



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

OPT.342 Low Vision And Visual Rehabilitation - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

2 Credit Hours. Low vision patients have reduced vision that cannot be corrected with conventional spectacles, contact lenses, but they have some useful residual vision. Optimizing the use of useful residual vision and maintaining daily living tasks for patients with visual impairment, customizing optometric procedures for patients with low vision along with the use of appropriate low vision aids/ devices and/ or rehabilitation or training are the major aims of this course. Lectures handouts and supplementary material will be available on the course website <https://learn.ejust.org/> Other references will be provided when required.

**Teaching Method:** On Campus

**Text Book**

Title	Low vision manual
Author(s)	Jackson and Wolffsohn
Edition	1st Edition
Short Name	Ref. 1
Other Information	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	Low vision: Principles and practice	Christine Dickinson	4th Edition	

**Instructor**

Name	Dr. Areej Okashah
Office Location	AMS-L1
Office Hours	
Email	aaokashah@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Sun, Tue : 13:30 - 14:30 Room: M3301

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
1103630	OPT.363 Optometry Theory Examination(2) Lab	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Weeks 1, 2	Low vision (definitions, prevalence, etiology, impact, management)	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Week 3	Psychology of low vision Low vision methods: Refracting patients with low vision	From <b>Ref. 1</b>
Weeks 4, 5	Low vision methods: Assessment of visual functions Assessment of functional vision	From <b>Ref. 1</b>
Week 6	Management modalities of patients with low vision (optical LVAs, non-optical LVAs, electronic LVAs, sight substitution device, vision rehabilitation, patients training, emerging technology and future)	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Week 7	Magnifiers advantages, disadvantages	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Week 8	Magnifiers optics and calculations	From <b>Ref. 1</b>
Weeks 9, 10	Telescopes advantages, disadvantages, optics and calculations	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Week 11	Low vision aids to compensate for visual field loss, glare, and reduced contrast sensitivity	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Weeks 12, 13	Reading performance assessment and special assessment techniques for patients with low vision	From <b>Ref. 1</b> , From <b>Ref. 2</b>
Week 14	Vision rehabilitation	From <b>Ref. 1</b>
Week 15	Revision	From <b>Ref. 1</b> , From <b>Ref. 2</b>

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Knowledge of different definitions of visual impairment (low vision and blindness) [1PLO 3] [1L7K1]	10%	Midterm exam
Demonstrate knowledge of the psychology of low vision patients [1PLO 3] [1L7K1]	10%	Midterm exam
Apply skills in refracting (objectively and subjectively) a low vision patient, and to assess visual functions (e.g. reading performance) of a low vision patient. [1PLO 1, 1PLO 2, 1PLO 5] [1L7S1, 1L7S2, 1L7S3]	25%	Midterm exam
Differentiate different low vision aids (e.g. optical, non-optical) and to do the required calculations to get the required magnification (magnifiers) at near and distance (telescopes) for a particular patient based on his best corrected visual acuity. [1PLO 1, 1PLO 3] [1L7S2, 1L7C1]	25%	Midterm exam, Final exam
Demonstrate knowledge of the uses, advantages and disadvantages, of different low vision aids and the restrictions associated with the use of these devices [1PLO 1, 1PLO 3] [1L7K1]	15%	Final exam
Demonstrate comprehensive knowledge of the scope and importance of vision rehabilitation in minimizing the impact/effect of low vision and visual functions disability. [1PLO 1, 1PLO 2, 1PLO 3] [1L7S2]	5%	Final exam
Identify causes of visual impairment and their impact of visual impairment on patients' lives. [1PLO 5, 1PLO 8] [1L7S3, 1L7C2]	10%	Final exam

<b>Relationship to Program Student Outcomes (Out of 100%)</b>								
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
30	10	41.67		13.33			5	

<b>Relationship to NQF Outcomes (Out of 100%)</b>						
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	
35	8.33	25.83	13.33	12.5	5	

<b>Evaluation</b>	
<b>Assessment Tool</b>	<b>Weight</b>
Midterm exam	50%
Final exam	50%

<b>Policy</b>

Course policy	<p>Statement on Professionalism: Professional behavior is expected from students all the time. 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.</p> <p>Cheating: University regulations will be applied on cases of cheating and/or plagiarism.</p> <p>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!</p> <p>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)</p> <p>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)</p> <p>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.</p>
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