REGULATIONS AND SYLLABUS

FOR

DIPLOMA IN VISION CARE TECHNICIAN (1 YEAR)

Offered by

BHARATHIAR UNIVERSITY, COIMBATORE
FROM 2012 – 2013

Under The

CENTER FOR COLLABORATION OF

INDUSTRY AND INSTITUTIONS (CCII)
DIPLOMA IN VISION CARE TECHNICIAN

Course Title and Course Description

The course shall be called as the “Diploma in Vision Care Technician”

The course intends to train students to do preliminary history recording, eye examination, to perform basic investigations and assisting the ophthalmologist in the out patient, Inpatient departments and in the operation theatre and overall care of the patients and to participate in Community outreach Programs. The students will be taught the basics of ophthalmology including basic sciences, diseases of the eye, investigations, medical & surgical procedures.

The programme will be conducted at a Hospital recognized by the Bharathiar University under the CCII collaborative programme. Candidates shall abide by the stipulated timings, Discipline, rules and regulations of the hospital to which they will be assigned for the entire course.

REGULATIONS

1. Admission Criteria:
   a) Pass in +2 preferably - Science group
   b) Female Candidates aged 17 -19 years of age

2. Duration of the course: 1 year
   One year
   • Academics & Training
   • University Examination

3. Medium of Instruction:
   English shall be the medium of instruction

4. Scholarship
   a. No Course Fee
   b. Stipend will be paid

5. Teaching programme:
   The schedule includes lectures, practical’s and outreach programs.
a. Lectures:

A total of 100 hours of lecture classes will be taken. The topics will include the basic science, diseases of the eye, optics and refraction, clinical skills, eye banking and general patient care. The lectures will include discussion at the end and will concentrate on improving the practical capabilities of the students. The lectures will be taken by experienced Ophthalmologists, and senior staff. The detailed breakup of topics is enclosed.

b. Practical Training:

Being practical oriented programme the focus will be more for practical training. The candidate shall undergo a practical training in various OPD’s and wards. Students will learn the various clinical skills required in an eye hospital by performing them under the guidance of experienced Ophthalmologists and other senior staff. They will be posted in the various departments by rotation and will perform the relevant tasks as described in the enclosure.

c. Outreach camps:

Students will have to attend community outreach camps. The camps will be conducted in rural areas. The candidates will learn the practical aspects of organizing such camps, approach to patients at the camp, clinical evaluation including vision test, IOP recording, lacrimal patency testing & patient counseling.

6. Courses and Scheme of Examination:

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<tr>
<th>Paper No</th>
<th>Subject</th>
<th>Maximum Marks</th>
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<tr>
<td></td>
<td></td>
<td>Internal</td>
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<tr>
<td>I</td>
<td>THEORY - OPHTHALMIC NURSING – I</td>
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<tr>
<td>II</td>
<td>THEORY - DISEASES OF THE EYE - I INSTRUMENTS, PROCEDURES AND INVESTIGATIONS</td>
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<td>III</td>
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<td>V</td>
<td>PRACTICAL: OPHTHALMIC NURSING – II</td>
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7. Requirement to appear for examination:

A candidate should put in a minimum of 80% attendance to be eligible to appear for the examinations.
8. **Passing minimum:**

To pass

a. A Candidate shall secure a minimum of 50% marks individually in the practical and Theory Examinations. A candidate failing in any one component will have to reappear for that particular component only in the supplementary examination.

b. The Candidate shall secure 50% marks in internals.

9. **Classification of successful candidate**

A candidate who has secured 75% and above, aggregate in the theory and practical examinations, in the first attempt, shall be deemed to have passed the examinations First class with distinction.

A candidate who has secured 60% and above aggregate in the theory and practical examinations in the first attempt shall be deemed to have passed the examination with First Class.

Other successful candidates shall be declared to have passed the examination in Second Class.

10. **Conferment of degree:**

A candidate who has passed all the examinations as prescribed, shall be eligible to receive the “DIPLOMA IN VISION CARE TECHNICIAN” from the Bharathiar University.

11. **Revision of regulations and syllabus:**

The syllabus and regulations of the course are subject to modification by the concerned board every 03 years.

12. **Question paper pattern:**

Theory examination will be for 100 marks, which will be converted into 60 marks. The pattern of question paper for all the subject shall be as follows:

- Multiple choice / one word answers : 15 x 2 = 30 marks (no choice)
- Short notes (100 words/ one paragraph) : 6 x 5 = 30 marks (either/or type)
- Elaborate (300 words or 1½ paper) : 4x10 = 40 marks (either/or type)

13. **Award of Internal Assessment Marks**

Internal assessment marks for theory will be awarded based on the Marks obtained in the Three Internal Assessment Tests. Internal assessment marks for practical will be awarded based on the candidates regular performance in the practical area (OP, wards or Operation theatre) and one practical exam marks.

**Employment Opportunities:**

Subject to availability
THEORY - PAPER 1
OPHTHALMIC NURSING – I

OBJECTIVE
To enable the students nurse to know about the anatomy & physiology of eye, and introduce them to the basis of ophthalmic nursing care management.

Unit-1: Anatomy of the Eye, Physiology of the Eye:-


Unit – 2: Optics & errors of refraction:


Unit – 3: Role of a Nurse in care of Ophthalmic Patients:


Unit – 4: Basic Principles of Ocular Therapy:


Unit – 5: Introduction to Basic Equipments used in OPD / Ward:


Reference: Ophthalmic Nursing 1st edition by Dr. A.K. Khurana, MS.

THEORY - PAPER II
Diseases of the Eye - I
INSTRUMENTS, PROCEDURES AND INVESTIGATIONS

OBJECTIVE
To differentiate the diagnosis from the symptoms and signs presented by the patient or through attendant’s appraisal about the illness and to enable the student understand the principles of investigations required in these cases and ultimately the treatment to be applied in individual cases.

Unit – 1: Diseases of Lid:-


Unit – 2: Diseases of Conjunctiva:-


Unit – 3: Diseases of the lacrimal apparatus:-


Unit – 4: Diseases of the Lens:-


Unit – 5: Systemic Ophthalmology, Community Ophthalmology.

Reference: Ophthalmic Nursing 1st edition by Dr. A.K. Khurana, MS.
THEORY - PAPER III
Diseases of the Eye – II
INSTRUMENTS, PROCEDURES AND INVESTIGATIONS

OBJECTIVE

To introduce to students, the various Diseases of the Eye, and to differentiate the Diagnosis from the symptoms and signs presented by the patient about the illness and to enable the students to understand the principles of investigations required in these cases and the treatment to be applied in individual cases.

Unit – 1: Diseases of Cornea & Sclera:-

Diseases of Sclera: Episcleritis - Scleritis – Staphylomas.

Unit – 2: Diseases of the Uveal tract / Glaucoma:-

Diseases of the Uveal Tract: Uveitis: Classification, Diagnosis, Treatment. – Specific uveitis Syndromes – Prulent Endophthalmitis – Panophthalmitis – Tumours of the Uveal tract.

Unit – 3: Diseases of Retina & Vitreous humour:-


Unit – 4:


Unit – 5:


Reference: Ophthalmic Nursing 1st edition by Dr. A.K. Khurana, MS.
PRACTICAL: PAPER I
OPHTHALMIC NURSING – I

OBJECTIVE:

To enable the student to carry out nursing care in O.P.D as well as in Ward

Unit – 1:

Vision checking, Urine sugar checking, IOP Measuring, Checking Lacrimal Patency.

Unit – 2:

Vital Signs– Taking of BP, Pulse, Respiration,
Charting of Temperature ,Bed making,
Use of Oxygen and Care of Cylinder, Basic Emergency Care

Unit – 3:

Introduction to Basic Equipments used in OPD – Slit Lamp, Retinoscope, Trial Frames,
GonioScope, Direct and Indirect Ophthalmoscope, Perimetry, A-scan.

Unit – 4:

Ocular Therapy - Instillation of Eye drops and Eye Ointments, Cleaning and Swabbing of Eye
Lids, Hot and Cold Compresses, Irrigation of Eyes, Practicals in Topical Administration, Oral
Administration.

Unit – 5:

Optics – Identification of Various types of Lenses including IOL,
Use of Trial Frames.

Reference : 1. Practical Manual of Ophthalmology 1st edition by Dr. Vinod Lohya, MBBS,
2. Ophthalmic Nursing 1st edition by Dr. A.K. Khurana, MS.
PRACTICAL- PAPER II
OPHTHALMIC NURSING – II

OBJECTIVE:
To enable the student to assist the Doctor in various procedures, - O.P.D, Ward, OT and Eye Bank.

Unit – 1:
Admission procedure, Discharge procedure, processing a eye patient , Identifying Various Eye Diseases ,Counseling to the patients by Various Eye Diseases

Unit – 2:
Assisting O.P.D Procedures - clinical ocular examination techniques in diagnosis - dilatation, doctors consulting rooms, Investigation rooms, and Laboratory.

Unit – 3:
Outreach Camps – Organizing, Conducting

Unit – 4:

Unit – 5:

Reference:
2. Practical Manual of Ophthalmology 1st edition by Dr. Vinod Lohya, MBBS,
3. Ophthalmic Nursing 1st edition by Dr. A.K. Khurana, MS.