



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

OPT.234 Binocular Vision(1) Lab - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

1 Credit Hours. This practical will develop hands-on experience in the assessment and management of ocular motility and binocular vision status of the eye. Students will develop skills using variety of orthoptic and binocular vision techniques, special diagnostic tests and instrumentations used in the investigation of binocular functions and diseases.

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Lab manual
<b>Author(s)</b>	course coordinator
<b>Edition</b>	1st Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Normal binocular vision : theory, investigation, and practical aspects	Stidwill, David. Fletcher, Robert	2nd Edition	

**Instructor**

Name	<b>Dr. Mera Haddad</b>
Office Location	-
Office Hours	
Email	mfhaddad@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Sun : 09:30 - 11:30  
Room: LAB

Section 2:  
Lecture Time: Thu : 08:30 - 10:30  
Room: LAB

Section 3:  
Lecture Time: Tue : 13:30 - 15:30  
Room: LAB

### Tentative List of Topics Covered

Weeks	Topic	References
Week 1	single and binocular vision	From Ref #1
Week 2	Accommodation tests and ACA ratio	From Ref #1
Week 3	Stereopsis and stereo tests	From Ref #1
Week 4	eye movement and ocular muscle motility	From Ref #1
Weeks 5, 6	Cover test	From Ref #1
Weeks 7, 8	Phoria testing	From Ref #1
Weeks 9, 10	Convergence, Fusional reserves and Fixation disparity	From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Develop hands-on skills to conduct binocular vision assessment such as accommodation, fusion and stereopsis using appropriate techniques [25PLO 5] [5L7K1, 10L7S1, 10L7S2]	25%	
Demonstrate proficiency in conducting ocular motility examination including eye movement, fixation, pursuit and saccades using appropriate techniques [25PLO 4] [5L7K1, 10L7S1, 10L7S2]	25%	
Develop skills to identify and diagnose common ocular motility and binocular vision anomalies such as phoria and tropia and relate these anomalies to visual comfort and function [10PLO 4, 15PLO 5] [15L7S1, 10L7S2]	25%	
Demonstrate basic knowledge of therapeutic intervention for common binocular vision anomalies such as orthoptic exercises and the use of prisms [15PLO 4, 10PLO 5] [5L7S1, 10L7S2, 10L7C1]	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
			50	50				

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C1
10	40	40	10

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

Policy	
Attendance	<ul style="list-style-type: none"> <li>- Students are expected to attend all the course lectures'.</li> <li>- Unexcused absences of more than 10% of the required attendance will deserve a fail in this course.</li> <li>- 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.</li> <li>- 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.</li> </ul>
Expected workload	<ul style="list-style-type: none"> <li>- Students are expected to be a good participant during the course lectures'</li> <li>- Students are expected to think critically about the knowledge that they will get during the course.</li> <li>- Students should set for all the specified examinations, as well as quizzes</li> <li>- Students are obligated to do all assignments &amp; homework</li> </ul>
Feedback	<ul style="list-style-type: none"> <li>- All feedback, comments, opinions, concerns, requests, enquires or questions are welcomed &amp; should be discussed in the first place with the course coordinator; either by email or in-person.</li> <li>- 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 &amp; finally the president office. Until their problem(s) is solved.</li> <li>- Exams results, feedback as well as key answers will be reported &amp; discussed after one week of the examinations date.</li> <li>- Questions regarding lectures' contents can either be discussed during the lecture (preferably) or during the office hours</li> </ul>

Date Printed: 2024-02-17