

## Details of Curriculum for Second Year Diploma in Optometry Technician

PAPER 1st Theory	Topics	Hours.
<b>1.Details of Diseases of eye.</b>	1. Common Symptoms in ophthalmology and Examination of eye.	15 Hrs
	2. Definition, Causes, s/s, investigations & management of error of refraction. (Myopia, Hypermetropia, Astigmatism, Presbyopia)	15 Hrs
	3. Definition, Causes, s/s, investigations & management of Diseases of Lacrimal apparatus. (Dacryocystitis, Lacrimal tumors, Dry eye, Watering of eye etc.)	15 Hrs
	4. Definition, Causes, s/s, investigations & management of Diseases of eyelids. (Ptosis, Lagophthalmos, blepharitis, sty, chalazion, int. hordeolum, Trichiasis, entropion, ectropion, Blepharospasm)	20 Hrs
	5. Definition, Causes, s/s, investigations & management of Diseases of Conjunctiva. (Conjunctivitis, Pterygium, Pinguecula, red eye, sub-conj. bleed)	15 Hrs
	6. Definition, Causes, s/s, investigations & management of Diseases of Cornea. (Keratitis, Corneal ulcer, Corneal opacity, keratoconus, keratoplasty)	15 Hrs
	7. Definition, Causes, s/s, investigations & management of Diseases of Sclera. (Episcleritis, Scleritis & Staphyloma)	10 Hrs
	8. Definition, Causes, s/s, investigations & management of Diseases of uvea. (Uveitis, endophthalmitis, Pan ophthalmitis)	15 Hrs
	9. Definition, Causes, s/s, investigations & management of Diseases of lens. (Cataract, Latest techniques in surgery of Cataract, Subluxation/dislocation of lens)	20 Hrs
	10. Definition, Causes, s/s, investigations & management of Diseases of Angle of AC. (Glaucoma)	20Hrs
	11. Definition, Causes, s/s, investigations & management of Diseases of Vitreous. (Vitreous haemorrhage, Vitreal opacities, Vitrectomy)	05Hrs
	12. Definition, Causes, s/s, investigations & management of Diseases of Retina (Diabetic & hypertensive retinopathy, RD, CSR, CME, Retinoblastoma, CRAO, CRVO, BRAO, BRVO Eale's disease)	20Hrs
	13. Definition, Causes, s/s, investigations & management of Diseases of Optic nerve. (Optic neuritis, papilloedema, Optic atrophy)	15Hrs

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<b>1.Details of Diseases of eye.</b>	14. Destructive surgeries of eyeball	05Hrs
	15. Definition, Causes, s/s, investigations & management of Diseases of Strabismus	10Hrs
	16. Definition, Causes, s/s, investigations & management of Diseases of Orbit. (Ptosis, Orbital fracture, Orbital cellulitis)	05Hrs
	17. Community ophthalmology (Blindness, Various programmes related of blindness)	05Hrs
	18. Miscellaneous Vitamin A deficiency, Low vision aids, first aid in Ocular Injuries.	10Hrs
	19. Definition, Causes, s/s, investigations & management of Amblyopia	10Hrs
	20. Color blindness	05Hrs

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<b>PAPER 1st Theory</b>	<b>Topics</b>	<b>Hours.</b>
<b>2.Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion.</b>	1. Temperature monitoring & Fever.	02 Hrs
	2. Pulse monitoring.	02 Hrs
	3. BP monitoring.	02 Hrs
	4. Respiration monitoring.	01 Hrs
	5. Types of Injection routes.	01 Hrs
	6. IM Injection.	01 Hrs
	7. IV Injection.	01Hrs
	8. SC Injection.	01 Hrs
	9. Oxygen Therapy.	03 Hrs
	10. Nebulization	03 Hrs
	11. IV Infusion (Also with infusion pump).	01 Hr
	12. Care of Unconscious patient.	02 Hrs

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<b>PAPER 2nd Theory</b>	<b>Topics</b>	<b>Hours.</b>
<b>1.Mechanical optics and Lenses, Lenses prescription.</b>	1.A Brief History of Ophthalmic Lenses, Spectacles	05 Hrs
	2.Terms Used in Lens Workshop	05Hrs
	3.Ophthalmic Lens Material	20Hrs
	4.Lens Standard	10Hrs
	5.Ophthalmic Lens Blank Manufacture- Glass & Plastic	20Hrs
	6.Ophthalmic Prescription Lens Making	20Hrs
	7.Lens Defects	10Hrs
	8.Ophthalmic Lens Designs	20Hrs
	9.Types of Ophthalmic Lenses : Aspheric, High Index, Multifocal, Bifocal & Trifocal Lenses, Photo Chromatic Lenses, Polaroid Lenses, Tinted Lenses, Protective Lenses.	30Hrs
	10.Spectacles Frames: History, Nomenclature & Terminology, Classification.	10Hrs
	11.Types of Frame Material	10Hrs
	12.Types of Human Faces, Choice of Frames	10Hrs
	13.Cosmetic & Functional Dispensing of Spectacles	10Hrs
	14.Measurement for Ordering Spectacles : IPD, VD	10Hrs
	15.Special Measurement for Fitting Special Types of Lenses	10Hrs
	16.Fitting of Lenses in Various Types of frames	10Hrs
	17.Spectacles Intolerance	10Hrs
	18.Special types of Spectacles	10Hrs
	19.Dispensing of Prisms, Prismatic effect of lens	20Hrs
	20.Contact Lenses	20Hrs
	21.Low Vision Aids	10Hrs
	22.Magnification by Lenses	20Hrs

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<b>PAPER 2nd Theory</b>	<b>Topics</b>	<b>Hours.</b>
<b>2.Instruments and equipments used in eye.</b>	1.Refractrometer	10Hrs
	2.Lensometer	05Hrs
	3.Keratometer	05Hrs
	4.Ophthalmoscope	10Hrs
	5.Slit Lamp	10Hrs
	6.Corneal Loupe	05Hrs
	7.Operating Microscope	05Hrs
	8.Perimeter	03Hrs
	9..Tonometer	05Hrs
	10.Gonioscope	03Hrs
	11.Pachymeter	02Hrs
	12.Exophthalmometer	02Hrs
	13.ERG, EOG, VER	05Hrs
	14.Orthoptic instruments like synoptophore etc	15Hrs
	15.A and B scan	05Hrs
	16.Retinoscopes	05Hrs
	17.Ishihra Chart	05Hrs

<b>PAPER 2nd Theory</b>	<b>Topics</b>	<b>Hours.</b>
<b>3.Community ophthalmology.</b>	Introduction	03Hrs
	National Programme for Control of Blindness	17Hrs
	National Immunization Programme	10Hrs
	Blindness : Causes and its Prevention	20Hrs

<b>PAPER 2nd Theory</b>	<b>Topics</b>	<b>Hours.</b>
<b>4.Drugs used in Optometry.</b>	1. Topical NSAIDS.	05Hrs
	2. Topical Steroids.	05Hrs
	3. Anti Glancoma drugs.	10Hrs
	4. Anti VEGF drugs.	05Hrs
	5. Cycloplegics & Mydriatics.	10Hrs
	6. Drugs used in dry eye.	10Hrs
	7. Dyes used in ophthalmology.	05Hrs
	8. Topical Antimicrobials.	10Hrs

Curriculum  
for  
Practical :- Second Year  
Diploma in Optometry Technician

Practical	Topics
	<ul style="list-style-type: none"> <li>Hands on training of slit lamp biomicroscope examination.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Gonioscopy.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Applanation tonometry.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Syringing.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Perimetry.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Keratometry, A scan.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of B Scan.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Direct ophthalmoscopy.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Indirect Ophthalmoscopy.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of assistance in Common Ocular surgeries.</li> </ul>
	<ul style="list-style-type: none"> <li>Hands on training of Fundus Camera &amp; FFA.</li> </ul>