Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Optometry Department

OPT.213 Ocular Anatomy & Physiology Lab - JNQF Level: 7
First Semester 2023-2024

Course Catalog
1 Credit Hours. This course will provide students with practical experience in the application of their theoretical knowledge of the ocular anatomy and physiology. The students will be able to identify and locate key anatomical structures of the eye through lab sessions using human skulls and eye models. Clinical case studies will be used develop practical skills essential for assessing the ocular health using ophthalmic diagnostic tools.
Teaching Method: On Campus

Text Book	
Title	Lab manual
Author(s)	course coordinator
Edition	1st Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Ocular Anatomy and Physiology	Al Lens, Sheila Coyne Nemeth, and Janice K. Ledford, Thorofare, NJ	2nd Edition	
Ref #3	Clinical Ophthalmology: A systemic Approach	Jack J.Kanski	7th Edition	

Instructor	
Name	**Dr. Mera Haddad**
Office Location	-
Office Hours	

Email	mfhaddad@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon : 08:30 - 10:30 Room: LAB Section 2: Lecture Time: Wed : 08:30 - 10:30 Room: LAB Section 3: Lecture Time: Thu : 10:30 - 12:30 Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Lab Instructions and Introduction	From **Ref #1**
Week 2	The orbit parts and fucntion	From **Ref #1**, From **Ref #2**
Week 3	Eyelids ,Eyelashes and Lacrimal System: Anatomy and function	From **Ref #1**, From **Ref #2**
Week 4	Lacrimal System function: secretory and excretory systems	From **Ref #1**
Week 5	Secretory System ? The Tear Film- Parts and Evaluation	From **Ref #1**, From **Ref #2**
Week 6	Extra Ocular muscle Terms and Measurements ,Origin ,Insertion, Innervations ,blood supply and Action	From **Ref #1**, From **Ref #2**
Week 7	The Cornea: structure and function, Anterior Chamber: structure and function Iris and Pupil	From **Ref #1**, From **Ref #2**
Week 8	Posterior chamber: structure and function Lens: structure and function Vitreous Cavity	From **Ref #1**, From **Ref #2**
Week 9	Retina ,choroid ,sensory retina	From **Ref #1**, From **Ref #2**
Week 10	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 and locate ocular structures accurately using model-based learning [10PLO 3, 15PLO 5] [25L7K1]	25%	
Demonstrate competence in using ophthalmic diagnostic tools essential for the assessment of ocular structures such as the slit lamp, ophthalmoscope, and tear film assessment [10PLO 3, 15PLO 5] [15L7S1, 10L7S2]	25%	
Integrate the theoretical knowledge with basic diagnostic procedure specific for certain anatomical structures such as ocular motility, binocular assessment and pupil reaction [15PLO 1, 10PLO 5] [10L7S1, 15L7S3]	25%	
Demonstrate understanding of common ocular condition and diseases using clinical cases and relate them to diagnostic tests and management [10PLO 4, 15PLO 5] [15L7S1, 5L7S2, 5L7C4]	25%	

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		20	10	55				

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C4
25	40	15	15	5

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

Policy	
Attendance	- Students are expected to attend all the course lectures'. - Unexcused absences of more than 10% of the required attendance will deserve a fail in this course. - In a case of excused absence e.g. illness or emergency, students should contact the course coordinator immediately. And a formal written excuse from the physician should be submitted by the student in a case of illness, otherwise the absence will be considered unexcused. - In case of absence on the date of exam(s), students will not be allowed to set for a makeup exam unless they have got an approval from the deanship of AMS for this regard.
Expected workload	- Students are expected to be a good participant during the course lectures' - Students are expected to think critically about the knowledge that they will get during the course. - Students should set for all the specified examinations, as well as quizzes - Students are obligated to do all assignments & homework.

Feedback	- All feedback, comments, opinions, concerns, requests, enquires or questions are welcomed & should be discussed in the first place with the course coordinator; either by email or in-person. - If the course instructor hasn't been cooperative regarding a specific issue, students can follow the hierarchy starting with the head of the department, followed by the dean & finally the president office. Until their problem(s) is solved. - Exams results, feedback as well as key answers will be reported & discussed after one week of the examinations date. - Questions regarding lectures' contents can either be discussed during the lecture (preferably) or during the office hours

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