



HIMALAYAN UNIVERSITY, ARUNACHAL PRADESH

DIPLOMA IN PARAMEDICAL SCIENCE

(DENTAL TECHNICIAN & HYGIENE)

1st YEAR

1st Semester

S. NO.	SUB. CODE	SUBJECT NAME	MARKS			
			INTERNAL	THEORY	TOTAL	PASS
1	101	Introduction of Anatomy and Physiology	30	70	100	40
2	102	Human Path physiology	30	70	100	40
3	103	General and Oral Microbiology	30	70	100	40
4	104	Practical	30	70	100	40

2nd Semester

S. NO.	SUB. CODE	SUBJECT NAME	MARKS			
			INTERNAL	THEORY	TOTAL	PASS
1	201	Advanced Anatomy and Physiology	30	70	100	40
2	202	Dental and Orofacial Anatomy	30	70	100	40
3	203	Dental Hygiene Process	30	70	100	40
4	204	Practical				

2nd YEAR

3rd Semester

S. NO.	SUB. CODE	SUBJECT NAME	MARKS			
			INTERNAL	THEORY	TOTAL	PASS
1	301	Oral Histology and Embryology	30	70	100	40
2	302	Periodontics for the Dental Hygienist	30	70	100	40
3	303	Pre-Clinical Dental Hygiene	30	70	100	40
4	304	Dental Radiography for the Dental Hygienist	30	70	100	40
4	305	Practical	30	70	100	40

4th Semester

S. NO.	SUB. CODE	SUBJECT NAME	MARKS			
			INTERNAL	THEORY	TOTAL	PASS
1	401	Introduction to the Dental Hygiene Profession	30	70	100	40
2	402	Oral Pathology	30	70	100	40
3	403	Professional Practice and Jurisprudence	30	70	100	40
4	404	Role of the Dental Hygienist in Orthodontics	30	70	100	40
5	405	Practical	30	70	100	40

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DIPLOMA IN PARAMEDICAL SCIENCE

(DENTAL TECHNICIAN & HYGIENE)

1st YEAR

1ST SEMESTER

Introduction of Anatomy and Physiology (101)

Introductory Concepts

This course is the study of normal anatomy and physiology beginning with an Orientation to the body and continuing through the cell, and four of the major systems: The integumentary system, the musculoskeletal system, the nervous system and the Endocrine system an introduction to microbiology is included. Three unifying themes, The interrelationships of body organ systems, homeostasis, and the complementarities Of structure and function, will provide the basis of understanding the workings of the Human body

Human Path physiology (102)

This area will be an introduction to human disease and will focus on the fundamental principles of homeostatic mechanisms. The student will explore how alterations in homeostatic mechanisms will disrupt the human body. Mechanisms of disease will be studied by systems and will be examined for the effect that they produce on the structure and function of the body. Common diseases will be used to illustrate concepts. P- BIOL1001 Anatomy and Physiology - Introductory Concepts and P- BIOL1002 Anatomy and Physiology - Advanced Concepts and C- DENT2018 Dental Hygiene Clinical – Intermediate

General and Oral Microbiology (103)

The student will study groupings of micro-organisms starting with the general Characteristics of morphology and growth The role these micro-organisms play in the Initiation and progression of human diseases will be considered as well as modes of Disease transmission and the necessity for infection control procedures within dental Settings the student will be introduced to the microbiology of the oral cavity and its Relationship to common dental/oral diseases

Practical (P) (104)

2ND SEMESTER

Advanced Anatomy and Physiology (201)

This course is the study of normal anatomy and physiology of the human body. It is a study of the following major body systems: circulatory system, lymphatic system, respiratory system, urinary system and reproductive system. Three unifying themes, the interrelationships of body organ systems, homeostasis, and the complementarities of structure and function, will provide the basis of understanding the workings of the human body. P- BIOL1001 Anatomy and Physiology - Introductory Concepts

Dental and Or facial Anatomy (202)

This course discusses the oral anatomic landmarks and establishes an understanding of the relationship between structure and function. The student will learn detailed anatomy of the teeth and the relationships between the structures in and around the mouth, including the skull, muscles of mastication, blood vessels, nerves, salivary glands and oral soft tissues.

Dental Hygiene Process (203)

This course discusses the oral anatomic landmarks and establishes an understanding of the relationship between structure and function. The student will learn detailed anatomy of the teeth and the relationships between the structures in and around the mouth, including the skull, muscles of mastication, blood vessels, nerves, salivary glands and oral soft tissues.

Practical (P) (204)

2nd YEAR

3RD SEMESTER

Oral Histology and Embryology (301)

In this course the student studies normal development of the oral cavity and facial complex and the influence of diseases on normal development. A histological background is provided for the development of bone, cartilage, teeth, oral mucosa, tongue, temporomandibular joint, the periodontium, and salivary glands. This knowledge provides the foundation for further study of developmental disturbances and histological changes in oral diseases. P- DENT1014 Dental and Oral facial Anatomy and C- DENT1016 Dental Hygiene Process

Periodontics for the Dental Hygienist (302)

In this course the student will study the histology, physiology, and pathology of those tissues that surround and support the teeth. The student will learn about the disease process affecting the periodontal tissues and the fields of preventive and therapeutic periodontics with emphasis on the clinical role of the dental hygienist. P- DENT1013 General and Oral Microbiology and P- DENT1016 Dental Hygiene Process and P- DENT1019 Oral Histology and Embryology and C- DENT2017 Introduction to Dental Hygiene Clinical Practice

Pre-Clinical Dental Hygiene (303)

This is an introductory course integrating the theory and practice of specific dental hygiene skills; in particular assessment skills, positioning and infection control. Students will apply these concepts during preclinical and dental materials lab sessions. In addition, students will develop an awareness of WHMIS and equipment maintenance and the importance of protecting the environment by

responsible use of consumables and safe disposal of waste products’- DENT1014 Dental and Or facial Anatomy

Dental Radiography for the Dental Hygienist (304)

This course prepares the student to take and process acceptable dental radiographs. The student learns the basic principles of radiation production and safe operation of the dental x-ray unit. Additional instruction will be provided in recognizing and solving problem situations, client management and identification of normal anatomic landmarks and developmental disturbances. Students will expose dental radiographs using bisecting angle and paralleling techniques and manage waste to minimize impact on environments- DENT1014 Dental and Or facial Anatomy and (P- DENT1044 Pre-Clinical Dental Hygiene or P- DENT1015 Preclinical Dental Hygiene)

Practical (P) (305)

4TH SEMESTER

Introduction to the Dental Hygiene Profession (401)

This course provides an introduction to the profession of dental hygiene and the regulatory context for dental hygiene practice. An overview of the history of the profession and its evolution as a self-regulated profession in Ontario will provide the background for further discussion regarding the legislation related to dental hygiene; the role of the College of Dental Hygienists of Ontario; and the scope of practice and recognition of dental hygienists as a clinician, oral health educator, health promoter, advocate and coordinator. The significance of standards of practice, quality assurance, ethics and professional associations are explored. Finally students will be introduced to the concept of interprofessional care.

Oral Pathology (402)

Principles of general pathology in relation to the diseases of the teeth, soft tissues, and supporting structures of the oral cavity are discussed including inflammation, regeneration and repair, immune system disorders, heredity and neoplasia. The emphasis in oral pathology is on the etiology, clinical characteristics, and treatment of oral diseases and lesions. The role of the dental hygienist in identification, treatment, and referral will be considered- DENT1013 General and Oral Microbiology and P- DENT1019 Oral Histology and Embryology and P- DENT1022 Periodontics for the Dental Hygienist and P- DENT2019 Dental Hygiene Clinical - Introduction and C- DENT2018 Dental Hygiene Clinical –Intermediate

Professional Practice and Jurisprudence (403)

This course will explore the profession of Dental Hygiene including regulations, ethical decision-making and conflict resolution. The role of the College of Dental Hygienists of Ontario will be reviewed in detail with emphasis placed on the Standards of Practice and Quality Assurance program. Various career options and employment relationships will be discussed. Students will develop a professional portfolio that fulfills the regulatory requirements of the CDHO. P- DENT1045 Introduction to the Dental Hygiene Profession and P- HLTH1003 Preparation for Clinical Practice and C- DENT3007 Dental Hygiene Clinic Consolidation

Role of the Dental Hygienist in Orthodontics (404)

This course focuses on the role of the dental hygienist in the recognition of malocclusion, client preparation for orthodontic therapy and the maintenance of the client's oral and periodontal health during and after orthodontic treatment. Fixed and removable orthodontic appliances will be reviewed and periodontal aspects of adult orthodontics. Regulatory responsibilities and the orthodontic practice environment will also be studied. Students will gain practical lab experience with associated clinical skills such as placement and removal of brackets, bands, and placement of arch wires. P- DENT2018 Dental Hygiene Clinical - Intermediate

Practical (P) (405)