



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

O.T355 Neuroscience For Rehabilitation - JNQF Level: 7

First Semester 2023-2024

Course Catalog

2 Credit Hours. This course lists the most common neurological conditions and diagnoses that require rehabilitation services. This course emphasizes the pathology, causes, differential diagnosis of these conditions, and basic medical management and the role of rehabilitation in treating these conditions. Also, course details the major neurological examination and basic neurological rehabilitation principles used with these conditions.

Teaching Method: On Campus

Text Book

Title	Clinical Neuroanatomy
Author(s)	Stephen G. Waxman
Edition	26th Edition
Short Name	Ref #1
Other Information	McGraw-Hill Education

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Neuroanatomy Through Clinical Case	Hal Blumenfeld	2nd Edition	Sinauer Associates

Instructor

Name	Dr. Ala'a Jaber
Office Location	L2 -13
Office Hours	Sun : 12:00 - 14:00 Mon : 10:30 - 11:30 Tue : 12:00 - 14:00 Wed : 10:30 - 11:30
Email	afjaber@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 08:30 - 09:30 Room: NG57

Prerequisites		
Line Number	Course Name	Prerequisite Type
102261	MED226 Neuroscience (1)	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction and Neuroanatomical Review	From Ref #1
Week 2	Higher-order cerebral Dysfunction (Language and Visual-spatial)	From Ref #2
Week 3	Higher-order cerebral Dysfunction (Consciousness and Memory)	From Ref #2
Week 4	Stroke	From Ref #2
Week 5	Traumatic Brain Injury	From Ref #2
Week 6	Alzheimers Disease	From Ref #2
Week 7	Parkinsons Disease	From Ref #2
Week 8	Spinal cord injury	From Ref #2
Week 9	Peripheral nerve injuries	From Ref #2
Week 10	Amytrophic Lateral Sclerosis	From Ref #2
Week 11	Multiple Sclerosis	From Ref #2
Week 12	Guillain Barre Syndrome	From Ref #2
Week 13	Autonomic Nervous System Dysfunction	From Ref #2
Week 14	Brain Tumors	From Ref #2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To review different neuroanatomical structures with the central and peripheral nervous systems. [10PLO2] [1L7K1]	10%	First Exam
To introduce students to common neurological conditions affecting different structures of the nervous system [50PLO2] [50L7K1]	50%	First Exam, Second Exam, Final Exam

Identify the major diagnostic and assessment procedures used by rehabilitation staff to evaluate patient with neurological disorders. [10PLO2, 10PLO3] [10L7K1]	20%	First Exam, Second Exam
Utilize the understanding of the clinical neuroanatomy principles in building basic rehabilitation intervention [5PLO2, 5PLO3] [10L7S2]	10%	Second Exam
To understand the impact of the disabilities associated with neurological conditions on individuals daily life [10PLO3] [10L7K1]	10%	Final Exam

Relationship to Program Student Outcomes (Out of 100%)								
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
	75	25						

Relationship to NQF Outcomes (Out of 100%)	
L7K1	L7S2
90	10

Evaluation	
Assessment Tool	Weight
First Exam	30%
Second Exam	30%
Final Exam	40%

Policy

Course Policies	<p>Statement of Professionalism: Students must adhere to the rules of professional conduct at all times. Examples of unprofessional behavior include but are not limited to: missing classes, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, inappropriate dress for labs, and sleeping during class.</p> <p>Exams: Exams may include essay and multiple choice questions. It is imperative to attend all exams. Absence in any exam requires the approval of the head of department and the faculty dean in order to prepare and take a Make-up exam.</p> <p>Cheating: All assignments and learning activities should be of the student's own work unless instructed differently. The instructor will follow JUST's roles and regulation in the cases of cheating and/or plagiarism. Group discussions are highly recommended however it's crucial for each student to submit individual assignment, unless I indicate otherwise.</p> <p>Cell phone and pagers: Please do not use cell phones or pagers in class. If you are depended upon for anticipated emergencies, please put cell phones on vibration mode and answer the phone outside the classroom.</p> <p>Attendance: Attendance will not count for points in this class, however attending the lectures and labs will greatly enhance your grade. The student is responsible for any information discussed in lecture and lab sessions. It is imperative to attend all classes!</p> <p>Absences: According to Student Manual (Item 8: B, C & D), students are not allowed to be absent for more than 20% of lectures without any official excuse (and more than 20% with an official excuse). If a student exceeds either cases, he or she will not be allowed to sit for future course exams and will earn the least possible grade for the course (35%), unless the student had already withdrawn from the course (according to item 13: B).</p> <p>Make-up will be granted in the following cases only: Official university activities (with proper documentation). Extenuating circumstances (PRIOR approval should be obtained or direct contact made with the instructor within 24 hours)</p> <p>Feedback: Students are more than welcome to contact the course instructor with any concerns, questions, and/or feedback. Students can contact your instructor at the following e-mail address: afjaber@just.edu.jo.</p>
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