Module Specification

Investigative Techniques

Version: 2023-24, v2.0, 14 Apr 2023

Contents

Part 1: Information

Module title: Investigative Techniques

Module code: UZYY4U-15-1

Level: Level 4

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: This module will cover methods of anterior and posterior eye examination and procedures for determining visual function, such as visual acuity, colour vision and contrast sensitivity. It will also cover the theory of, and examination

with, instrumentation for anterior and posterior eye evaluation (direct and indirect ophthalmoscopy).

Outline syllabus: The module will introduce students to the mechanisms of a slit lamp biomicroscope and will enable students to use a variety of techniques to assess the ocular health.

The physiology of the visual pathway will be included and students will be exposed to some basic visual pathway anomalies. Non-contact tonometry will also be introduced, and students will be shown how to use a selection of non-contact instruments to measure the intraocular pressure.

Biomedical research will form the latter part of the module – students will learn how to critically appraise research, particularly instrumentation validation, and the ethical dilemmas that present with biomedical research.

Part 3: Teaching and learning methods

Teaching and learning methods: This module will typically be delivered by weekly contact lectures, group work sessions and practical sessions

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

MO1 Measure and assess visual function of patients of any age with appropriate tests and techniques

MO2 Demonstrate a variety of slit lamp techniques, and indirect ophthalmoscopy methods using hand-held and head-mounted instruments

MO3 Describe the visual pathway and some basic anomalies occurring in the pathway and use a variety of non-contact tonometry instruments

MO4 Demonstrate an understanding of the various methods and ethics used in biomedical research and statistical methods used to evaluate ophthalmic instrumentation

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 118 hours

Face-to-face learning = 72 hours

Total = 190

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/uzyy4u-15-1.html

Part 4: Assessment

Assessment strategy: Assessment task: Structured Oral and Practical Examination (maximum 1 hour)
Alternatively (covid-related): Structured oral examination online (max 1 hour)

Rationale: This will assess all aspects of the module ensuring that student's practical ability (such as slit lamp techniques, indirect ophthalmoscopy and non-contact tonometry) will be assessed and underpinned by sound knowledge of the principles and research considerations through a combination of practical tasks and oral questioning.

Formative assessment: Students, in addition to practical skills sessions, will complete in-class tests and have the opportunity to receive formative feedback during module activities from both peers and tutors.

Assessment tasks:

Practical Skills Assessment (First Sit)
Description: Structured oral and practical examination (max 1 hour)
Alternatively (covid-related): Structured oral examination online (max 1 hour)
Weighting: 100 %
Final assessment: Yes

Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4

Practical Skills Assessment (Resit)
Description: Structured oral and practical examination (max 1 hour)
Alternatively (covid-related): Structured oral examination online (max 1 hour)
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) 2023-24