

**DIPLOMA IN DENTAL
HYGIENE (DDH)
TWO YEARS COURSE**

SYLLABUS FOR THE DIPLOMA IN DENTAL HYGIENE COURSE (1ST YEAR)

DENTAL ANATOMY, RADIOLOGY & ORAL PATHOLOGY

(1) DENTAL ANATOMY

Lectures

General structure of mucous membrane (Tongue, pharynx, lips) bones, muscles, blood vessels, lymphatic, 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.

Tempromandibular 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) 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 and Extra Oral Radiographs.

(3) ORAL PATHOLOGY

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 and 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.

DENTAL HYGIENE & ORAL PROPHYLAXIS

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

Lectures

Definition of Hygiene

Objectives of Dental Hygiene

Oral Prophylaxis- various methods

Oral Prophylaxis- treatment system

Stains on teeth – extrinsic, intrinsic 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, techniques of Oral Prophylaxis

Destaining and polishing of teeth

Topical application of fluorides

Care of oral cavity and appliances during treatment of maxillofacial cases.

DENTAL MATERIALS & HEALTH EDUCATION

(1) 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.

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

Recommended books for Diploma in Dental Hygiene

1.	Wheeler's Dental Anatomy, Physiology and Occlusion, 1st South Asia Edition	Stanley J. Nelson DDS MS	Elsevier Publication
2.	Textbook of Oral Medicine, Oral Diagnosis and Oral Radiology	Ravikiran Ongole, Praveen B N	Elsevier Publication

3.	Shafer's Textbook of Oral Pathology	Arya Rajendran, B Sivapathasundharam	Elsevier
4.	Textbook of Oral Pathology	Sushruth Nayak	Paras Medical Publisher
5.	Phillips Science of Dental Materials	Kenneth J. Anusavice	Elsevier
6	Science of Dental Materials: Clinical Applications	Shama V. Bhat	CBS Publishers & Distributors
7	Essentials of Medical Pharmacology	KD Tripathi	Jaypee Brothers,Medical Publishers Pvt. Limited
8	Pharmacology for Dentistry	Tara Shanbhag, Smita Shenoy, Veena Nayak	Elsevier

(2) HEALTH EDUCATION

Lectures

Definition of Health and Dental Health.
 Aims and objectives of Dental Health Education
 Dental health and children.
 Steps in preventive program, patient counseling.
 Dental Health Education – parents, mothers (anti and post-natal), infants preschool.
 Children and grownup handicapped children
 Dental caries – prevalence and prevention
 Prevention by fluoridation.
 Periodontal 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 small survey of an area.

PHARMACOLOGY ESSENTIAL DRUGS OF WHO

(1) PHARMACOLOGY

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 dentifirices

(2) ESSENTIAL DRUGS OF WHO

Lectures

Definition of Essential Drugs

Aims and objectives of Essential Drugs

Concept of Essential Drugs and Essential Drugs list in India

Steps for management of Essential Drugs Programme

Sources of Essential Drugs and its uses

Precautions of essential medicine

OTC Drugs meaning and example

Practical

Preparation of essential drugs list according to WHO

SYLLABUS FOR THE DIPLOMA IN DENTAL HYGIENE COURSE (2ND YEAR)

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, Nasmyths membrane, pulp etc.

Salivary glands, ducts and their functions

Composition and function of Saliva

Blood : Composition and 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.

FOOD AND NUTRITION

Lectures and practical

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 & Counseling.

Effect of malnutrition on oral health.

Special diet and its administration in maxillofacial injury cases.

DENTAL ETHICS, JURISPRUDENCE AND ORIENTATION IN DENTISTRY

Lectures and 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 organization

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 specialties

(3) BASIC KNOWLEDGE OF COMPUTER

General office routine economics, record keeping services, professional referrals and computing skill