



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

P.T226 Neuroscience (1) - JNQF Level: 7

First Semester 2024-2025

**Course Catalog**

3 Credit Hours. This course provides students with a comprehensive overview of the field of neuroscience, with a focus on neuroanatomy, that will serve as a solid foundation for future courses.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	Clinical Neuroanatomy
<b>Author(s)</b>	Stephen Waxman
<b>Edition</b>	28th Edition
<b>Short Name</b>	Ref#1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Neuroanatomy through clinical case	Hal blumenfeld	2nd Edition	

**Instructor**

Name	<b>Dr. Mohammad Etoom</b>
Office Location	-
Office Hours	
Email	msetoom@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Tue : 14:30 - 15:30

Room: M4203

**Tentative List of Topics Covered**

<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction to Brain Anatomy	From <b>Ref#1</b>
Week 2	Cerebrum gross anatomy	From <b>Ref#1</b>
Weeks 3, 4	Functional areas of the cortex	From <b>Ref#1</b> , From <b>Ref#2</b>
Week 5	Subcortical deep structures	From <b>Ref#1</b> , From <b>Ref#2</b>
Week 6	Meninges, and Ventricles	From <b>Ref#1</b>
Week 7	Brain Vascularization and Neurotransmitters	From <b>Ref#2</b>
Week 8	Brain Stem	From <b>Ref#1</b>
Week 9	Cerebellum	From <b>Ref#1</b> , From <b>Ref#2</b>
Week 10	Cranial Nerve	From <b>Ref#2</b>
Weeks 11, 12	Spinal Cord gross anatomy	From <b>Ref#1</b>
Week 13	Peripheral Nerve Anatomy	From <b>Ref#1</b>
Weeks 14, 15	Autonomic Nervous system	From <b>Ref#1</b>

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Describe the major organization of the nervous system, anatomical terms and planes of section. [1PLO1 -K1] [1L7K1]	5%	
Describe the anatomy of the brain and spinal cord and identify their major external and internal structures [1PLO1 -K1] [1L7K1, 1L7S2]	30%	
Describe the anatomy of the brainstem [1PLO1 -K1] [1L7K1]	10%	
Define the name and function of the peripheral and cranial nerves [1PLO1 -K1] [1L7K1]	15%	
Define major ascending and descending spinal cord pathways [1PLO1 -K1] [1L7K1]	5%	
Define the function of autonomic nervous system [1PLO1 -K1] [1L7K1]	10%	

Define the major higher cerebral order functions such as language, visual processing, memory, awareness and alertness [1PLO1 -K1][1L7K1, 1L7S2]	20%	
Apply Neuroanatomy principles in understanding of neurological clinical situations	5%	

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
95									

Relationship to NQF Outcomes (Out of 100%)	
L7K1	L7S2
70	25

Evaluation	
Assessment Tool	Weight
Midterm Exam	30%
Final Exam	40%

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