



Module Specification

Binocular Vision and Paediatrics

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	3
Part 4: Assessment.....	4
Part 5: Contributes towards	5

Part 1: Information

Module title: Binocular Vision and Paediatrics

Module code: UZYY4Y-15-2

Level: Level 5

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: This module will introduce students to the concept of binocularity (two eyes) and how humans utilise this type of vision. Students will learn the laws that govern monocular and binocular eye movements, the concepts of fusion, the

horopter and binocular rivalry.

The module will also cover the assessment of eye movements/ vergence using motility, spatial localisation and visual direction, stereopsis, classifications and objective or subjective measurement of eye deviations.

Students will receive an outline knowledge of some binocular vision anomalies and their aetiology and management, plus the hospital care of binocular vision anomalies, and the appropriate referral pathways from primary to secondary care.

Students will examine the normal and abnormal development of visual functions in infancy and childhood, myopia progression and the various treatments available, and paediatric specific pathology. Students will cover how to treat the younger patient, and will be introduced to some aspects of behavioural optometry.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will typically comprise of weekly contact lectures and online learning. Students will experience a placement period at an orthoptic department or clinic.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate an understanding of the laws that govern eye movements, the concepts of fusion, the horopter and, spatial localisation, stereopsis and classifications of eye deviations

MO2 Describe the aetiology and management of some binocular vision anomalies

MO3 Explain the normal development of visual functions, and how to manage abnormal developments

MO4 Alter their normal practise to treat younger patients safely and effectively

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 118 hours

Placement = 7.5 hours

Face-to-face learning = 36 hours

Total = 161.5

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzyy4y-15-2.html) via the following link <https://uwe.rl.talis.com/modules/uzyy4y-15-2.html>

Part 4: Assessment

Assessment strategy: The assessment task is a 2-hour written examination in which all parts of the module may be tested. The exam will contain MCQs, SAQs, and long-answer questions.

Rationale: The focus of this module is theory; this is effectively assessed by a written examination where students can demonstrate applied knowledge by answering scenario based long-answer questions within the exam. This will allow students to be assessed efficiently on factual knowledge as well as exploring more depth and application through longer answers.

Formative assessment: Students will be able to engage in formative quizzes and exam opportunities throughout the module, in addition to obtaining feedback during module activities.

Assessment tasks:**Examination** (First Sit)

Description: Exam (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Examination (Resit)

Description: Exam (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Optometry [Glenside] BSc (Hons) 2022-23