

Opto-495 Syllabus

Instructor: Shatha Algowaifly

Time: Thursday from 8-11

Room # 11

Credit hours : 3


OPTO-495

Low Vision

This course focuses on the aetiology, demography and clinical characteristics of low vision, techniques of examination, and the principles of diagnosis and optometric therapy. Clinical applications of magnification, illumination control and visual field enhancement will be studied as well as types and characteristics of low vision aids, social and psychological considerations and multidisciplinary approaches to rehabilitation.

Week	Day	Subject Area	Notes
1	Thur 5-9-2013	Introduction to the course content	
2	Thur 12-9-2013	<ul style="list-style-type: none">• Definition and Classification of Visual Impairment.• Causes and Risk Factors.• Prevalence and Incidence of Visual Impairment.• The Consequences of Low Vision.	
3	Thur19-9-2013	MAGNIFICATION 1. Definition of magnification.	

		<p>2. Principle and Methods of magnification:</p> <p>3. <u>Types of magnification:</u></p> <ul style="list-style-type: none"> • Lateral (transverse or linear) Magnification • Angular Magnification • Effective Magnification • Prescribing Near Plus Magnifiers • Fixed focus stand magnifiers 	
4	Thur 26-9-2013	<p>4. <u>Types of magnification:</u></p> <ul style="list-style-type: none"> • Magnifying Lens and Bifocal add-in combination • Galilean Telescopes • Keplerian Telescopes • Simple Microscopes • Compound Microscopes • Lens caps • Regarding the eye and its refractive correction as a telescope system • Contact lens telescopes 	
5	Thur 3-10-2013	<ul style="list-style-type: none"> • Optical Aids (for near & distance & Advanced technologies Aids). Advantages and disadvantages for each one. • Field expansion Aids 	

6	Thur 10-10-2013	Review	
7	Thur 17-10-2013	Eid Vacation 	
8	Thur 24-10-2013	1 st Midterm (up to lecture 4)	
9	Thur 31-10-2013	Non Optical Aids	
10	Thur 7-11-2013	<p>1. <u>Examination procedures:</u></p> <ul style="list-style-type: none"> • Patient History • Visual Acuity • Refraction • Illumination • Keratometry • Visual functioning tests: (color tests, visual field test, contrast sensitivity test & glare test) <p>Eccentric viewing training and other supplements.</p>	
11	Thur 14-11-2013	<p>Clinical Prescribing magnification (calculation)</p> <ul style="list-style-type: none"> • Magnification for Near. • Magnification for Distance. <p>Example of Low vision clinical cases.</p>	
12	Thur 21-11-2013	Review	
13	Thur 28-11-2013	2 nd Midterm	
14	Thur 5-12-2013	Case presentation	
15	Thur 12-12-2013		
16	Thur 19-12-2013		
17	Thur 26-12-2013		
18	Tue 31 Dec, 2013	Final Exam on Tuesday from 10-12	

		Room BB4	
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جدول اختبار يوم الثلاثاء الموافق 28 / 2 / 1435هـ

م	الوقت	رقم المقرر ورمزه	أستاذ المقرر	عدد الطالبات	المراقبات	المراقبات البدليات	القاعة	ملاحظات
1	10-8	عرب 103						محدد
2	12-10	عرب 101						محدد
3	4-1 مساء	سلم 107						محدد
4	12-10	495 بصير	أ. شذى التويطي	2	أ. شواق الموسى	أ. هند الدياسي	ب-ب 4	
5		328 بصير	أ. شذى التويطي	30	أ. ريم المطيري			

Grading:

- 1st midterm 25%
- 2nd midterm 25%
- Assignment and case presentation 10 %
- Final Exam 40%

References:

- Principles and Practice, Chris Dickinson, (Published by Butterworth-Heinemann, 1998).
- Schwartz, *Geometrical and Visual Optics*.
- Lectures notes