Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Optometry Department

OPT.411 Neuro - Optometry - JNQF Level: 7
First Semester 2023-2024

Course Catalog
3 Credit Hours. This course discusses the etiology, symptoms, signs, diagnosis and management of neuro-ophthalmic disorders. It also discusses the role of optometrists in the detection, and referral of a case suspected to have a neuro-ophthalmic disorder. Teaching mode: Blended: Each section will attend one face-to-face lecture and one online lecture every week. Lectures recording and handouts, and other supportive/ teaching material will be available on JUST e-learning.
Teaching Method: Blended

Text Book	
Title	Clinical Neuro-Ophthalmology: A practical guide
Author(s)	Schiefer et al.
Edition	1st Edition
Short Name	Ref. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	Neuro-ophthalmology: Diagnosis and management	Liu G et al.	2nd Edition	

Instructor	
Name	**Dr. Areej Okashah**
Office Location	AMS-L1
Office Hours	
Email	aaokashah@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Mon : 13:00 - 14:30
Room: N4205

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
1103260	OPT.326 Ocular Disease(2)	Prerequisite / Study
102261	MED226 Neuroscience (1)	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introduction to the course	From **Ref. 1**, From **Ref. 2**
Week 2	Functional anatomy of the human visual pathway	From **Ref. 1**
Weeks 3, 4	Taking history of neuro-ophthalmic disorders cases and recognition of neuro-ophthalmic emergencies	From **Ref. 1**, From **Ref. 2**
Weeks 5, 6, 7	Diagnosis of neuro-ophthalmic history. Visual loss of uncertain origin: diagnostic strategies (Neuro-ophthalmic examination flow-chart)	From **Ref. 1**, From **Ref. 2**
Weeks 8, 9	Electrophysiology in the diagnosis of neuro-ophthalmic disorders	From **Ref. 1**, From **Ref. 2**
Week 10	Perimetry in the diagnosis of neuro-ophthalmic disorders	From **Ref. 2**
Weeks 11, 12	Disorders of the afferent visual pathways (e.g. optic neuropathies)	From **Ref. 1**, From **Ref. 2**
Week 13	Transient and functional visual loss. Visual hallucinations and illusions	From **Ref. 1**
Week 14	Efferent and supranuclear neuro-ophthalmic disorders (e.g. nystagmus)	From **Ref. 1**
Week 15	Pupillary disorders	From **Ref. 1**, From **Ref. 2**
Week 16	Special topics (e.g. malingering) and revision	From **Ref. 1**, From **Ref. 2**

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	**Course Outcome Weight (Out of 100%)**	**Assessment method**

Identify the anatomy of the neurological visual system and relate them to neurological visual loss [1PLO 3] [1L7K1]	10%	Midterm exam
Apply components of a comprehensive and/or focused history for a patient referred with neuro-ophthalmic disorder. [1PLO 1] [1L7S1]	15%	Midterm exam
Demonstrate knowledge of the neurological diseases that may affect the eye (including afferent, efferent, supranuclear disorders) [1PLO 3, 1PLO 8] [1L7K1, 1L7S1]	15%	Midterm exam, Final exam
Interpret results of the basic ophthalmic techniques in the assessment of sensory and motor visual functions of the visual system. [1PLO 5] [1L7S2, 1L7S3]	15%	Final exam
Put/ suggest an appropriate diagnosis for neuro-ophthalmic disorders by applying a systematic flow chart (including ruling out and inclusion criteria) [1PLO 5, 1PLO 6, 1PLO 8] [1L7S1]	15%	Midterm exam
Appreciate the role of the Optometrist in the early detection and referral of neuro-ophthalmic disorders and apply their knowledge to clinical cases [1PLO 8] [1L7C2, 1L7C3]	15%	Final exam
Demonstrate knowledge of the management procedures of neuro-ophthalmic disorders. [1PLO 2, 1PLO 4] [1L7C2, 1L7C4]	15%	Final exam

Relationship to Program Student Outcomes (Out of 100%)								
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
15	7.5	17.5	7.5	20	5		27.5	

Relationship to NQF Outcomes (Out of 100%)						
L7K1	L7S1	L7S2	L7S3	L7C2	L7C3	L7C4
17.5	37.5	7.5	7.5	15	7.5	7.5

Evaluation	
Assessment Tool	**Weight**
Midterm exam	50%
Final exam	50%

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, 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, and sleeping during class.
Cheating and/or plagiarism	University regulations will be applied on cases of cheating and/or plagiarism

Attendance - Absences	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes! Absences: University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)
Make-up exams	Make-up exams are allowed for students who miss the exam with officially accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)
Feedback/complaints/ concerns	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor during office hours, or through email or e-learning messages.

Date Printed: 2024-02-13