



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Allied Medical Sciences
Second Semester 2013-2014
Course Syllabus

Course Information	
Course Title	Ocular Motility and normal binocular vision
Course Code	OPT 246
Course Credits	2 Credit Hours
Course Coordinator	Dr. Mera Haddad
E-mail	mfhaddad@just.edu.jo
Course Description	
<p>This course is designed to introduce 2nd year students to the normal binocular status of the human eye. In addition, the students will learn special diagnostic tests and instrumentations used in the investigation of binocular functions and diseases.</p>	

Textbook	
Title	1. Foundations of binocular vision: A clinical perspective.
Author(s)	Steinman, Steinman and Garzia
Publisher	McGraw Hill
Year	2000
Book website	
Other references	2. Diagnosis and management of Ocular motility disorders. Mein.J and Trimble.R 3. Clinical Orthoptics. Fiona Rowe 4. Evans. B Pickwells Binocular Vision Anomalies. Butterworth-Heinmann Press 5. Noorden.G.K. von. Binocular vision and ocular motility 6. E-learning: Additional reading materials folder
Notes	PowerPoint slides will be available on JUST e-learning

Assessment	
Assessment	Percentage
First Exam	30%
Second Exam	30%
Final Exam	40%
Exams' feedback & results	Will be provided for students after one week of the examination's date; except for the final exam.

Course Objectives	Percentage
1. Provide students with basics terminology and theoretical concepts that describe normal binocular vision.	100%
2. Provide students with the essential knowledge of different ophthalmic instrumentations and diagnostic tests principles that are used in assessment of binocular vision.	
3. Understanding of the indications of different clinical techniques and instrumentations that used in vision assessment.	
4. Gained an enhanced and more specialist knowledge in selective areas of binocular vision and eye research.	

Teaching & Learning Methods
<ul style="list-style-type: none"> • PowerPoint lectures • Class discussion • Participation • In-& out campus visits <p>Teaching duration:</p> <ul style="list-style-type: none"> • Duration: 15 weeks • 30 lectures, one hour each

Learning Outcomes: Upon successful completion of this course, students will be able to		
	Related Objective(s)	Reference(s) Handouts
1	To understand why humans have developed BV	Chapter 1
2	To understand the theory behind BV	Chapter 2
3	To understand the physiological and neural mechanisms responsible for normal and abnormal BV	Chapter 3
4	To recognise what constitutes normal and abnormal visual alignment	Chapter 4

5	To recognise and evaluate the signs and symptoms of abnormal binocular vision.	Chapter 5

Course planner	
Topics	Chapter in Textbook (handouts)
Concepts of BV 1	Chapter 1- handout
Concepts of BV 2	Chapter 1- handout
Fusion and Stereopsis	Chapter 1- handout
Stereotests	Chapter 2- handout
First exam Heterophoria	Chapter 2- handout
Investigation of phoria 1	Chapter 2- handout
Investigation of phoria 2	Chapter 2- handout
Fixation disparity	Chapter 3- handout
Vergence	Chapter 3- handout
Second exam	Chapter 3- handout
Introduction to oculo-motor movement	
Consequences of strabismus 1	Chapter 4- handout
Consequences of strabismus 2	Chapter 5- handout
Revision	Chapter 5- handout

Additional Notes
<p>Attendance policy:</p> <ul style="list-style-type: none"> • Students are expected to attend all the course lectures'. • Unexcused absences of <u>more than 10%</u> 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.
<p>Expected workload:</p> <ul style="list-style-type: none"> • 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.
<p>Feedback:</p>

- 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