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## **1.0 Introduction**

### **1.1 Members of Staff of the Department (Academic and Non - Academic)**

#### Academic Staff

1. Professor Bernice O. Adegbehingbe
2. Professor Oluwatoyin H. Onakpoya
3. Dr. Sarat A. Badmus
4. Dr. Oluwaseun O. Awe
5. Dr. Bolajoko A. Adewara

#### Non-Academic Staff

1. Mr Reuben Olaniyi

#### Associate Lecturers

1. Dr Omolola Idowu (Associate Professor of Ophthalmology, University of Maryland Medical Center, Baltimore, USA)
2. Dr Azeezat Aderounmu (Consultant Ophthalmologist, Obafemi Awolowo University Teaching Hospitals Complex, Ile-Ife)
3. Dr Idowu A. Okorie (Consultant Ophthalmologist, Obafemi Awolowo University Teaching Hospitals Complex, Ile-Ife)

### **1.2 Historical Notes**

#### **1.3. History of the University**

Obafemi Awolowo University, Ile-Ife is one of three Universities established in Nigeria between 1961 and 1962 as a result of the report submitted to the Federal Government in September, 1960, by a Commission it appointed in April 1959 under the Chairmanship of Sir Eric Ashby, Master of Clare College, Cambridge, to survey the needs of post-secondary and higher education in Nigeria over the next twenty years. On 8th June, 1961 the Law providing for the establishment of the Provisional Council of the University was formally inaugurated under the Chairmanship of Chief Rotimi Williams.

On 11th June, 1970, an Edict known as the University of Ife edict, 1970 was promulgated by the Government of the Western State to replace the Provisional Council Law of 8th June, 1961. This Edict has since been amended by the Obafemi Awolowo University, Ile-Ife (Amended) Edict No. 112 of 1975 (Transitional Provisions) Decree No.23 of 1975. This new Decree effected a takeover of the Obafemi Awolowo University by the Federal Military Government and established a Provisional Council as an interim governing body of the University which shall subject to the general direction of the Head of the Federal Government, control the policies and finances of the University and manage its affairs. This Provisional Council has since been replaced by a Governing Council.

The University started with five Faculties – Agriculture, Arts, Economics and Social studies (now Social Sciences), Law and Science. Six new Faculties have since been added, namely the Faculty of Education (established on 1st October, 1967), the Faculty of Pharmacy (established on 1st October, 1969), the Faculties Technology and Health Sciences (now College of Health Sciences) (both established on 1st October, 1960), Faculty of Administration with effect from 1st October 1979) and Faculty of Environmental Design and Management (established on April 6, 1982).

In 1992, the University established a collegiate system with five Colleges. The system did not function effectively and was abandoned after two years. However, the Postgraduate College and the College of Health Sciences were retained. The College of Health Sciences now comprises of the Faculties of Basic Medical Sciences, Clinical Sciences and Dentistry.

The following other Institutes and major units exist in the University:

- The Adeyemi College of Education located in Ondo
- The Institute of Agricultural Research and Training, Ibadan
- The Natural History Museum
- The Institute of Ecology and Environmental Studies
- The Centre for Gender and social Policy Studies
- The Centre for Industrial Research and Development
- The Institute of Public Health
- The Institute of Cultural Studies
- The Technology Planning and Development Unit
- The Computer Centre
- The Drug Research and Production Unit
- The Equipment Maintenance and Development Centre
- The Central Technological Laboratory Workshop
- The Central Science Laboratory
- Centre for Gender and Social Policy Studies
- Centre for Distance Learning
- Entrepreneurship and Development Studies (IFEDS)
- Obafemi Awolowo University Investment Company Limited

Finally, some other agencies over which the University has no direct, or, in some cases limited control, have premises within the University.

- African Regional Institute for Geospatial Information Science and Technology (AFRIGIST) formerly RECTAS
- The National central for Technology Management
- The Centre for Energy Research and Development
- The African Regional Centre for Space Science and Education in English.

Finally, some other agencies over which the University has no direct, or, in some cases limited control, have premises within the University.

The student population has rising steadily from 244 in 1962/63 to over 30,000 at present.

#### 1.4 Mission, Vision, Major Thrusts of the University

##### **Mission**

To nurture a teaching and learning community; advance frontiers of knowledge; engender a sense of selfless public service; and add value to African culture.

##### **Vision**

A top rated university in Africa.

The **major thrusts** of the University Strategic Plan for 2016 – 2020 are:

- Teaching,
- Research and Innovation,
- Governance,
- Fund Generation and Management,
- Human Resources Development and
- Infrastructure and Estate Development.

These major thrusts involve the following broad objectives:

- The modernization of the University's teaching programmes, through a continuous review of the curricula and teaching support services
- The pursuit of a research agenda that will deepen the University's contribution to national development through research outputs and products uptake,
- The preparation of students for self-employment and entrepreneurship.
- The continued development and expansion of Information and Communication Technology (ICT) for all aspects of the institution's functions.
- An expanded revenue base backed by improved financial management capability.
- The development of strategic linkages and partnerships

1.5 History of the Faculty of Clinical Sciences (in the Faculty Handbook)

1.6 History of the Department of Ophthalmology

The Department of Ophthalmology is one of the departments in the Faculty of Clinical Sciences within the College of Health Sciences. It was established on 1<sup>st</sup> of August, 2016; prior to then, Ophthalmology was a Unit under Department of Surgery since inception of the College of Health Sciences. It oversees the Eye Care Centre in the Ife Hospital unit and Wesley Guild Hospital of the Obafemi Awolowo University Teaching Hospital. The department is located on the second floor in the College of Health Sciences building.

1.7 Mission, Vision, objectives of the Department

**Mission**

To provide the highest achievable standard of ophthalmic education through student-centred comprehensive curriculum, evidence-based research activities and compassionate community eye care delivery.

**Vision**

To be an internationally acclaimed center of excellence in ophthalmic education, research and community service.

1.8 Information of Facilities

A. Hezekiah Oluwasanmi Library, College of Health Sciences Library, Faculty of Clinical Sciences Library

B. Division of Students' Affairs

1.9 University Examination Regulations

1.10 Registration for University Examinations

1.11 Absence from Examination

1.12 Examination Offences

1.13 Penalties

(1.8 -1.13 – as contained in College of Health Sciences/Faculty of Health Sciences Handbook)

## 2.0 Outline of Departmental Programme

### 2.1 General Departmental Requirements

Students must have passed courses in Anatomy, Physiology and Biochemistry in their pre-clinical years before being admitted to the CLI 417 (Introductory Ophthalmology Course); in addition, they must have passed courses in Pharmacology and Pathology to go through the CLI 506 (Clinical Ophthalmology Course).

Undergraduate curriculum in Ophthalmology is generally aimed at providing a solid foundation of knowledge and skills in Ophthalmology to medical students, to enable them take appropriate ophthalmic history and perform accurate primary care ophthalmic examination. The students will acquire the ability to screen for visual impairment, diagnose and appropriately manage emergent and common ophthalmic conditions, as well as properly triage other ocular diseases.

### 2.2 Courses and Course Contents

| <b>Code</b> | <b>Title</b>               | <b>Duration</b>               | <b>Coordinator</b> |
|-------------|----------------------------|-------------------------------|--------------------|
| CLI 417     | Introductory Ophthalmology | 10 days (1-hour lecture /day) | Dr Badmus          |

This course is part of the Integrated lecture series and introduce the student to ophthalmic principles.

#### Course Content

Anatomy & Function of the Eye & Orbit. Overview and evaluation of the ophthalmic patients to include history taking & Basic eye examination. Drugs and the eye. WHO Classification of Visual loss. Major causes of Blindness and Low Vision. Blindness Prevention. Refractive Error and its corrections. The Red eye. Cataract. Ocular trauma. Glaucoma. Tumours of the eye and orbit. Ocular Manifestations of Systemic diseases (Hypertension, Diabetes Mellitus, HIV/AIDS, Dysthyroid eye disease, Sickle cell disease, Myasthenia gravis, Albinism). Disorders of the Optic Pathway and Cranial nerve palsies.

| <b>Code</b> | <b>Title</b>           | <b>Duration</b>     | <b>Coordinator</b>     |
|-------------|------------------------|---------------------|------------------------|
| CLI 506     | Clinical Ophthalmology | 2 weeks (9am – 5pm) | Prof. Adegbehingbe/Awe |

This course combines both lectures and intense clinical posting involving ophthalmoscopy, tonometry, refraction, ophthalmic case assessment and basic corneal evaluation. The student will be exposed to diagnosis and management of various disease states that affect the eyes directly and indirectly.

#### Course Content

Introduction to Ophthalmology: WHO definition of blindness, Causes and prevention. Visual acuity, definition and significance. Refractive errors and correction. The Red Eye: causes, management and prevention. Acute Visual Loss: causes. Chronic Visual Loss: Causes. Amblyopia and Strabismus: Types and management. Neuro-Ophthalmology: Optic nerve head diseases. The Eye & Systemic Disease: Diabetes, hypertension etc. Ocular and Orbital Injuries; types, presentation and management

#### Teaching/ Instruction Mode

1. Didactic lectures/tutorials/seminar presentations. (10 hours/week).
1. Clinic attendance for clerking and presentation, basic clinic procedures. (21 hours/week).
2. Ward rounds (10 hours/week).
3. Operating Theatre sessions (9 hours/week).
4. Students will record cases seen in logbooks, which will include the level of learning - Observer status (O), Assistant status (A), Performed under supervision (PS), Performed Independently (PI).

Clinical skills to be acquired are -

|    |                                                                           | <b>Skill</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Knowledge</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Attitude</b>                                                                                                                                                       |
|----|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Screening for visual impairment                                           | -VA-Snellen chart (Illiterate E-chart).<br>+ PH, reading<br>-Teaching + supervision of VA measurement                                                                                                                                                                                                                                                                                                                                                                                                                                               | -understanding meaning of VA.<br>-methods of measurement.<br>WHO criteria + classification of visual impairment<br>-what to refer to ophthalmologist.                                                                                                                                                                                                                                                                                                                                     | -Patience<br>-Tolerance<br>-Respect for patients.                                                                                                                     |
| 2. | Diagnosis & management of common eye diseases & major causes of blindness | -VA<br>-History taking & simple loupes<br>-pen torch exam of anterior segment<br>-pupillary light reaction<br>- Schiötz Tonometry +digital<br>-Fundoscopy +/-Dilatation<br>-Confrontation visual field.<br>-Ocular motility<br>-Writing referral<br>-Prescription writing<br>-Removal of superficial foreign body.<br>-Staining with Fluorescein<br>-Conjunctival swab<br>-Delegation, teaching + Supervision of the above.<br>-Make diagnosis + record clearly<br>-Application of eye dressing + medications.<br>-Conduct community based research | Basic anatomy + physiology of eye +orbit<br>Common causes of blinding + non-blinding diseases + acute ocular emergencies<br>-know what to treat; what to initiate treatment + what to refer<br>-Basic knowledge of methods of visual enhancement + substitution (rehabilitation)<br>-research methodology (basic)<br>-ocular pharmacology; essential drug list<br>-instillation of eye drops<br>- prevention of blindness<br>-community approach to control of major causes of blindness. | Keen interest on preventing blindness.<br>-realising importance of intervention<br>-appreciating the psyche of blind people.<br>-humility, tolerance+ mutual respect. |
| 3. | Counsel eye patients + provide relevant information                       | Communication skills<br>-explain patient's eye condition to patient, family/friends<br>-reassurance<br>-encourage to use medication as prescribed.<br>-genetic counselling as appropriate<br>-counselling for visual enhancement +substitute<br>- medical ethics + medico-legal                                                                                                                                                                                                                                                                     | -Local names of common eye diseases.<br>knowledge, attitude, perception +practices<br>-Pathology/causes of common eye diseases<br>-where to refer patients for visual enhancement + substitution<br>-medical ethics + medicolegal aspects.                                                                                                                                                                                                                                                | Need to develop sensitivity, compassion + tolerance                                                                                                                   |

Course assessment will be in form of End of Posting examinations with scoring for:

- a. Attendance, logbook of case presentations, procedures and power point presentation-(as detailed in the Student's log book)- 10 marks
- b. Written examination - Ophthalmology question paper comprising
  1. Essay – short and long answer questions- 5 marks
  2. Multiple choice questions- 50 marks
- c. Practical examination – clinical case discussion, fundoscopy, instruments and equipment / Picture Test - 30 marks
- d. Viva voce in Ophthalmology - 5 marks

The marks will be part of the Part 6 Final examinations in Surgery and Surgical Specialties.

2.3 Electives – as in Faculty of Clinical Sciences handbook

2.4 Prizes in the Department

Ophthalmological Society of Nigeria Prize (OSN) for the best student in Ophthalmology - will be given to the best graduating student in Clinical Ophthalmology who must have passed the Final year MB.ChB examinations and must not have repeated any year.

**3.0 Areas of Active research**

Blindness and Visual Impairment, Cornea Pathology, Glaucoma; Retina Vein Occlusions, School Eye Health; Retinopathy of Prematurity; Diabetic Retinopathy; Retinal Vein Occlusion; Cataract Blindness.

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