Module Descriptor

Ocular Health Assessment 1

Module Code: OPT4012-D
Academic Year: 2016-17
Credit Rating: 40
School: School of Optometry and Vision Science
Subject Area: Optometry
FHEQ Level: FHEQ Level 4
Module Coordinator: Dr Christopher Davey

Additional Tutors:

Pre-requisites: 
Co-requisites:

Contact Hours

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Lectures</td>
<td>48</td>
</tr>
<tr>
<td>Tutorials</td>
<td>24</td>
</tr>
<tr>
<td>Laboratory</td>
<td>24</td>
</tr>
<tr>
<td>Directed Study</td>
<td>298</td>
</tr>
<tr>
<td>Examinations DO</td>
<td>6</td>
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</table>

Availability Periods

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>Location/Period</th>
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<tbody>
<tr>
<td>BDA</td>
<td>University of Bradford / Academic Year (Sept - May)</td>
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Module Aims

To stimulate a broad understanding of anatomical & functional relationships between the eye, the brain, & their supporting structures.
To develop knowledge of anatomy, physiology & immunology & their relationships to body systems including the eye. To develop knowledge of microbial causes of infection/disease & the ways in which they are diagnosed & controlled. To provide students with an introduction to the major classes of
physiologically important molecules; & to introduce the function of such molecules in living cells & tissues, including the eye and related organs.

To outline the salient features of ophthalmic instrument design and to enable students to competently use clinical ophthalmic instruments as part of the optometrist`s role of assessing ocular health.

**Outline Syllabus**


Anatomy and physiology of the endocrine system.

Functioning of the immune system

Microbiology:

Biochemistry:

The portfolio includes a completed record of studies in ocular anatomy & physiology & the development of practical skills in the techniques of slit lamp, indirect ophthalmoscopy, non-contact tonometry and perimetry.

**Module Learning Outcomes**

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

1. Describe the anatomy of the normal eye and explain its relationship to the brain.
2. Understand the design of ophthalmic instruments.
3. Explain the role of instrumentation for the examination of visual and ocular health.
4. Outline the anatomy and physiology of body systems including the eye in relation to health and disease.
5. Discuss microbial diversity and describe representative species of bacteria, viruses, fungi and parasites of medical importance.
6. Outline how micro-organisms, by their growth and activities, impact on human health.
7. Outline the structure, function and chemical interactions of biologically relevant molecules and their relationship with disease.
8. Recognise the fundamental anatomical and physiological substrates underlying ocular pathology.
Describe the information gained from the use of commonly used ophthalmic instruments.

Examine a patient’s eyes in a safe systematic manner with a selection of instruments.

Work together in small teams or with a partner.

Begin to develop communication skills.

Demonstrate teamwork skills through completion of lab work in pairs or small groups.

Improve own learning & performance through reading course notes & preparing laboratory reports.

Learning, Teaching and Assessment Strategy

The module is based on a lecture series, team-based learning activities and practical classes supported by online multimedia material.

1. The fundamental principles relating to the instruments and techniques used to assess ocular health and the anatomical and functional relationships between the eye, the brain, and their supporting structures are covered in formal lectures.

2. Practical classes are used to develop basic skills and assess competence in fundamental clinical examination techniques.

3. Practical laboratory sessions are designed to provide visual clarification of the information provided in lectures.

4. Basic anatomy, physiology, biochemistry and microbiology material will be provided via directed study of a series of online resources supported by optional tutorial sessions.

5. Additional directed study will be based on recommended texts.

Mode of Assessment

<table>
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<tr>
<th>Type</th>
<th>Method</th>
<th>Description</th>
<th>Length</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Summative</td>
<td>Computerised examination</td>
<td>Closed book computerised exam at the end of the module.</td>
<td>3 hours</td>
<td>80%</td>
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<tr>
<td>Summative</td>
<td>Computer-based assessment</td>
<td>&quot;Competency assmnt - series of comp. assmnts covering basic anatomy, physiology, biochem &amp; microbiol - PASS/FAIL&quot;</td>
<td>0 hours</td>
<td>%</td>
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<tr>
<td>Summative</td>
<td>Clinical Assessment</td>
<td>&quot;Competency assessment - clinical assessment in slit lamp, indirect opthalmoscopy, non-contact tonometry &amp; visual fields</td>
<td>2 hours</td>
<td>20%</td>
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Legacy Code (if applicable)

OP-0112L

Reading List
To view Reading List, please go to rebus:list.