**DIPLOMA IN DENTAL LAB TECHNICIAN 1ST YEAR**

**DENTAL ANATOMY, RADIOLOGY AND ORAL PATHOLOGY**

General structure of mucous membrane , bones, muscles, blood vessels, lymphatic’s, glands and nerves, blood and nerve supply in relation to face in general and teeth and associated structures in particular

Elementary knowledge of development of the jawa and teeth structure, nomenclature and morphology of human teeth

Relationship of teeth with investing tissues

**DENTAL MATERIAL AND HEALTH EDUCATION**

Brief description

Nomenclature

Derivation

Dosage

Pharmacological action and therapeutic uses of drugs commonly used in dentifrices

**PHARMACOLOGY ESSENTIAL DRUGS OF WHO**

Acquisition of knowledge about the effect of drugs on badly systems, with a special emphasis on drug treatment I dentistry

Introduction to pharmacology and pharmacokinetics

Pharmacokinetics routs of administration and presentation of drugs

Familiarity with the autonomic nervous system,

Cholinergic agonists and antagonist

Adrenergic agonists and antagonist

Drugs of diabetes

Antihistamines

Drugs for allergies and asthma

Local anesthetics

Opiate analgesics

NSAID analgesics

Tranquillizers

Antidepressants

Cardiologic drugs

Drugs for hypertension and angina pectoris

Treatment of heart failure

Treatment of arrhythmias

Antibacterial drugs

Anticoagulants

Vitamins

Names of drugs

Analgesic drugs

Antibiotic drugs

Anesthetics

Reading labels

Sedation- emphasis on inhalation sedation

Gas

Steroids

**DENTAL HYGIENE AND ORAL PROPHYLAXIS**

Definition of hygiene

Strains on teeth- extrinsic, intrinsic and their management

Brief description and the role of oral prophylaxis in gingivitis, peritonitis, periodontal and alveolar abscess, steatites gingivitis and paradonotosis

Instruments, technique of oral prophylaxis distaining and polishing of teeth

Topical application of fluorides

Care of oral cavity and appliances during treatment of maxillofacial cases

**DIPLOMA IN DENTAL LAB TECHNICIAN 2ND YEAR**

**RADIOLOGY, FOOD & NUTRITION**

Radiological interpretation, reading an x-ray Diagnosis interpretation

Introduction

Fundamental and elementary principle of dental radiology

Types of radiographs

Methods of imaging

Technical aspects of dental radiographs i.e. the taking, processing and mounting f dental radiographs

Interpretation of radiographs

Basic food chemistry in relation to geberal and oral health

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 mal- nutrition on oral health

**DENTAL MATERIAL, GENERAL AND ORAL PATHOLOGY, BACTERIOLOGY**

Amalgam, resins and their products material for temporary fillings, bases liners cements impression materials

Pathology of the salivary gland, dryness of the mouth, autoimmune diseases connected to the salivary glands

Cysts of development/ odontogenic origin

Disorders of blood flow

Pathology of the dental tissues

Pathology of the pulp

Dentigerous lesions

Oral lesions that are connected to dermatology

Pathology of the salivary glands

Oral pathology in children

Inflammation, degeneration and repair

Application of general principles of pathology to tooth and surrounding tissues

Attrition, abrasion and erosion

Oral manifestation of systemic diseases, like diabetics, syphilis, anemia, vitamin deficiencies and infection diseases

Elementary knowledge of bacteriology, asepsis, infection, immunity, brief description of pathology and bacteriology of dental caries and gingival affections

**ORAL HYGIENE, IMPRESSION METHODS, PERIOD ONTOLOGY**

Initial steps in preventive planning, modes of prevention, materials and accessories, indices, educational principles

Toothbrushes

Solutions for demonstrating

Additional ways and accessories for completing

Various methods of brushing

Tooth brushing properly

Implants and their maintenance

Maintenance after surgery in the oral cavity

**COMMUNITY DENTISTRY, PREVENTIVE DENTISTRY, DENTAL CARES**

Historical survey of the profession

Introduction to preventative dentistry, steps in a preventative dentistry program

Modes of prevention and ways and accessories for maintaining a healthy mouth

Toothbrush and worthwhile methods of bruising solution for demonstrating

Various methods of brushing

Additional ways and accessories for completing tooth brushing properly

Plaque index- all sorts of methods

Toothpastes

Mouth washes

Electric devices and accessories

Steps in the preventive dentistry program, educational principles

Guidance for the individual patient

The rehabilitation patient

The orthodontic patient