Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Optometry Department

OPT.473 Paediatric Optometry - JNQF Level: 7

First Semester 2023-2024

Course Catalog
3 Credit Hours. This course covers the different aspects concerning the eye care for children. It includes full coverage of the embryology and early anatomical and functional development of the child's visual system. In addition to detailed knowledge visual examinations approaches/techniques for children at different ages. It is also emphasizing the differences between adults and children in all aspects of eye care including different diagnostic techniques, diseases and different therapeutics. Special conditions of peculiar relevance to children such as amblyopia, learning disabilities and congenital disorders are also covered. Teaching mode: Face to face/ on campus
Teaching Method: On Campus

Text Book	
Title	Assessing Children Vision: Handbook
Author(s)	Leat, et al.
Edition	1st Edition
Short Name	Ref. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	Paediatric Ophthalmology	Nelson et al.	1st Edition	
Ref. 3	Pediatric Ophthalmology and Strabismus	Taylor, and Hyot	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, Wed : 10:00 - 11:30 Room: N4206

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

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introduction to the course	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Weeks 2, 3, 4	Embryology of the human eye	From **Ref. 2**
Week 5	Development of the child's visual functions	From **Ref. 2**
Week 6	Examination techniques and routines for children I (Infants and toddlers)	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Week 7	Examination techniques and routines for children II (pre-school age children)	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Week 8	Examination techniques and routines for children III (School age children)	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Weeks 9, 10	Guidelines for prescribing optical correction in children.. (Reference to this topic is AAO, and Leat prescribing guidelines)	
Week 11	Common ocular disorders in children	
Week 12	Systemic congenital disorders and their ocular manifestations in children	From **Ref. 2**

Week 13	Amblyopia diagnosis, management and follow-up	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Week 14	Cortical visual impairment CVI: clinical characteristics, assessment of visual impairment, available management/ rehabilitation options	
Week 15	Children with special needs (e.g. autism, dyslexia, learning disabilities, hyperactivity, uncooperative child, deaf-blind child	From **Ref. 1**, From **Ref. 2**, From **Ref. 3**
Week 16	Pediatric optometry problems solving and cases discussions	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate knowledge of embryology of the human eye, and the development of ocular structures and normal visual functions [1PLO 3] [1L7K1]	20%	Midterm exam
Identify and use different assessment and examinations techniques of children vision and visual functions [1PLO 1, 1PLO 2, 1PLO 5, 1PLO 7] [1L7K1, 1L7S1]	20%	Midterm exam
Relate physical manifestations and systemic functional limitations with children attending optometry clinics and [1PLO 3, 1PLO 4] [1L7S2]	10%	Midterm exam
Identify common ocular and visual disorders in children including [1PLO 8] [1L7S3]	10%	Final exam
Identify and explain amblyopia diagnosis, management, and follow-up [1PLO 1, 1PLO 4, 1PLO 8] [1L7C4]	10%	Final exam
Identify learning disabilities/ difficulties in children [1PLO 8] [1L7C4]	10%	Final exam
To be familiar with cortical visual impairment CVI cases [1PLO 4, 1PLO 8] [1L7C4]	10%	Final exam
To understand the optical prescribing guidelines and requirements and apply this to clinical cases [1PLO 1, 1PLO 4] [1L7C2]	10%	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
13.33	5	25	18.33	5		5	28.33	

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S1	L7S2	L7S3	L7C2	L7C4
30	10	10	10	10	30

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! 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 e-mail or e-learning messages

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