SUMANDEEP VIDYAPEETH

(Declared as Deemed to be University under Section 3 of the UGC Act 1956) Accredited by NAAC with a CGPA of 3.53 out of four-point scale at 'A' Grade At & Post Piparia, Tal: Waghodia 391760 (Gujarat) India. Ph: 02668-245262/64/66, Telefax: 02668-245126, Website: www.sumandeepvidyapeethdu.edu.in Deemed to be Universit Estd. 2007 Vadodara ह्या विनयन श Attested CTC CURRICULUM 2 202 Vice-Chancellor Sumandeep Vidyapeeth An Institution Deemed to be University Diploma Vill. Piparia, Taluka: Waghodia. in Dist. Vadodara-391 760. (Gujarat) **OPHTHALMIC ASSISTANT**

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2016



INTRODUCTION

Scope

The quality of paramedical care has improved tremendously in the last few decades due to the advances in technology, thus creating fresh challenges in the field of healthcare. It is now widely recognized that health service delivery is a team effort involving both clinicians and non-clinicians, and is not the sole duty of physicians and nurses. Professionals that can competently handle sophisticated machinery and advanced protocols are now in high demand. In fact, diagnosis is now so dependent on technology, that paramedical and healthcare professionals are vital to successful treatment delivery.

Effective delivery of healthcare services depends largely on the nature of education, training and appropriate orientation towards community health of all categories of health personnel, and their capacity to function as an integrated team, with a range of skills and expertise, play key roles within the National Health Service, working autonomously, in multi-professional teams in various settings. All of them are first-contact practitioners and work across a wide range of locations and sectors within acute, primary and community care.

Learning goals and objectives for paramedical healthcare professionals

The learning goals and objectives of the undergraduate and graduate education program will be based on the performance expectations. They will be articulated as learning goals (why we teach this) and learning objectives (what the students will learn). Using the framework, students will learn to integrate their knowledge, skills and abilities in a hands-on manner in a professional healthcare setting.

Program outcomes

- To carry out all routine diagnostic / therapeutic test on modern hospital laboratory
- To train the students to assist the Eye care practioners
- To acquire knowledge of certain techniques to carry out early detection of Visual defects.
- To train the student in Power checking, Ophthalmic Lens Grinding, Manufacturing Units etc.

Ethics and accountability

Students will understand core concepts of clinical ethics and law so that they may apply these to their practice as healthcare service providers. Program objectives should enable the students to:

Describe and apply the basic concepts of clinical ethics to actual cases and

 Recognize the need to make health care resources available to patients fairly, equitably and without bias, discrimination and due influence

a demonstrate an understanding and approximation of basic legal concepts to the practice

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- Employ professional accountability for the initiation, maintenance and termination of patient-provider relationships
- Demonstrate respect for each patient's individual rights of autonomy, privacy, and confidentiality

Commitment to professional excellence

The student will execute professionalism to reflect in his/her thought and action a range of attributes and characteristics that include technical competence, appearance, image, confidence level, empathy, compassion, understanding, patience, manners, verbal and non-verbal communication, an anti-discriminatory and non-judgmental attitude, and appropriate physical contact to ensure safe, effective and expected delivery of healthcare.

Eligibility criteria: HSC or 12th Qualified with Science Stream

Duration: 2 years +1 year Internship

Medium of instruction:

English shall be the medium of instruction for all the subjects of study and for examination of the course.

Attendance

A candidate has to secure minimum 80% attendance in overall with at least-

- 1. 75% attendance in theoretical
- 2. 80% in Skills training (practical) for qualifying to appear for the final examination.

No relaxation, whatsoever, will be permissible to this rule under any ground including indisposition etc.

Assessment:

Assessments should be completed by the academic staff, based on the compilation of the student's theoretical & clinical performance throughout the training programme. To achieve this, all assessment forms and feedback should be included and evaluated. Student must attain at least 50% marks in each Theory, Internal assessment and Practical independently / separately for each individual subject.

COURSE OF INSTRUCTION

Course Name	Course Code	Theory (In hrs.) (Class and lab)	Practical (In hrs.) (Clinical)						
First Year - Total Hours 700									
Basic medical science- ophthalmology	DOA101	250	100						
		Total 250	100						
Second Year - Total Hours 1100									
Ophthalmic Equipments and techniques	DOA201	600	200						
		Total 600	200						

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SCHEME OF EXAMINATION

Course			Course	Assessment						
			Code	Hours	Internal	External	Total			
First Year										
			DOA101	3	100	200	300			
Basic medical science-ophthalmology										
Total					100	200	300			
Second Year										
Ophthalmic	equipments	and	DOA201	3	100	200	300			
techniques										
Total					100	200	300			

FIRST YEAR DIPLOMA IN OPTHALMIC ASSISTANT

PAPER-I: BASIC MEDICAL SCIENCE-OPHTHALMOLOGY DOA101 (250 HOURS)

Syllabus Contents:-

Basic science (including human physiology, pharmacy, and microbiology) is relation to clinical ophthalmology.

Anatomy and Physiology-

- Human anatomy with special reference to special senses.
- Parts of the body
- Organs of special senses
- Orbit and ocular adenexa (lid and lacrimal system)
- Ocular muscles and cranial nerves
- Gross anatomy of coats of eyeball (cornea, sclera, uvea, retina, lens and vitreous)

Physiology of eyeball-

- Physiology of vision including colour vision
- Ocular movements& binocular vision
- Accommodation and convergence
- Formation and circulation of aqueous& lacrimal fluids

Microbiology

- Introduction to the various organisms responsible for ocular diseases (bacteria, virus and
- Fungi)
- Techniques of conjuctival smears, cultures, scrapings and staining (grams and KOH)
- Infections and its prevention-routes, gross infection and antisepsis and asepsis

Clinical pathology

Attostedamination of urine-gross albumin and sugar

• Preparation and staining of blood slides for DLC and malarial parasites

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- Various methods of administration of drugs in ophthalmic diseases
- Preparation and dispensing of various ophthalmic drugs including fluorescence, mercurochrome, sodium sulphacetamide, homatropine, atropine, pilocarpine and antibiotic drops
- Various side reactions of common ophthalmic drug and drug abuses.
- Ocular anaesthetics
- Miotics and mydriatics

PRACTICALS: 100 HOURS

SECOND YEAR DIPLOMA IN OPTHALMIC ASSISTANT

OPHTHALMIC EQUIMENTS AND TECHNIQUES DOA201 (250 HOURS)

I.Vision testing.

- Various components of vision, principles of testing for visual acuity.
- Lecture demonstration of distant vision, near vision and colour vision [Ichihara]

2 Visual fields:

- Lecture and 5 demonstrations
- Examination.
- 3. Ophthalmic instruments:
 - Name, uses and maintenance of surgical instruments.
 - Laying of trolley for surgery [CATARACT, glaucoma, style, pterygium, chalazion, entropion,
 - and squint.
 - Maintenance of surgical instruments.
- 4. Ocular surgery, fundamental of asepsis technique:
 - Asepsis, fumigation and sterilization of instruments.
 - Making of swabs sticks, pads and packing of drums and autoclaving.
- 5. Ophthalmic diagnosis equipment [maintenance]:
 - Trail set, slit lamp, focimeter.
 - Synoptophore, keratometer, retinoscope and ophthalmoscope.
 - Examination.
 - Use of lensometer and neutralisation of lenses.
 - Transposition of lenses.

• Fitting and check-up of spectacles.

- Maintenance of tonometer.
- Minor surgical procedures:

Installation of eye drops and subs tion etc.

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- Fomentation.
- Irrigation.
- Epilation.
- Syringing.
- Setting up of iv drip. Ryle's tube and enema.
- EMERGEN CY RESUSCITATION: general and ophthalmic.

PRACTICALS: 200HOURS

PAPER-III: OPTICS AND REFRACTION

- Syllabus Contents:-
- Physics & optics.
- Law of refraction & reflection spherical & cylindrical surfaces.
- Optical aberrations of ophthalmic glasses.
- Prisms
- Geometrical & physiological optics.
- Optics of human eye and refractive errors.
- Myopia, hypermetropia & its correction.
- Aphakia its correction.
- Astigmatism, presbyopia& its correction.
- Lecture demonstration on measurement of accommodation & convergence.
- Ophthalmic lenses.
- Decentring, bifocals, segment heights & transposition of lenses.
- Contact lenses- uses and abuses.
- Checking of spectacles.

PAPER-IV: COMMON OCCOLAR DISEASE AND COMMUNITY

OPHTHALMOLOGY

- Common eye diseases.
- Types of conjunctivitis including trachoma.
- Corneal ulcers & opacities.
- Iritis& cataract.
- Lids & lacrimal sac and eye emergencies.
- Chemical &radiotional injuries including prevention, first aid & treatment.
- Mechanical injuries, prevention first & treatment.
- Glaucoma.
- Recognition & diagnosis.
- Topometry methodology & precautions.
- Role of ophthalmic assistant in early detection and follow up of glaucoma cases.
- Squint.
- Nomenclature, classification & measurement.
- Cover test, Maddox rod, madoz wing & diplopia charting.
- Uses of synoptophore& exercises.

AttestAbbyopia with special emphasis on prevention.

- Assessment of binocular vision.
- Systemic disorders.

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- Nursing care of ophthalmic patients.
- Pre-operative preparation, cutting or lashes, preparation eye and ocular bandaging.
- Bed making and laying trolley for dressing.
- Medical records.
- Diseases index, alphabetic index, and numerical index major & minor surgical records.
- Health education.
- National plan for control of blindness.
- Screening of school children for eye problems.
- Survey methodology.
- Functioning of eye bank(collection, preservation, transportation & publicity)
- Rehabilitation of blind & vocational training for blind.
- Role of ophthalmic assistants in eye camps.
- Examination(final assessment)

CODE OF PROFESSIONAL CONDUCT

INTRODUCTION

The Code of Professional Conduct is designed and set out as guidance for the clinical practitioner within the relationship that exists with every patient receiving health care.

Essential to that relationship is the patient's trust in the practitioner. This trust hangs upon the patient's assurance of being the practitioner's first concern during their clinical encounter, and upon the patient's confidence that the care received will be competent, whether in diagnosis, therapy or counseling.

STANDARD OF PRACTICE AND CARE

Patients are entitled to the highest standard of practice and care. The essential elements of this are professional competence, good relationships with patients and colleagues and observance of professional ethical obligations.

In providing care you must therefore:

- Recognize the limits of your professional competence.
- Be willing to consult colleagues
- Keep clear, accurate and contemporaneous patient records which report the relevant findings.
- Keep colleagues informed.
- Pay due regard to the efficacy and the prudent use of resources.
- Be competent, truthful, and accurate, when reporting on investigations.
- Be competent when giving or arranging treatment.

Attested rights



- Treat patients politely and considerately.
- Respect patients' privacy and dignity.
- Give information to patients in a way they can understand.
- Respect the right of patients to be fully involved in decisions about their care.
- Respect the right of patients to refuse treatment or to take part in teaching or research, reporting the refusal to the person requesting the procedure.
- Respond to complaints promptly and constructively.
- Ensure that your views about a patient's life style, culture, beliefs, race, color, sex, sexuality, age, social status, or perceived economic worth, do not prejudice the service you give.

CONFIDENTIALITY

Patients have a right to expect that you will not pass on any personal information which you learn in the course of your professional duties, unless they agree.

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