






MODULE SPECIFICATION

Part 1: Information			
Module Title	Vision and Optics		
Module Code	UZZY4T-30-1	Level	1
For implementation from	September 2018		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Health and Applied Sciences	Field	Allied Health Professions
Department	Allied Health Professions		
Contributes towards	BSc(Hons) Optometry		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>This module will enable students to develop a fundamental understanding of geometrical and physical optics and their relevance to the eye, and present the theories of spectacle lenses.</p> <p>Students will examine light propagation by performing laboratory experiments, using ray diagrams and mathematics (students will be required to use algebra, trigonometry and indices). Students will be introduced to a variety of spectacle lenses and how to verify these lenses using focimetry.</p> <p>This module will cover the underlying mechanisms of the human visual system and how these mechanisms develop in the early years of life.</p> <p>This module will be typically delivered through weekly lectures and weekly practical lab classes. Students will also typically spend one week in a lens laboratory or optometric practice.</p>
Part 3: Assessment: Strategy and Details
<p>Component A will be an Objective Structured Clinical Examination (OSCE), maximum 45 minutes in duration, where lens recognition, lens problems and focimetry will be assessed line with General Optical Council competency requirements.</p>

<p>Rationale – this will assess students’ ability to demonstrate physical skills in specific optical procedures under timed examination conditions.</p> <p>Component B will be a 2000 word written assignment on visual perception.</p> <p>Rationale – students will be assessed on their understanding of the theory of visual perception and students will be able to develop their academic writing skills.</p> <p>Formative Assessment: A lab book will be completed throughout the year comprising of formative feedback for students, in addition to formative in-class quizzes, and peer and tutor feedback throughout the module’s teaching activities and review of draft written work. Students will complete a library workbook to assist them with essay writing skills for component B.</p>		
Identify final timetabled piece of assessment (component and element)	Component B	
% weighting between components A and B (Standard modules only)	A:	B:
	60%	40%
First Sit		
Component A (controlled conditions) Description of each element		Element weighting
1. Objective Structured Clinical Examination (OSCE) maximum 45 minutes		100%
Component B Description of each element		Element weighting
1. 2000 word written assignment		100%
Resit (further attendance at taught classes is not required)		
Component A (controlled conditions) Description of each element		Element weighting
1. Objective Structured Clinical Examination (OSCE) maximum 45 minutes		100%
Component B Description of each element		Element weighting
1. 2000 word written assignment		100%
Part 4: Learning Outcomes & KIS Data		
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate an understanding of the propagation of light, definition of vergence and sign conventions (Component A) • Exhibit an understanding of how wave and particulate theories of the nature of light can explain phenomena such as diffraction and interference (Component A) • Verify lenses using a focimeter, and demonstrate an understanding of reflection and refraction at plane, curved surfaces and through a prism (Component A) • Solve optics problems involving thick and thin lenses and use ray tracing (Component A) 	

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| | <ul style="list-style-type: none">• Describe the nature of visual perception and motion perception and of the development of vision in infancy (Component B)• Demonstrate a good knowledge of spatial, temporal and colour vision, and the factors that limit resolution (Component B) |
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Key Information Sets Information (KI)	<table border="1"> <thead> <tr> <th colspan="6">Key Information Set - Module data</th> </tr> </thead> <tbody> <tr> <td colspan="5">Number of credits for this module</td> <td>30</td> <td></td> </tr> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> <th></th> <th></th> </tr> <tr> <td>300</td> <td>135</td> <td>127.5</td> <td>37.5</td> <td>300</td> <td></td> <td></td> </tr> </tbody> </table>						Key Information Set - Module data						Number of credits for this module					30		Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours			300	135	127.5	37.5	300		
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Total Assessment	<p>The table below indicates as a percentage the total assessment of the module which constitutes a;</p> <p>Written Exam: Unseen or open book written exam Coursework: Written assignment or essay, report, dissertation, portfolio, project or in class test Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam (i.e. an exam determining mastery of a technique)</p> <table border="1"> <thead> <tr> <th colspan="2">Total assessment of the module:</th> </tr> </thead> <tbody> <tr> <td>Written exam assessment percentage</td> <td>0%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td>40%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td>60%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </tbody> </table>						Total assessment of the module:		Written exam assessment percentage	0%	Coursework assessment percentage	40%	Practical exam assessment percentage	60%		100%																	
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Reading List	<p>The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. <i>Current</i> advice on reading will be available via the online module reading list:</p> <p>https://uwe.rl.talis.com/lists/B29222C8-30F1-3009-A351-01900CB0F073.html</p>																																

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First CAP Approval Date	26 October 2017			
Revision CAP Approval Date		Version	1	MIA 10695