

**BHARATHIAR UNIVERSITY: COIMBATORE**  
**CENTRE FOR COLLABORATION OF INDUSTRIES AND INSTITUTIONS (CCII)**  
**ADVANCED DIPLOMA IN OPHTHALMIC CARE MANAGEMENT**

(For the CCII candidates admitted from the academic year 2015-16 onwards)

**SCHEME OF EXAMINATION**

Sl.No	Study Components	Instruction Hours/ Week	Examination			
			Duration	CIA	University Exam	Total
<b>1<sup>st</sup> Semester</b>						
1.	Paper I - General English	5	3	25	75	100
2.	Paper II - General Nursing - I	5	3	25	75	100
3.	Paper III - Ophthalmic Nursing - I	5	3	25	75	100
4.	Practical I - General Nursing – I	5	3	40	60	100
5.	Practical II - Ophthalmic Nursing – I	5	3	40	60	100
<b>2<sup>nd</sup> Semester</b>						
6.	Paper IV - Anatomy & Physiology	5	3	25	75	100
7.	Paper V - Hospital Administration	5	3	25	75	100
8.	Practical III - Hospital Administration	5	3	40	60	100
<b>3<sup>rd</sup> Semester</b>						
9.	Paper VI - General Nursing - II	5	3	25	75	100
10.	Paper VII - Ophthalmic Nursing – II	5	3	25	75	100
11.	Practical IV - General Nursing – II	5	3	40	60	100
12.	Practical V - Ophthalmic Nursing – II	5	3	40	60	100
<b>4<sup>th</sup> Semester</b>						
13.	Paper VIII - Theatre Nursing	5	3	25	75	100
14.	Paper IX - Community Nursing	5	3	25	75	100
15.	Practical VI - Theatre Nursing	5	3	40	60	100
16.	Practical VII - Community Nursing	5	3	40	60	100
	<b>Total</b>					<b>1600</b>

1. **Eligibility**
  - a. Pass in +2 examination or an equivalent course
  - b. Graduates can also apply.
2. **Duration of the course**  
The course shall extend over a period of 2 Years.
3. **Practical training**  
Being practical oriented program, the focus will be more for practical training in Ophthalmology

**PAPER I****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,Auxilliary Verbs,Participles,Quantifier
UNIT – 2	Adjective, 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.  
Cambridge University Press 3<sup>rd</sup>
- 2.Intermediate English Grammer.  
Author : .Louose Hashemi with Raymond Murphy  
6<sup>th</sup> edition print -2003
- 3.Jayee’s Living English for Juniors  
Author : K.Agarvala and Father George thana  
Edition – Agarvala -2007. Revised edition.  
Publisher – Jayee’s

**PAPER 2**  
**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 & 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 & Disinfections
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.
2. Fundamentals of Nursing  
Author – B.T. Basvanthappa  
Edition – 3rd.  
Publishers – J.P. Brother Jan – 2003.
3. Fundamentals of Nursing  
Author – Annamma Manoharan  
Edition – 3rd.  
Publishers – J.P. Brothers.

**PAPER 3**  
**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. Developmental of the eye.
UNIT – 2	Optics & errors of refraction etermination 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.

**PRACTICAL I: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, Bath, Sponge Bath, and Other type Bath, Care of Perineal area
UNIT – 3	Practical in Surgical Asepsis – Disinfection, Fumigation, Sterilization, Use of Antisepsis 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 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.
2. Fundamentals of Nursing  
Author – B.T. Basvanthappa  
Edition – 3rd.  
Publishers – J.P. Brother Jan – 2003.
3. Fundamentals of Nursing  
Author – Annamma Manoharan  
Edition – 3rd.  
Publishers – J.P. Brothers.

**PRACTICAL II :OPHTHALMIC NURSING – I****OBJECTIVE**

To enable the student to carry out Nursing care in OPD as well as in – patients of all ophthalmic patients.Introducing students to basic equipments kept in OPD and practical training in eye care.

UNIT – 1	Practical training of ophthalmic patients in OPD 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.

**PAPER 4****ANATOMY & PHYSIOLOGY****OBJECTIVE**

To enable the Student Nurse to have the knowledge of the basic structure of the human body, its skeletal & organs 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 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, 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 Dr.N.Murugesh
2. Anatomy & Physiology in Health illness  
Author: Ross and Wilson  
Edition 11<sup>th</sup>  
Publisher: ELSEVIER
3. Anatomy & Physiology for nurses – 13<sup>th</sup> Edition  
Author : Rogerwatson  
Publisher : ELSEVIER  
Skeletal System – 23 – 36 Pages Dr.Murugesh  
Muscular System – 119 -121 Pages Dr.Murugesh

**PAPER 5**  
**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, Basis 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 – 4<sup>th</sup> Edition by Sr. Nancy, MSJ.
2. Principles and Practice Volume II Sr. Nancy 4<sup>th</sup> Edition (Reprint -2014)  
N.R. Publishing house
3. Nursing Administration  
Author – B.T. Basvanthappa  
Edition – 3rd.  
Publisher – Jaypee Brothers



**PRACTICAL III: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 – 4<sup>th</sup> Edition by Sr. Nancy, MSJ.
2. Principles and Practice Volume II Sr. Nancy 4<sup>th</sup> Edition (Reprint -2014)  
N.R. Publishing hon
3. Nursing Administration  
Author – B.T. Basvanthappa  
Edition – 3rd.  
Publisher – Jaypee Brothers

**PAPER 6**  
**GENERAL NURSING - II**

**OBJECTIVE:**

To give broader knowledge in Nursing care, includes types of oral drugs and its Administration. Ethical aspects of Drug Administration of fluids, including and specifying injuries to the eye. To 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 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. Fundamental of Nursing  
Author – B.T. Basvanthappa  
Edition – 3rd.  
Publishers – J.P Brothers – Jan -2003
3. Fundamental of Nursing  
Author : Annama Manoharan  
Edition – 3rd.  
Publishers – J.P. Brothers

**PAPER 7**  
**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 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.
2. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr. Vinod Lohya MBBS.

**PRACTICAL IV: 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, Practicals in giving Intravenous Fluids, Injections and Blood taking and giving.
Unit-4	Practicals 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.Fundamental of Nursing  
Author – B.T.Basvanthappa  
Edition – 3rd.  
Publishers – J.P Brothers – Jan -2003
- 3.Fundamental of Nursing  
Author : Annama Manoharan  
Edition – 3rd.  
Publishers – J.P.Brothers

**PRACTICAL V: OPHTHALMIC NURSING II****OBJECTIVE:**

To introduce Patients to Practical Training in the Examinations, 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.Ophthalmic Nursing 1<sup>st</sup> edition by Dr.A.K.Khurana.MS.
- 2.Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr.Vinod Lohya MBBS.

**PAPER 8**  
**THEATRE NURSING**

**OBJECTIVE:**

To introduce knowledge in Theatre Nursing the importance of Sterilization, 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. Hand book for Surgical ophthalmic Assistant (Operating room services) Published by Aravind eye care System 1<sup>st</sup> edition 2007.
2. Principles and Practice of Nursing Volume 1 -6<sup>th</sup> edition by Sr.Nancy.MSJ.
3. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr.Vinod Lohya.MBBS.

**PAPER 9**  
**COMMUNITY NURSING**

**OBJECTIVE:**

To introduce knowledge in Community Nursing i.e., conducting free eye camps, vision cheking 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 screeing 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. Community health Nursing 2th edition by K.Park & Park
2. Community health Nursing 1<sup>st</sup> edition  
 Author : , Georly geroge  
 Edition – 1st  
 Publishers – Jaypee
3. Text book of Community health Nursing  
 Author : Sunitha patney  
 Edition – 1st  
 Publishers – CBS

**PRACTICAL VI: THEATRE NURSING****OBEJECTIVE:**

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 instruments. 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. Hand book for Surgical ophthalmic Assistant (Operating room services) Published by Aravind eye care System 1<sup>st</sup> edition 2007.
2. Principles and Practice of Nursing Volume 1 -6<sup>th</sup> edition by Sr.Nancy.MSJ.
3. Practical Manual of Ophthalmology 1<sup>st</sup> edition by Dr.Vinod Lohya.MBBS.



### PRACTICAL VII: COMMUNITY NURSING

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. Community health Nursing 2th edition by K.Park & Park
2. Community health Nursing 1<sup>st</sup> edition  
 Author : , Georly geroge  
 Edition – 1st  
 Publishers – Jaypee
3. Text book of Community health Nursing  
 Author : Sunitha patney  
 Edition – 1st  
 Publishers – CBS

**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 volumes 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 Grammar _ II Edition, by – Mr. Raymond Murphy.