

Ophthalmic Lenses and Dispensing

Module Code:	OPT5002-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Optometry and Vision Science
Subject Area:	Optometry
FHEQ Level:	FHEQ Level 5

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	48
Laboratory	24
Directed Study	126
Examinations DO NOT USE	2

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

To stimulate an understanding of the fundamental principles of simple and complex lens types and knowledge of their performance. To enable students to analyse their suitability in a variety of situations.

Outline Syllabus

Lens form. Surface power. Transposition. Toric lenses. Focimeter. Ophthalmic prisms. Prismatic effect of ophthalmic lenses. Spectacle frame description. Frame and facial measurements. Spectacle lens material. Lens surfacing. Lens aberrations. Bifocal, trifocal and multifocal lenses. Thick lens theory as applied to moderate to high power

prescriptions. Best form lens theory. Near vision effectivity in spherical and astigmatic prescriptions. Trial case lenses. Aspheric lenses. Tints and coatings. Frame materials.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Describe the form and optical characteristics of simple and advanced types of ophthalmic lenses, including multifocal and aspheric lenses.
- 2 Analyse patient requirements in ophthalmic lens dispensing and apply knowledge of ophthalmic lenses to select appropriate appliances.
- 3 Describe the information gained from measurements of optical appliances.
- 4 Refine ability to take accurate and repeatable measurements and record these in a clear and concise manner.
- 5 Demonstrate an ability to handle data accurately and confidently.
- 6 Refine problem-solving skills.

Learning, Teaching and Assessment Strategy

This module is based on a lecture series and practical sessions.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - closed book	Closed book unseen written exam	2 hours	70%	Yes
Referral	Examination - closed book	Supplementary: closed book unseen written exam	2 hours	100%	No
Summative	Classroom test	Practical assessment week 12		15%	No
Summative	Classroom test	Practical assessment week 24		15%	No

Legacy Code (if applicable)

OP-0307L

Reading List

To view Reading List, please go to [rebus:list](#).