

Module Details	
Module Title:	Ophthalmic Lenses and Dispensing
Module Code:	OPT5002-B
Academic Year:	2019-20
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	128

Availability	
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.

Learning Outcomes

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
Summative	Computerised examination	Closed book unseen exam	2 hours	70%
Referral	Computerised examination	Supplementary: closed book unseen exam	2 hours	100%
Summative	Classroom test	Practical assessment week 12		15%
Summative	Classroom test	Practical assessment week 24		15%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.