

SYLLABUS OF DENTAL HYGIENISTS

III. SYLLABUS FOR THE DENTAL HYGIENISTS COURSE PRIMARY (1st YEAR)

(1) ANATOMY, GENERAL AND DENTAL

Lectures

General structure of mucous membrane (tongue, pharynx, lips), bones, muscles, blood vessels, lymphatics, glands & nerves. Blood and nerve supply in relation to face in general and teeth and associated structures in particular.

Elementary knowledge of development of the jaws and teeth.

Structure, nomenclature and morphology of human teeth.

Eruption, resorption & occlusion of teeth.

Relationship of teeth with investing tissues.

Muscles of mastication and facial expression.

Temporomandibular Articulation.

Course and distribution of Vth and VIth Cranial nerves.

Practical

Osteology of head and neck in general and face, including jaws in particular.

Morphology of teeth.

Alveolar process of jaw bones.

Section of tooth in situ.

(2) PHYSIOLOGY & HISTOLOGY, GENERAL & DENTAL:

Lectures

Cell structure of the human body.

Brief description of the histology and function of various dental and oral tissues e.g. Gingiva, Periodontal membrane, Alveolar process, Cementum, Enamel Dentine, Nasmyth's membrane, Pulp etc

Salivary glands, ducts and their functions.

Composition and function of Saliva.

Blood: Composition & functions.

Mastication, deglutition & Phonation.

General outlines of the physiological processes of the human body—particularly circulatory.

Practical

Study of prepared histological slides of oral and dental tissues, sections of a tooth.

Routine blood examination.

(3) PHARMACOLOGY, GENERAL & DENTAL:

Lectures

Brief description, nomenclature, derivation, dosage, pharmacological action and therapeutic uses of drugs commonly used in dentistry (Obtundent, astringent, mouth wash, antiseptics).

Practical

Preparation of gum paints, mouth washes and dentifrices.

(4) PATHOLOGY & MICROBIOLOGY, GENERAL AND DENTAL:

Lectures

General principles of Pathology-

Inflammation, degeneration and repair.

Application of general principles of pathology to tooth and surrounding tissues.

Dental Anomalies.

Attrition, Abrasion and Erosion.

Oral manifestation of systemic diseases like diabetes, syphilis, anaemia, vitamin deficiencies and infectious diseases like AIDS & Hepatitis B.

Infection Control in Dental Operatory and Bio-Medical Waste Management and Handling.

Neoplasm with reference to oral cavity.

Elementary knowledge of Bacteriology, Asepsis, Infection, Immunity, Brief description of Pathology and Bacteriology of Dental Caries and Gingival infections.

Practical

Study of prepared pathological and bacteriological slides relating to oral and dental conditions.

Clinical demonstration of oral and dental manifestation of systemic disorders.

(5) DENTAL RADIOLOGY:

Lectures

Fundamental and elementary principle of Dental Radiology including X-Ray machine, its components and maintenance.
Basic knowledge of Radio Visio Grapy technique & extra oral radiographs including Panoramic (Ortho-pantographs and cephalostats).
Automatic Film processing.
Cataloging & Indexing of IOPA Films.
Knowledge of occlusal, bitewing and digital radiography
Technical aspects of Dental Radiographs i.e. the taking, processing and mounting of Dental Radiographs.
Characteristics of acceptable image, factors that influence finished radiographs, rules of radiation protection. Radiation Hazards.

Practical

Taking, processing and mounting of Intra & Extra Oral Radiographs.

(6) FOOD AND NUTRITION:

Lectures and Practicals

Basic 'food chemistry' in relation to general and Oral Health.
Physical nature of diet in prevention of dental diseases.
Carbohydrates, fats, proteins, vitamins, minerals and water in relation to dental and oral Health.
General food requirements for growth, maintenance and repair of the body.
Assessment & charting of individual diet & Counselling.
Effect of malnutrition on oral health.
Special diet and its administration in maxillofacial injury cases.

(7) DENTAL HYGIENE AND ORAL PROPHYLAXIS (Primary and Final)

Lectures

Definition of Hygiene.
Objectives of Dental Hygiene.
Oral Prophylaxis-Variou methods.
Oral Prophalaxis:treatment system.
Stains on teeth-extrinsic, intransic and their management.
Dental plaque.
Brushing & Flossing Technique
Dental Calculus
Technical knowledge of ultrasonic scaling
Brief description and the role of Oral Prophylaxis in Gingivitis, Periodontitis, Periodontal and Alveolar abscess.

Clinical

Instruments, technique of Oral Prophylaxis
Destaining and polishing of teeth.
Topical application of fluorides.
Care of oral cavity and appliances during treatment of maxillofacial cases

SYLLABUS FOR THE DENTAL HYGIENISTS COURSE FINAL (II YEAR)

1) DENTAL HYGIENE AND ORAL PROPHLAXIS:

Combined courses at para 7 above (as mentioned in 1st year (primary) above)

2) DENTAL HELATH EDUCATION, COMMUNITY PUBLIC HEALTH DENTISTRY & PREVENTIVE DENTISTRY:

Lectures

Definition of Health and Dental Health.
Aims and objectives of Dental Health Education.
Dental health and Children.
Steps in preventive program, patient counselling.
Dental Health Education-Parents, mothers (anti and post-natal), infants pre-school.
Children and grownup Handicapped children.
Dental caries-Prevalence and Prevention.
Prevention by flouridation.
Periodonatal Diseases.

Saliva in relation to dental health and disease.

Dietary habits and Dental Health.

Habits and Malocclusion.

Oral Cancer.

Brief outline of historical background of Public Health, History of dentistry and Public Health Services. Dental Health Team in relation to community health.

Technical Knowledge of Topical Fluoride Application.

Practical

Preparation of models of jaws and teeth-normal and pathological dental conditions.

Designing, drawing and painting of posters on dental health education.

Procedure for arranging short talks, skits and features on dental and oral health, visual aids.

Collection of Oral Health related statistics by conducting a small survey of an area.

3) DENTAL ETHICS, JURISPRUDENCE AND ORIENTATION IN DENTISTRY

Lectures & Practical

Difference between ethics and law, types of law.

Legal impositions in relation to dental practice, code of ethics.

Unlicensed practice of dentistry.

Regulatory and professional organisation.

Place and function of dental profession in the society and discussion of economic problems involved therein.

Social factors in Dental Progress, income and living standard of people.

Objective and scope of dentistry.

Dental specialities.

4) BASIC KNOWLEDGE OF COMPUTER

General office routine economics, record-keeping services, Professional referrals and computing skill;

5) DENTAL MATERIALS

Lectures and Practical

General knowledge of various material used in Dentistry such as impression material, gypsum products, waxes, investing materials and various filling materials, Temporary and Permanent cements, orthodontic material and implant materials, materials used in maxillofacial and surgical prosthesis.

Recognition and knowledge of various dental equipment and stores used in dental establishment.

Organisation of dental stores, storage and accounting, handling and maintenance of dental items, assembly and minor repair of dental equipment.