

**REGULATIONS AND SYLLABUS  
FOR  
ADVANCED DIPLOMA IN OPHTHALMIC CARE MANAGEMENT**

*Offered by*

**BHARATHIAR UNIVERSITY, COIMBATORE  
FROM 2007-2008**

*Under The*

**UNIVERSITY INDUSTRY INTERACTION AND  
CONSULTANCY SERVICE CENTER (UIICSC)  
COLLABORATIVE PROGRAMME**

## ADVANCED DIPLOMA IN OPHTHALMIC CARE MANAGEMENT

### 1. Course title

Advanced Diploma in **Ophthalmic Care Management**.

### 2. Course Description

The Course is designed to impart basic medical knowledge, general nursing care, ophthalmic nursing care with special emphasis on practical application and community care, learning about all types of ophthalmological instruments, including the latest state of the art equipments being used for treatment of various eye diseases like Glaucoma, Cataract, Retinal diseases squint, etc. It also includes Pharmacological Ophthalmology and theatre nursing care including theatre sterilization before ophthalmological surgery. They will also be sent to rural and urban eye camps and school screening projects. On completion of the course, the candidate will be completely knowledgeable about ophthalmic nursing in theory and practical as well as in community nursing care.

### 3. Regulations

#### a. Admission criteria

- Any candidate who has passed +2 or an equivalent course (graduates can also apply)
- Both male and female candidates aged 17 years and above are eligible to apply
- Physical fitness certificate to be obtained from a Registered Medical Practitioner.

#### b. Course Duration

- Course : 2 Years

#### c. Medium of instruction

- English

### 4. Course and Scheme of examination

#### First Year

Paper No.	Subject	Credits	Marks	
			Internal	External
	<b>Theory papers</b>			
1	General English		40	60
2	Anatomy & Physiology		40	60
3	Hospital administration		40	60
4	General nursing - I		40	60
5	Ophthalmic nursing - I		40	60
	<b>Practical papers</b>			
6	Hospital administration		40	60
7	General nursing - I		40	60
8	Ophthalmic nursing - I		40	60

#### Second Year

Paper No.	Subject	Credits	Marks	
			Internal	External
	<b>Theory papers</b>			
1	General nursing - II		40	60
2	Ophthalmic nursing - II		40	60
3	Theater nursing		40	60

4	Community nursing		40	60
	<b>Practical papers</b>			
5	General nursing - II		40	60
6	Ophthalmic nursing - II		40	60
7	Theater nursing		40	60
8	Community nursing		40	60

## 5. Practical training

Being practical oriented program, the focus will be more for practical training in Ophthalmology.

## 6. Requirement to appear for examination

Candidate should put in a minimum of 90% attendance to appear for the examinations.

## 7. Passing Minimum

To pass

- A Candidate shall secure a minimum of 50% in the practical and theory to pass the examination. A candidate failing in any of the component will have to reappear for that particular component only in the supplementary examinations.
- A candidate shall secure 50% marks in the internals.

## 8. Classification of successful candidate:

- A candidate securing 75% and above, aggregate in theory and practical examinations, in the first attempt shall be deemed to have passed the examination with distinction
- A candidate securing 60% to 74% of the aggregate in theory and practical examinations, in the first attempt shall be deemed to have passed the examination in the first class.
- All other who have secured the minimum marks in all the papers in theory and practical examinations, shall be deemed to have passed the examination in the second class.

## 9. Conferment of Degree:

A candidate who has passed all the examination as prescribed shall be eligible to receive the diploma in Ophthalmic Care Management from the Bharathiar University.

## 10. Ranking

Candidates who have passed all the examinations in the very first attempt and securing the first position in the aggregate marks for every 10 candidates appearing in the examinations, ranking (with the maximum of 10 positions) will be awarded University ranks.

## 11. Revision of regulation and syllabus:

The syllabus and regulations of the course are subject to modification by the concerned board wherever necessary.

## **12. Examination and Question paper pattern:**

### Examination pattern

Examination will be carried out for Ophthalmic Care Management in all subjects with external and internal each carrying 100 marks.

### Question Paper Pattern

Theory examination will be for 100 marks with the following components which will be converted into 60 marks

- Multiple choice / one word answers: 20 X 1 = 20 marks ( No choice)
- Short Notes (100 words / one paragraph): 5 X 6 = 30 marks ( Either or)
- Elaborate (300 words or 1 ½ paper): 5 X 10 = 50 marks ( Either or )

**I YEAR: PAPER 1**  
**GENERAL ENGLISH**

**OBJECTIVE**

To give basic knowledge of the English language, so as to enable the students to be grammatically correct, both while writing and speaking, to enable them to pronounce correctly, and be able to communicate to patients clearly and concisely, and to enable them to write and express themselves in the correct form.

UNIT – 1	Nouns, Pronouns, Verbs, Adverbs, Auxiliary Verbs, Participles, Quantifier
UNIT – 2	Adjectives, Prepositions, Conjunctions, Clause & Relative Clause, Comparatives and Superlatives.
UNIT – 3	Sentences, Phrases, Subject, Object, Quantifier, Indefinite and Definite Articles.
UNIT – 4	Punctuations, Metaphor, Syllable, Synonym, Acronym, Pronunciation, Use of Dictionaries.
UNIT – 5	Direct Speech, Letter Writing, Manners & Etiquettes, Communicating Skills, Use of the Telephone.

Reference :1.Essential English Grammar-2<sup>nd</sup> Edition by Raymond Murphy.

**I YEAR: PAPER 2**  
**ANATOMY & PHYSIOLOGY**

**OBJECTIVE**

To enable the Student Nurse to have the knowledge of the basic structure of the human body, its skeletal & organ systems and its physiology (i.e, how these systems work).

UNIT – 1	Introduction to Anatomy, Structure of Cells & Tissues, skeletal system, classification of bones, Structure of bone under microscope, Development and Growth of Bones, Bones of the human skeleton, joints & its disorders, Muscular System, Physiology of Muscular System, Skin Anatomy and physiology and Regulation of Body Temperature.
UNIT – 2	Blood & its Composition, Clotting, Types of Blood Group, Average Values, Disorders of Blood Elements, Lymphatic System, Physiology & Blood Lymphatic System.
UNIT – 3	Cardiovascular System, Blood Pressure, Cardiovascular Disorders, Cardiovascular Emergencies, Disorders of Blood Vessels, Respiratory Systems, Respiratory Disorders, Physiology & Respiration.
UNIT – 4	Digestive System, Urinary System, Reproductive System, Digestive System Disorders, Urinary System Disorders, Reproductive System Disorders, Endocrine System and Disorders.
UNIT – 5	Central Nervous System and Disorders, Organs of Special Senses.

Reference :1.Basic Anatomy and Physiology – 6<sup>th</sup> Edition by N.Murugesu.

**I YEAR: PAPER 3**  
**HOSPITAL ADMINISTRATION**

**OBJECTIVE**

To know the basics of health care system, departments in hospital, OPD & IPD procedures, medical documentation & legal aspects in hospital care, Accounting & Billing procedures & Inventory Management.

UNIT – 1	Health care system, Health assessment, Department in hospital.
UNIT – 2	Admission procedure, Discharge procedure, OPD & IPD procedure, processing a eye patient.
UNIT – 3	Management principles in Nursing, ethics & code in Nursing management, legal aspects in Nursing, holistic Nursing.
UNIT – 4	Medical documentation, counselling of patients for the proper surgery, Basics of Accounting & Billing procedures, Third Party Insurance.
UNIT – 5	Patients information on computer, Computerization & Hospital Information System, Record keeping & Operating of MRD (Medical Record Department), Inventory Management.

**Reference: 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition**  
by Sr.Nancy, MSJ.

**I YEAR: PAPER 4**  
**GENERAL NURSING – I**

**OBJECTIVE**

To enable the Student Nurse to learn the basics & general nursing, nursing codes & ethics and develop confidence to attend to any patient and treat them with dignity and respect as envisaged in the Nightingale Pledge & to intercommunicate with Doctors & Other Staff.

UNIT – 1	Introduction to Nursing, Nursing as an art, science and vocation, Principles of nursing, spiritual health, holistic approach.
UNIT – 2	Nursing process, House keeping, preparation of client's unit, Personal hygiene, Personal hygiene and care of incapacitated / immobile patients within Hospital.
UNIT – 3	Medical & Surgical Asepsis, Hospital Cross infection, Barrier Nursing, Antiseptics & Disinfectants.
UNIT – 4	Patient observation & measurements of BP,TPR, Urinary output and documentation in case sheets. Types of beds, positioning of beds. Issue of bedpans, and Urinals
UNIT – 5	Specimen collection, discharge of clients from the hospital.

**Reference: 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition**  
by Sr.Nancy, MSJ.



**I YEAR: PAPER 5**  
**OPHTHALMIC NURSING - I**

**OBJECTIVE**

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

UNIT – 1	Anatomy of the Eye, Physiology of the Eye. Development of the eye.
UNIT – 2	Optics & errors of refraction determination of refractive errors.contact lenses.
UNIT – 3	Basic principles in Management of Ophthalmic patients, Nursing procedure & techniques, Nursing care of non-seeing patients. Laboratory in ophthalmology.
UNIT – 4	Introduction to Basic Equipments used in OPD. Introduction to Drugs used in ophthalmic care.
UNIT – 5	Lasers in ophthalmology, Eye bank

**Reference: 1.** Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod Lohya, MBBS.  
**2.** Ophthalmic Nursing 1<sup>st</sup> edition by Dr. A.K. Khurana, MS.

**I YEAR: PAPER 6**  
**PRACTICAL: HOSPITAL ADMINISTRATION**

**OBJECTIVE:**

To enable students to know about documentation of patients, computerization, procedures being followed in OPD & IPD, Practical procedures in Billing & Accounting and Inventory of Various Stores used in Hospital and their procurement procedures and accounting and Inventory Management.

Unit -1	Hospital Layout and Functioning of Departments – A Practical Knowledge. Practical in procedures followed during Admission, Billing, Enquiries, and Documentation at Reception.
Unit-2	General Examination, Patient’s History Taking, Assisting and Examination, Positioning of Patients during examinations, Conducting Patients within Various Departments.
Unit - 3	Preparing of Optimum Reports. Hospital Computerisation and Documentation Procedures – practical drills. Medical Records – Maintenance and Indexing.
Unit - 4	Visits to – Housekeeping and General Stores, Canteen, Pharmacy, Library and Administrative Office. Practical Training in Indenting of Stores for Wards and Departments.
Unit - 5	Conducting Patients to Various Investigation Rooms, Laboratory, Pre-Operative Room, Wards, Theatre, Both General and Lasik, and Conducting Patients after discharge for Post Operative consultation.

**Reference:** 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition  
by Sr.Nancy, MSJ.

**I YEAR: PAPER 7**  
**PRACTICAL: GENERAL NURSING – I**

**OBJECTIVE**

To provide practical Nursing Training to Students to enable them to learn all the Practical aspects in General Nursing.

UNIT – 1	Practical training in Housekeeping – Care of rubber Enamel, and Glass ware, care of linen and blankets, cleaning of stainless steel, crockery and cutlery, care of furniture, care of sanitary annexe, care of kitchen and patient rooms.
UNIT – 2	Practical aspects in Medical Asepsis - personal hygiene of persons of both normal and incapacitated patients – Air cleaning, Skin Care, Mouth Care, Eyes, Nose and Ears Care, Bath, Sponge Bath, and Other type Bath, Care of Perineal area.
UNIT – 3	Practical in Surgical Asepsis – Disinfection , Fumigation, Sterilization, Use of Antiseptics and Disinfectants, Practical demonstration of the working of Autoclave ( Manual & Automatic ) and ETO sterilizers.
UNIT – 4	Practical Classes in Patient’s Observations – Taking of BP, Pulse, Respiration, Charting of Temperature and Urinary Output, Measuring of Urinary Output, Collection of specimens. Bed making, Positioning of Various types of Patients. Use of Oxygen and Care of Cylinder, Observation of Conscious and Unconscious Patients.

**Reference: 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition**  
by Sr.Nancy, MSJ.

**I YEAR: PAPER 8**  
**PRACTICAL: OPHTHALMIC NURSING – I**

**OBJECTIVE:**

To enable the student to carry out Nursing care in O.P.D as well as in - patients of all ophthalmic patients. Introducing students to basic equipment kept in O.P.D and practical training in eye care.

Unit -1	Practical tanning of ophthalmic patients in O.P.D- clinical ocular examination techniques in diagnosis, introduction to department of refraction, dilapidation, doctors consulting rooms, Investigation rooms, and Laboratory.
Unit-2	Introduction to Basic Equipments used in OPD – Slit Lamp, Retinoscope, Trial Frames, Gonioscope, Direct and Indirect Ophthalmoscope, Perimetry, A-scan, SPM and IOL Master.
Unit - 3	Optics – Identification of Various types of Lenses including IOL, Prisms, Use of Trial Frames. Practical Reading of print outs after Investigations.
Unit - 4	Lab Investigation – Practicals. Blood Taking, ECG, A-Scan, SPM, Keratometry.
Unit - 5	Detailed Practical Training in Pharmacology (Ophthalmic Drugs)

Reference : 1.Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod Lohya, MBBS,

2.Ophthalmic Nursing 1<sup>st</sup> edition by Dr. A.K. Khurana, MS.

**II YEAR: PAPER 1**  
**GENERAL NURSING – II**

**OBJECTIVE**

To give broader knowledge in Nursing care, which includes types of oral drugs and its Administration, Ethical aspects of Drug Administration, Administration of fluids, , including and specifying injuries to the eye. To introduce emergency care in various diseases.

UNIT – 1	General principles of drug administration, drug types, information about drugs.
UNIT – 2	General principles of Injections, types of Injections and its Administration, Fluids & its types and use and Administration. This unit also will highlight the caution to be taken while Administering Drugs & Fluids & be aware of adverse effects and also ethical aspects of Drug & Fluid Administration.
UNIT – 3	Comfort measures, Elimination.
UNIT – 4	Nutrition, metabolism, Diet & Vitamins.
UNIT – 5	Hot and cold applications, Unconscious clients.

**Reference: 1.**Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition  
by Sr.Nancy, MSJ.

**2.**Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod  
Lohya, MBBS,

**II YEAR: PAPER 2**  
**OPHTHALMIC NURSING – II**

**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 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 the Eye – Introduction, Conjunctiva diseases, Lid,Diseases & Uveal tract & treatment, Diseases of Cornea & Sclera.
UNIT – 2	Diseases of the lacrimal apparatus, Diseases of the Lens & Glaucoma.
UNIT – 3	Diseases of Retina & Vitreous humor.
UNIT – 4	Squint, Nystagmus, systemic ophthalmology.
UNIT – 5	Neuro ophthalmology, diseases of orbit, ocular injuries.

**Reference: 1.Ophthalmic Nursing 1<sup>st</sup> edition by Dr. A.K. Khurana, MS.**

**II YEAR: PAPER 3**  
**THEATRE NURSING**

**OBJECTIVE**

To introduce knowledge in Theatre Nursing, the importance of Serilization, Auto claving, Pre-operative & Post-operative care, the care of patients during operation, knowledge of various equipments in the theatre, cleaning methods and documentation also special care to be adopted during surgery of old & incapacitated patients.

UNIT – 1	Theatre Nursing in Ophthalmology & major theatre Equipments.
UNIT – 2	Essential surgical equipments for ophthalmic surgery, needles & sutures used in ophthalmology, intraocular lenses.
UNIT – 3	Sterilization of theatre, sterilization of equipments use of chemicals.
UNIT – 4	Common surgeries in ophthalmology including use of latest laser techniques, anesthesia techniques, drugs in ophthalmology.
UNIT – 5	All about Lasik surgery

**Reference:**

- 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition  
by Sr.Nancy, MSJ.
- 2.Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod  
Lohya, MBBS,

**II YEAR: PAPER 4**  
**COMMUNITY NURSING**

**OBJECTIVE**

To introduce knowledge in Community Nursing i.e., in conducting free eye camps, vision checking camps in schools, camps and organizations.

UNIT – 1	Principles of community nursing, its importance in health care in general.
UNIT – 2	National policy on blindness, national programme on blindness care of the blind district blindness control society (eye) medical camps.
UNIT – 3	Eye camps in schools & colleges, vision screening school and all about free methodology & its importance.
UNIT – 4	Eye donors, cornea transplantation, eye care procedures.
UNIT – 5	Geriatric care & special care of the aged.

**Reference:**

1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition  
by Sr.Nancy,\_MSJ.



**II YEAR: PAPER 5**  
**PRACTICAL: GENERAL NURSING – II**

**OBJECTIVE:**

To give practical knowledge in types of Drugs it's use, and it's Administration, in General and Ophthalmic Patients in particular. Type of fluids and practical knowledge in giving Injections, IV and Eye Irrigation.

Unit -1	Introduction to Drugs used in Ophthalmology.
Unit-2	Practicals in Topical Administration, Lid Scrubs, Oral Administration, Peribulbar and Periocular Administration, Intravitreal Administration.
Unit - 3	Fluids in General, Practical in giving Intravenous Fluids, Injections and Blood taking and giving.
Unit - 4	Practical Assessment Methods. Practical Methodology on How to give Oxygen and Artificial Respiration,
Unit - 5	Practical Training in use of Various Catheters, Splinters, Eye Pads, Bandagings and Dressing.

**Reference:**

- 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition by Sr.Nancy, MSJ.
2. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod Lohya, MBBS,

**II YEAR: PAPER 6**  
**PRACTICAL: OPHTHALMIC NURSING – II**

**OBJECTIVE:**

To introduce Patients to Practical Training in the Examination, Investigation and Treatment of Ophthalmic Patients in Various Diseases.

Unit - 1	Identifying Various Eye Diseases
Unit - 2	Counselling to the patients by Various Eye Diseases
Unit – 3	Instillation of Eye drops and Eye Ointments, Cleaning and Swabbing of Eye Lids, Hot and Cold Compresses, Irrigation of Eyes, Removal and Insertion of and care of Artificial Eyes.
Unit - 4	Nursing Care of Patients – General Guidelines for Nursing Care of Ophthalmic Patients, Nursing care of partially blind and blind patients.
Unit - 5	Counselling to the patients about Prevention of diseases

**Reference:**

- 1.Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition  
by Sr.Nancy, MSJ.
2. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod  
Lohya, MBBS,
3. Ophthalmic Nursing 1<sup>st</sup> edition by Dr. A.K. Khurana, MS.

**II YEAR: PAPER 7**  
**PRACTICAL: THEATRE NURSING**

**OBJECTIVE:**

To enable Nursing Students to have Practical Training in theatre sterilization, use of various types of equipments in surgery. Assisting sisters, and visually experiencing surgery being performed.

Unit – 1	Major surgical instruments, needles, sutures.
Unit – 2	Practical training in making pads and dressing.
Unit – 3	Practical training in cleaning and sterilizing theatre. Cleaning and sterilizing instrument. Autoclaving, Automatic Sterilizer and ETO sterilization.
Unit – 4	Introduction to Major Equipment in Theatre including Lasik, Retinal Laser and their use for various types of patients.
Unit – 5	Anesthetics drugs and use of Boyle's Apparatus, attending emergencies in theatre.

**Reference:**

1. Principles and Practice of Nursing Volume I – 6<sup>th</sup> edition by Sr.Nancy, MSJ.
2. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod Lohya, MBBS

**II YEAR: PAPER 8**  
**PRACTICAL: COMMUNITY NURSING**

**OBJECTIVE:**

To introduce knowledge in Community Nursing i.e., in conducting free eye camps, vision checking camps in schools, camps and organizations.

Unit – 1	Attending free eye camps, and camps for vision screening, at colleges, schools, offices and corporate campuses.
Unit – 2	Nursing care for patients checked at Free eye camps - Practical training.
Unit - 3	Practical training of counseling for eye camps
Unit - 4	Vision checking ,Urine sugar checking.
Unit - 5	Guide to blind patients

Reference : 1. Ophthalmic Nursing 1<sup>st</sup> edition by Dr. A.K. Khurana, MS

## References for Advanced Diploma in Ophthalmic Care Management

1	Basic Anatomy and Physiology - 6 <sup>th</sup> edition by Dr. N. Murugesan, Bsc., MBBS., MS, ( Med), Phd, DH, FICS, Prof, Institution of Pharmacology. Madurai Medical College.
2	Principles and Practice of Nursing I volume 6 <sup>th</sup> edition by – Sr. Nancy, MSJ.
3	Ophthalmic Nursing 1 <sup>st</sup> edition by Dr. A.K. Khurana, MS, (London) Associate Professor, Department of Ophthalmology. Post Graduate Institute of Medical Sciences, ( Rohtak, Haryana )
4	Practical Manual of Ophthalmology 1 <sup>st</sup> edition by Dr. Vinod Lohya, MBBS, Nagpur, DOMS, (Mumbai), Consultant – Ophthalmologist, Rotary Eye Hospital, Akot.
5	English – Essential English Grammer – II Edition, by - Mr. Raymond Murphy.