	Cranial nerves assessment	From Ref 1
Week 4	Sensory assessment	From Ref 1
Week 5	Muscle Tone assessment	From Ref 1
Week 6	Muscle Strength assessment	From Ref 1
Week 7	Reflexes assessment	From Ref 1
Weeks 8, 9	Balance assessment	From Ref 1
Week 10	Coordination assessment	From Ref 1
Weeks 11, 12, 13	Gait assessment	From Ref 1
Week 14	Posture assessment	From Ref 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Perform a Comprehensive Neurological Assessment: Demonstrate the ability to conduct a thorough neurological examination, encompassing sensory, motor, cranial nerve, and reflex assessments. [10PLO1, 20PLO7] [10L7K1, 20L7S3]	30%	Midterm practical exam, Activities (Case Studies, Homework & assignments, and Laboratory examinations)
Interpret Clinical Findings: Interpret the clinical significance of neurological examination findings, including identifying abnormalities and their potential implications. [10PLO7, 10PLO8] [10L7K1, 10L7S1]	20%	Midterm practical exam, Activities (Case Studies, Homework & assignments, and Laboratory examinations)

Differentiate Between Normal and Abnormal Responses: Discriminate between normal and abnormal neurological responses and articulate these distinctions effectively. [5PLO5, 10PLO6] [5L7K1, 10L7C2]	15%	Midterm practical exam, Activities (Case Studies, Homework & assignments, and Laboratory examinations)
Conduct Cranial Nerve Evaluations: Proficiently assess cranial nerve function, including the optic, oculomotor, trigeminal, facial, and other cranial nerves. [5PLO7] [5L7S3]	5%	Midterm practical exam, Activities (Case Studies, Homework & assignments, and Laboratory examinations)
Evaluate Motor Function: Skillfully assess motor strength, coordination, and tone in both upper and lower extremities. [5PLO7] [5L7S3]	5%	Midterm practical exam, Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam
Assess Sensory Function: Accurately evaluate sensory modalities, including touch, pain, temperature, proprioception, and vibration. [5PLO7] [5L7S3]	5%	Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam
Perform Reflex Testing: Execute reflex testing, including deep tendon reflexes (e.g., patellar, biceps), and interpret the results. [5PLO7] [5L7S3]	5%	Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam
Document Examination Findings: Demonstrate proficiency in documenting neurological examination findings accurately and comprehensively. [5PLO3] [5L7S3]	5%	Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam
Engage in Critical Thinking: Develop critical thinking skills to analyze complex neurological cases and recommend appropriate diagnostic tests or interventions. [5PLO5] [5L7C2]	5%	Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam, assessment
Ensure Patient Safety: Prioritize patient safety throughout the examination process, including proper positioning, infection control, and patient comfort. [5PLO2] [5L7C3]	5%	Activities (Case Studies, Homework & assignments, and Laboratory examinations), Final practical exam, assessment

Relationship to Program Student Outcomes (Out of 100%)

PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
10	5	5		10	10	50	10		

Relationship to NQF Outcomes (Out of 100%)

L7K1	L7S1	L7S3	L7C2	L7C3
25	10	45	15	5

Evaluation

Assessment Tool	Weight
Midterm practical exam	30%
Activities (Case Studies, Homework & assignments, and Laboratory examinations)	30%

Final practical exam	30%
assessment	10%

Policy	
Attendance	? Students are expected to attend all more than 90% of lectures. ? All absences will be entered electronically into the University site ? If absence is more than 10% 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 lecture, and notes on the content of the course can be also sent to my e-mail address above.

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