



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Allied Medical Sciences
Optometry Program
Course Syllabus

Course Information	
Course Title	Pediatric Optometry
Course Code	OPT 473
Prerequisites	OPT 326
Course Website	JUST E-learning https://learn.ejust.org/

Course Description, Aims and Objectives
<p>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 emphasizes 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.</p>

Textbook/s	
Book 1	
Title	Assessing Children Vision: Handbook
Author(s)	Leat, et al.
Publisher	Butterworth-Heiemann
Year	1999
Edition	
Book Website	
Book 2	
Title	Paediatric Ophthalmology
Author(s)	Nelson et al.
Publisher	Elsevier
Year	2008
Edition	1 st
Book Website	
Book 3	
Title	Pediatric Ophthalmology and Strabismus
Author(s)	Taylor, and Hyot
Publisher	Elsevier

Year	2005
Edition	2 nd
Book Website	

Useful Resources
Additional external references and reading material will be provided were appropriate

Assessment		
Assessment	Expected Due Date	Percentage
First Exam	Week 5	30%
Second Exam	Week 9	30%
Final Exam	According to JUST final exam schedule	40%
TOTAL		100%
Teaching and Learning Methods		
<ul style="list-style-type: none"> ▪ Lectures handouts, PowerPoint lectures, book chapters, electronic resources, peer-reviewed articles, or case reports, appropriate to each selected topic. ▪ Groups' discussion. ▪ Evidence based problem solving. ▪ Cases discussion. ▪ Brain storming. ▪ All lectures handouts will be available on JUST E-learning. 		

Learning Objectives:

After studying the material covered in lectures, practical sessions, clinical seminars and case presentations of this course, the student is expected to achieve the following learning objectives:

Learning objectives	Weight
1. To understand embryology of the eye	10%
2. To understand children normal functional visual development	10%
3. To understand different assessment and examinations techniques' of children vision and visual functions	10%
4. To understand the guidelines for prescribing in children	10%
5. To deal with children attending optometry clinics and relate physical appearance and systemic functional limitations	10%
6. To understand common ocular and congenital conditions that affect children vision	10%
7. To understand amblyopia diagnosis, management, and follow-up	10%
8. To understand learning disabilities/ difficulties in children	10%
9. To be familiar with cortical visual impairment CVI	10%
10. To discuss special cases such as timing to consider congenital cataract surgery in children, and when to consider cycloplegic refraction in children etc.	10%

Learning outcomes:

After studying the material covered in lectures, practical sessions, clinical seminars and case presentations of this course, the student is expected to achieve the following learning outcomes:

	Learning outcome	References
1.	To be familiar with embryology of the eye	Book 2
2.	To be familiar with children normal functional visual development	Book 2
3.	To be able to understand different assessment and examinations techniques' of children vision and visual functions	Book 1 and AOA guidelines
4.	To be able to understand the guidelines for prescribing in children according to clinical presentations, visual limitations, and tasks requirements	Book 1 and Leat et al. 2011 (review paper)
5.	To be able to deal with children attending optometry clinics and to relate physical appearance and systemic and functional disorders	Book 1 to 3
6.	To be familiar with common ocular and congenital conditions that affect children vision	Book 2, and Book 3
7.	To be able to identify amblyopia diagnosis, management, and follow-up	Book 1
8.	To be able to understand learning disabilities/ difficulties in children	Book 1, and Book2
9.	To be familiar with cortical visual impairment CVI	Book 2, and Book3
10.	To be able to discuss special cases such as timing to consider congenital cataract surgery in children, and when to consider cycloplegic refraction in children etc...	Cases discussion, Book 1, and Book 2

Lectures/topics:

Weeks	Lecture Topic	Specific learning objectives	References
1	Introduction to the course	1 to 10	Book 1 to 3
2	Embryology of the human eye	1	Book 2
3	Child visual functions development	2	Book 2
4	Examination techniques and routines for children Dry refraction vs. cyclo-refraction in children	3, 10	Book 1 and AOA guidelines
5	Assessment of vision and visual functions of children Special testing techniques for children	3	Book 1 and AOA guidelines
6	Guidelines for prescribing optical correction in children: Dealing with children attending optometry clinics	4	Book 1, and Leat et al. 2011 (review paper)
7	Ocular conditions/ disorders in children (congenital, acquired, infections, etc.)	6	Book 2, and Book 3
8	Amblyopia diagnosis, management and follow-up	7	Book 1
9	Cortical visual impairment CVI	9	Book 2 and Book 3
10	Children with special needs (e.g. autism, dyslexia, learning disabilities, hyperactivity, uncooperative child, deaf-blind child)	8	Book 1, and book 2
11	Systemic congenital disorders and their ocular manifestations in children	5	Book 2 & Book 3
12	Pediatric optometry problems: Cases discussion (e.g. optical prescribing, unusual appearing eye, abnormal head posture, sleep disorders and poor vision, child who closes one eye, abnormal blinking and eye closure, photophobia, watering eye, eye pain, proptosis,)	10	Book 1 & Book 2

13	Revision	1 to 10	Book 1 to 3
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Additional Notes	
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	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone:	The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Attendance	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!
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 regulation 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 regulation for more details)
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours

Kindest Regards