Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Optometry Department

OPT.332 Binocular Vision(2)

Second Semester 2023-2024

Course Catalog
3 Credit Hours. This course is designed to address the presence of strabismus vs. the normal state of binocularity. The course describes in detail the classification and types of strabismus and, the differentiation between anomalies that can be managed with glasses, prisms, and vision therapy vs. those that require the consultation of the ophthalmologist. Protocol of referral is intrinsic in the course subjects. Advanced knowledge and clinical management of different types of strabismus will be covered.
Teaching Method: On Campus

Text Book	
Title	Binocular Vision Anomalies
Author(s)	Bruce Evans
Edition	5th Edition
Short Name	Ref #1
Other Information	

Instructor	
Name	**Mrs. Hala Abu Zahou**
Office Location	-
Office Hours	
Email	hrabuzahou5@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 08:30 - 10:00 Room: M3301

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
1102340	OPT.234 Binocular Vision(1) Lab	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Eye Movements and Extraocular Muscles	
Week 2	Introduction to Strabismus	
Week 2	Suppression	
Week 3	Amblyopia	
Week 4	Intermittent Exotropia	
Week 4	Intermittent and Accommodative ET	
Week 5	Constant ET, DVD and nystagmus	
Week 5	Constant XT, vertical deviations and Non-Functional BV	
Week 6	MICROTROPIA	
Week 7	incomitance; complex OMS and muscle sequelae.	
Week 8	incomitance; AHPs and Alphabet patterns.	
Week 9	Development and ocular motility: Brown?s and Duane?s.	
Week 10	Systemic conditions and ocular motility: Thyroid, MG	
Week 11	Case studies (workshops)	

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the anatomy of the 6 extra ocular muscles, their innervations, anatomical positions related to the eye and their field of action.	15%	
Integrate sound clinical reasoning with theoretical knowledge and current evidence, to analyze orthoptic patient cases and develop appropriate and effective investigation and therapeutic management plans.	15%	
Demonstrate beginner-level clinical skills in common orthoptic investigative methods and therapeutic techniques, and accurately interpret observations and test results, relating these to the diagnosis and management of orthoptic conditions.	15%	
Use knowledge of normal binocular vision and ocular motility including, the underlying anatomy and physiology, to determine the impact of conditions on normal development and function.	10%	

Utilise effective communication skills for the explanation of tests, clinical conditions and orthoptic therapeutic procedures in terms that can be readily understood by a diverse range of patients, while demonstrating a respectful and compassionate approach to patient care, particularly for children and their families.	15%	
Interpret patient presenting signs and symptoms and link these to clinical data, drawing on knowledge of disorders affecting binocularity and ocular motility, to formulate appropriate diagnoses and plans for the investigation of these conditions.	15%	
Use knowledge of incomitant strabismus and abnormal ocular motility to understand muscle sequelae, Brown syndrome, Duane syndrome, A and V pattern and abnormal head postures.	15%	

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

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

Policy	
Statement on Professionalism	Professional behaviour is expected of students at all times. Attitude and professional behaviour is a minimum criterion for passing this class. Examples of unprofessional behaviour include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lectures, leaving a lecture before its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class
Cheating	University regulations will be applied to cases of cheating and/or plagiarism
Cell phone:	The use of cellular phones is prohibited in classrooms and during exams. The cellular phone must be switched off in classrooms and during exams.
Attendance	No points will be counted for points attendance in 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 regulations for more details)

Make-up Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulations for more details)
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important to the instructor. You can contact your instructor using the e-mail or during office hours

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