

The logo of Dow University of Health Sciences (D.U.H.S.) is a circular emblem. The outer ring contains the text "DOW UNIVERSITY OF HEALTH SCIENCES" at the top and "D.U.H.S." at the bottom, separated by two stars. Inside the circle is an open book with a sunburst rising from its center. A banner at the bottom of the circle also displays "D.U.H.S.".

**Disciplinary Major Courses for
Dental Hygiene Program**

Title of Course	COMMUNITY DENTISTRY-I
Course Code	DH-CDENT 415
Duration	8 Hour a week (2 hours classroom teaching/ lecture followed by 6 hours of community-based and para-clinical practices embedded to complete a Capstone project)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the basic principles of dental public health in close coordination with the principles of the public health.

Since dental auxiliaries are the main workforce in the Dental team that cater the public health needs and requirements and they work in close coordination with the Dentist, it is crucial that they understand the connection between the Body (general Health) and the Mouth (oral health) and help the public lessen the burden of diseases to achieve sustainable development goals. Therefore, they should learn about the basic epidemiological tools, health education and promotion, be able to assess the needs and be able to provide basic dental health care in the communities.

The students have already taken a foundational course in previous semester on Research and Evidence-based learning and a general education course on Civic and Community Engagement. Currently they will be taking a parallel course of oral screening and diagnosis which will augment the understanding about Community Dentistry. Community Dentistry course is divided into two parts, I and II. In this semester the students will learn about the basic epidemiological tools and measurement of spread of disease. It is a major course for the Dental Hygiene students and is placed in the 3rd year semester V.

COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand utilization of various health personnel in management of health care
2. Define and understand public health concepts with reference to global and local oral/ dental health issues
3. Identify and assess the underlying range of risk factors that determine health and particularly oral health.
4. Describe the basic epidemiology that contribute to the understanding spread of health and diseases conditions
5. Identify the oral health needs of individuals, treatment needs and demands of public
6. Describe epidemics of oral diseases that will contribute to the understanding underlying range of factors that determine people's health.

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
I.	People's Health – An introduction - Health, public health, dental public health - Public health problems and solutions	Exposure to inter-disciplinary community visits



	- Interprofessional collaborative practice - Dental auxiliary role in health team - Role of government in public health - Environmental Health - Public health & Principles of public health - Inequalities in health (needs and demands)	Students are already taking parallel course in chair-side clinical examination in the identification of different oral conditions; therefore, their focus in this course should be community – based screening and risk assessment
2.	Assessment for community dental health: - Core community functions - Changing perspectives of health - Social Determinants of health - Risk assessment	Students will be calibrated in laboratory for the use of indices before they are exposed to community-based screening
3.	Overview of epidemiology: - Epidemiology triangle - Uses of epidemiology - Epidemiological studies - Associations and causations - Measuring associations - Confounding effects	Minimum requirement of two (03) community visits must be achieved out of which at least one visit must be planned independently by group of DCP students to conduct epidemiological surveys
4.	Quantitative and qualitative approaches to study diseases: - Recall topics of research - Surveys - Sampling	
5.	Overview of oral epidemiology: - Recall screening and oral health examination	
6.	Measuring dental diseases: - Identification criteria of measuring dental diseases - Counts, proportions, rates, ratios and Indices	
7.	Class test	
8.	Epidemiology and measurement of dental caries	
9.	Mid-term exam	
10.	Epidemiology and measurement of oral hygiene status	
11.	Epidemiology and measurement of Periodontal Diseases	
12.	Epidemiology and identification of Oral Cancer	
13.	Epidemiology of Malocclusion and Traumatic Dental Injuries	
14.	Epidemiology of Fluorosis & other oral Diseases	
15.	Final Examination	

LEARNING RESOURCES AND TEXTBOOKS:

1. Community Oral Health Practices for Dental Hygienist by Christine French Beatty, 5th edition. Published by Elsevier

Reference Book

2. Concepts in Dental Public Health 2nd Edition by Jill Mason Publisher Lippincott Williams & Wilkins (Online available)

3. Oral health epidemiology- principles and practice by Amit Chattopadhyay. Jones and Barlett Publishers

Title of Course	COMMUNITY DENTISTRY- II
Course Code	DH-CDENT 415
Duration	8 clock hours a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical preventive practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the basic principles of dental public health in close coordination with the principles of the public health.

Since dental auxiliaries are the main workforce in the Dental team that cater the public health needs and requirements and they work in close coordination with the Dentist, it is crucial that they understand the connection between the Body (general Health) and the Mouth (oral health) and help the public lessen the burden of diseases to achieve sustainable development goals. Therefore, they should learn about the basic epidemiological tools, health education and promotion, be able to assess the needs and be able to provide basic dental health care in the communities.

The students have already taken a foundational course in previous semester on Research and Evidence-based learning and a general education course on Civic and Community Engagement. Currently they will be taking a parallel course of oral screening and diagnosis which will augment the understanding about Community Dentistry. Community Dentistry course is divided into two parts, I and II. In this semester the students will learn beyond the basic epidemiological tools and measurement of spread of disease, and study about health promotion methods. It is a major course for the Dental Hygiene students and is placed in the 3rd year semester VI.

COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Define and understand basic dental public health practices and promotion
2. Deliver basic package of primary oral health care including in communities and institutional groups
3. Integrate the understanding of oral health needs of individuals and assist them in the development of appropriate and individualized self-care regimens and promote healthy behaviors.
4. Deliver oral health education in different communities and outreach programs.

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ METHOD	ASSESSMENT
1.	Introduction to community dental programs planning: - Improving oral health in the community - Program planning process - Identifying primary health issues - Implementation of programs	Exposure to civic and community engagement activities Students have already learnt the chair-side and community-based screening and examination, now	



	- How to measure effectiveness of program	it's time that students learn to the basic oral health care provision in practice like that highlighted as BPOC (ART, AFT, OHI and OUT) Students will practice ART in laboratory limited to models and mannequins. Minimum requirement of two (03) community visits must be achieved out of which at least one visit must be planned independently by group of DCP students
2.	Access and barriers to care Primary healthcare: - Ottawa Charter - Components of PHC - Oral health disparities	
3.	Community – based approaches to management strategies	
4.	Basic Package of Oral Health Care - Oral Hygiene Instructions - Atraumatic restorative treatment - Availability of Affordable Fluoridated Toothpaste - Oral Urgent Treatment	
5.	Practicing basic oral healthcare for different population groups School based oral health programs based on BPOC	
6.	Class test	
7.	Social responsibility and ethics	
8.	Behavioral management theories	
MIDTERM EXAMINATION		
	Application of behavioral management Counselling and motivational interviewing	The results of epidemiological surveys conducted in the earlier semester will be used to plan Health education and promotion program through community-engagement and delivery programs in clinics and communities These programs may integrate primary preventive strategies studied in the parallel Preventive Dentistry course in the same semester in clinics and communities for dental caries using available preventive methods
9.	Introduction to health promotion - Theories and strategies	
10.	Community Oral Health Education Developing educational material	
11.	Health communication and health information technology - Creating and delivering health communication - Formats for different audiences	
12.	Service- learning - Preparing dental hygienists for collaborative practices - Benefits of interprofessional collaboration Risk management in service-learning	
13.	Role of Tobacco use and its health impacts Anti-tobacco uses initiatives Role of poor oral hygiene	
14.	Role of diet and nutrition on oral self-care Role of unhealthy diet and lifestyle modification	
FINAL EXAMINATION		

LEARNING RESOURCES AND TEXTBOOKS:

1. Community Oral Health Practices for Dental Hygienist by Christine French Beatty, 5th edition. Published by Elsevier

REFERENCE BOOK

2. Concepts in Dental Public Health 2nd Edition by Jill Mason Publisher Lippincott Williams & Wilkins
3. Comprehensive Preventive Dentistry edited by Hardy Limeback. Published by Wiley Blackwell

Title of Course	PREVENTIVE DENTISTRY- I
Course Code	DH-PDENT 416
Duration	8 Hour a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical preventive practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR DISCIPLINARY COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the prevention of oral and systemic diseases.

Since dental auxiliaries are the main workforce in the Dental team that cater the public health needs and requirements and they work in close coordination with the Dentist, it is crucial that they understand the connection between the Body (general Health) and the Mouth (oral health) and help the public lessen the burden of diseases to achieve sustainable development goals. Therefore, they should learn about the basic preventive and primary dental health care management tools, health education and promotion, be able to assess the needs and be able to provide basic dental health care in the communities.

The students are already taking a parallel course of Community dentistry in this semester where they are studying about oral health promotion and education; therefore, this course will focus more on primary oral healthcare and prevention as managed by the dental hygienists both in clinics and in community. Preventive Dentistry is a lengthy subject therefore this course has been divided into two parts, I and II. It is a major course for the Dental Hygiene students and is placed in the 3rd year as well as in final year in both semester VI and semester VII respectively.

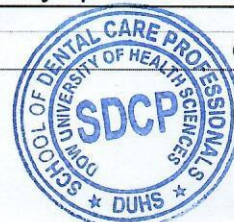
COURSE OBJECTIVES:

The students will be able to:

1. Describe, understand and outline the knowledge and applications of chair-side and community-based prevention of common oral diseases affecting systemic health in clinical and community settings.
2. Encourage patients/clients to assume responsibility for their health and promote adherence to self-care regimens.
3. Deliver supervised fluoride applications in clinical settings.

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to primary preventive dentistry	Didactic component will comprise power point lectures and tutorials in the class on the topics outlined subsequently. In-service learning for the delivery of primary prevention can be
2.	Dental hygiene science	
3.	Recall identified carious lesions in oral epidemiology - Dental plaque and biofilm - Carious lesions	
4.	Host-defense mechanism in oral cavity	



	Connection between oral and general health – bi-directional relationship	integrated with the parallel course Community Dentistry taught in the same semester. Before applying primary preventive methods and strategies in the community and clinics the students must learn in laboratory
5.	Oral health care and plaque control - Toothbrushing methods - Use of plaque disclosing agents	
6.	Oral health care and plaque control – mechanical use - Other dentifrices - Flossing and other interdental methods	
7.	Class test	
8.	Oral health care and plaque control – chemical use - Mouthwashes - Implant dentures and self-care	
MIDTERM EXAMINATION		
9.	Oral health care and plaque control - In patients with implant dentures - Other self- care adjuncts - Counselling methods	Presentations by students on preventive oral health related topics, oral health education and promotion amongst different populations will also be included in practical hours. Fluoride applications
10.	Prevention of dental caries - Control of caries inducing microorganisms - Sugars and their role and presence of fluorides	
11.	Class test	
12.	Different fluoride delivery methods - Topical – clinical based	
13.	Different fluoride delivery methods - Topical – Home based - Topical – community based	
14.	Different fluoride delivery methods - Water fluoridation Other systemic delivery	
FINAL EXAMINATION		

LEARNING RESOURCES AND TEXTBOOKS:

1. Primary Preventive Dentistry by Norman and Franklin et al. Pearson New International Edition. Published by Pearson

Reference books

2. Comprehensive Preventive dentistry edited by Hardy Limeback. Publisher Wiley-Blackwell (Available online)
3. Preventive dentistry by Leon M Silverstone (available online)

Title of Course	PERIODONTOLOGY- I
Course Code	DH-PERIO 416
Duration	8 Hour a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical preventive practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR DISCIPLINARY COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course is a major discipline course and has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the basic periodontal management.

Periodontology deals with the study of supporting structures of teeth, as well as diseases and conditions that affects them. The supporting tissues are known as the periodontium, which includes the gingiva (gums), alveolar bone, cementum, and the periodontal ligament. A periodontist is a qualified dentist that specializes in the diagnosis and treatment of periodontal disease. But since the dental auxiliaries are the main workforce in the Dental team that cater both the public health needs and requirements as well as in the clinical auxiliary settings in close coordination with the Dentist, it is crucial that they understand the preventive strategies that includes prophylactic periodontal care in the context of connection between the Body (general Health) and the Mouth (oral health). They must understand that the gum diseases have a bi-directional relationship with the communicable and the non-communicable diseases and the general body suffers if the gums are found bleeding or with calculus and plaque. Oral hygiene therefore is a mandatory requirement to keep the general body fit and healthy.

Periodontology is a lengthy subject therefore this course has been divided into two parts. It is a major course for the Dental Hygiene students and is placed in the 3rd year as well as in the final year in semester VI and semester VII respectively. The practical component of this course will be integrated with the parallel courses in preventive dentistry to deal with prevention of periodontal diseases.

COURSE OBJECTIVES:

The students will be able to:

1. Identify poor periodontal conditions and classify them into diseased and healthy status
2. Identify the risk factors related to periodontitis and gingivitis
3. Measure pocket depth and clinical attachment loss at the chair-side periodontal screening
4. Develop appropriate and individualized self-care periodontal regimens.
5. Promote preventive periodontal health behaviors by personally striving to maintain optimal oral and general health.
6. Encourage patients/clients to assume responsibility for their health and promote adherence to self-care regimens.
7. Act as a primary care provider for individuals and groups of patients who require periodontal care

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to periodontology	



	Revision of periodontal structures and anatomy	Clinical observation and dental assistance
2.	Applications of physiology, biochemistry and pathology concepts in periodontology	
3.	Periodontal examination and clinical disease measurements	Dental assistance History taking
4.	Revision of etiological, risk and determining factors of periodontal diseases	
5.	Types and classification of periodontal diseases Importance and applications of history taking	Measuring pocket depths
6.	Gingival enlargement and pocketing Measuring pockets and gingival recessions	
7.	Patient seating in clinics Chair positioning for different periodontal procedures	Patient seating and tray setting Instrument sharpening
8.	Basics of instrumentation in periodontology Tray setting	
MIDTERM EXAMINATION		
9.	Theories of Scaling Basics of methods and procedures Hand instrumentation	Sterilization and disinfection Dental assistance and oral hygiene instructions
10.	Chemical agents in periodontal care Maintenance for periodontal patient	
11.	Disinfection of working area Disinfection of patients' oral cavity and area around Sterilization of periodontal instruments	
12.	Sharpening of periodontal instruments	Sterilization and disinfection Dental assistance and oral hygiene instructions At least five (05) Hand scaling procedures under supervision
13.	Revision of periodontal hygiene aids and methods Post-operative instructions Motivational interviewing to enhance patient motivation for change	
14.	Periodontal treatment referral and management	

LEARNING RESOURCES AND TEXTBOOKS:

1. Foundations for periodontics for the dental hygienist by Jill S Neild-Gehrig and Donald E Willmann 3rd edition Lippincott Williams & Wilkins (available online free downloads)
2. Color atlas of dental hygiene- Periodontology by Herbert F Wolf and Thomas M Hassell, Thieme (available online free download)

Title of Course	PREVENTIVE DENTISTRY- II
Course Code	DH-PDENT 427
Duration	8 clock hours a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical preventive practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR DISCIPLINARY COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the prevention of oral and systemic diseases.

The placement of this subject is in 4th year, semester-VII of BS-DCP Dental Hygiene. The students have already taken course of Community Dentistry in previous semesters and also studied the part- I of the Preventive Dentistry course. In this current course the students will enhance knowledge and understanding of preventive procedures related to gums and soft tissues

and enlighten them on how to effectively promote patients' oral health care and instruct prevent measures to oral disease. Orients students to current updated literatures includes evidence-based preventive management and interventions that dentists and allied dental providers will utilize during patient assessment. Preventive dentistry is a comprehensive approach that calibrates the entire dental team, determining individualized care and education of each patient in the dental practice.

Preventive Dentistry is a lengthy subject therefore this course has been divided into two parts, I and II. It is a major course for the Dental Hygiene students and is placed in the 3rd year as well as in final year in both semester VI and semester VII respectively.

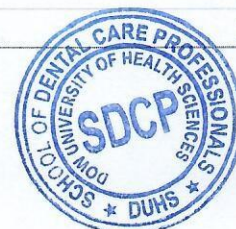
COURSE OBJECTIVES:

The students will be able to:

1. Deliver supervised fissure sealants and atraumatic restorative treatment in clinical settings.
2. Learn to know the preventive methods for the following preventable diseases. i.e. Prevention of Periodontal Disease, Oral cancer, Dental Trauma.
3. Implement preventive measures for each of the specified diseases

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ METHOD	ASSESSMENT
1.	Prevention of dental caries Pits and fissure sealants in community-based settings (hand instrumentation)	Didactic component will comprise power point lectures and tutorials in the class on the topics outlined subsequently.	
2.	Prevention of dental caries Pits and fissure sealants in clinical setting		
3.	Pediatric care and prevention Early childhood caries (ECC)	In-service learning for the delivery of primary prevention can be integrated	



	Techniques to manage a child visiting for dental care using positive reinforcement and social learning theories	with the parallel course Community Dentistry taught in the same semester. Before applying primary preventive methods and strategies in the community and clinics the students must learn in laboratory In laboratory and clinical (under supervision) practices will include application of fissure sealants and students assisting each other (under supervision) during scaling procedures in the clinic. These exercises can be integrated with the parallel course Periodontology in the same semester.
4.	Technological advances in primary dental care Immunization Gene replacement therapy	
5.	Prevention of Dental Trauma Safe school initiative programs Athletic mouthguards	
6.	Class test	
7.	Prevention for the Population with developmental disabilities Soft tissue prevention Hard tissue preventions (non-carious lesions)	
8.	Prevention of malocclusion	
	Mid-term exam	
9.	Prevention of Periodontal Diseases	
10.	Effectiveness of plaque control methods for systemically diseased population and high-risk patients	
11.	Calculus Removal Methods: Needs and requirements for professional care and Prophylaxis for medically compromised patients	
12.	Prophylactic use of antibiotics Hazards of over use of antibiotics	
13.	Prevention of Oral Cancers	
14.	Revision	
15.	Final exam	

LEARNING RESOURCES AND TEXTBOOKS:

1. Primary Preventive Dentistry by Norman and Franklin et al. Pearson New International Edition. Published by Pearson

Reference books

2. Comprehensive Preventive dentistry edited by Hardy Limeback. Publisher Wiley-Blackwell (Available online)
3. Preventive dentistry by Leon M Silverstone (available online)
4. Clinical Textbook of Dental Hygiene and Therapy, 2nd Edition by Suzanne L Noble Publisher Wiley-Blackwell (Online available) with special focus on Chapters 11, 13, 19 and 20

Title of Course	PERIODONTOLOGY- II
Course Code	DH-PERIO 427
Duration	8 clock hours a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical preventive practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the **MAJOR DISCIPLINARY COURSE REQUIREMENTS** of the Higher Education Commission that include both the foundation courses as well as the major courses. This course is a major discipline course and has been introduced in the BS Program of Dental Hygiene to get the dental hygiene students acquainted with the basic periodontal management.

Periodontology deals with the study of supporting structures of teeth, as well as diseases and conditions that affects them. The supporting tissues are known as the periodontium, which includes the gingiva (gums), alveolar bone, cementum, and the periodontal ligament. A periodontist is a qualified dentist that specializes in the diagnosis and treatment of periodontal disease. But since the dental auxiliaries are the main workforce in the Dental team that cater both the public health needs and requirements as well as in the clinical auxiliary settings in close coordination with the Dentist, it is crucial that they understand the preventive strategies that includes prophylactic periodontal care in the context of connection between the Body (general Health) and the Mouth (oral health). They must understand that the gum diseases have a bi-directional relationship with the communicable and the non-communicable diseases and the general body suffers if the gums are found bleeding or with calculus and plaque. Oral hygiene therefore is a mandatory requirement to keep the general body fit and healthy.

Periodontology is a lengthy subject therefore this course has been divided into two parts. It is a major course for the Dental Hygiene students and is placed in the 3rd year as well as in the final year in semester VI and semester VII respectively. The practical component of this course will be integrated with the parallel courses in preventive dentistry to deal with prevention of periodontal diseases.

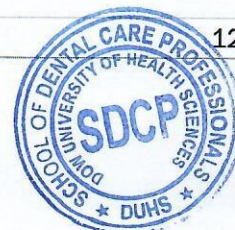
COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Provide effective periodontal care in the primary, secondary and tertiary levels of dental health care settings.
2. Apply scientific principles to the provision of periodontal care to the patients suffering from poor systemic conditions pertinently non-communicable diseases.
3. Plan and provide multidisciplinary oral health care for a wide variety of patients including patients with special needs.

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Difference between supra gingival and sub gingival calculus and composition	At least 5 scaling using hand instrumentations
2.	Introduction to ultrasonic scaling Theory and	



	mechanics Shapes of scaling tipsSpeed and vibrations	
3.	Basics of ultrasonic scalingProcedures and methods	Clinical observations for ultrasonic scaling
4.	Requirements of disinfection and sterilization in ultrasonic scaling Tray setting	At least 25 procedures in periodontology clinic of Clinical assistance through four-handed dentistry concept including dental assistance for periodontal surgical procedures
5.	Chair positioning for ultrasonic scaling Patient readiness	
6.	Pre-scaling prophylactic measures	
7.	Requirement of four handed dentistry in ultrasonic scaling	
8.	Proper way of suctioningSuction positions	
MIDTERM EXAMINATION		
9.	Hazards of ultrasonic scaling	At least 10 procedures of ultrasonic scaling including at least five (05) procedures of root planing under supervision including post operative instructions and counselling
10.	Polishing Prophy pastes	
11.	Sub-gingival professional calculus removal Root planing procedure	
12.	Requirement of anesthesia for root planning	
13.	Post-operative instructions Special instructions for pain and hypersensitivity	Clinical observations and dental assistance
14.	Post-operative care and managementGingival clefts Basics of periodontal surgical proceduresPeriodontal dressings	

LEARNING RESOURCES AND TEXTBOOKS:

1. Foundations for periodontics for the dental hygienist by Jill S Neild-Gehrig and Donald E Willmann 3rd edition Lippincott Williams & Wilkins (available online free downloads)
2. Color atlas of dental hygiene- Periodontology by Herbert F Wolf and Thomas M Hassell, Thieme (available online free download)
3. Manual for Preventive Dentistry I-II and Clinical Periodontics I-II (Online available)

Title of Course	BASICS OF HEALTH CARE MANAGEMENT
Course Code	DH-BHCM 407
Duration	8 clock hours a week (2 hours classroom teaching/ lecture followed by 6 hours of community based and chair-side clinical and para-clinical dental health care management and services)
Campus/ Location Office	OJHA campus
Total Credit Hours	4 Cr. Hours (2 + 2)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the current **MAJOR DISCIPLINARY COURSE REQUIREMENTS** of the Higher Education Commission, this course has been introduced in the BS- Dental Hygiene Program to get the students acquainted majorly with the basics of health care management services.

The course is placed in 4th year semester VII for the Dental Hygiene students.

COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand the utilization of various health personnel in the management of health care.
2. To function effectively provide oral health care in the outpatient setting and a hospital setting.
3. To apply scientific principles to the provision of oral health care.
4. To plan and provide multidisciplinary oral health care for a wide variety of patients including patients with special needs.

COURSE PLAN:

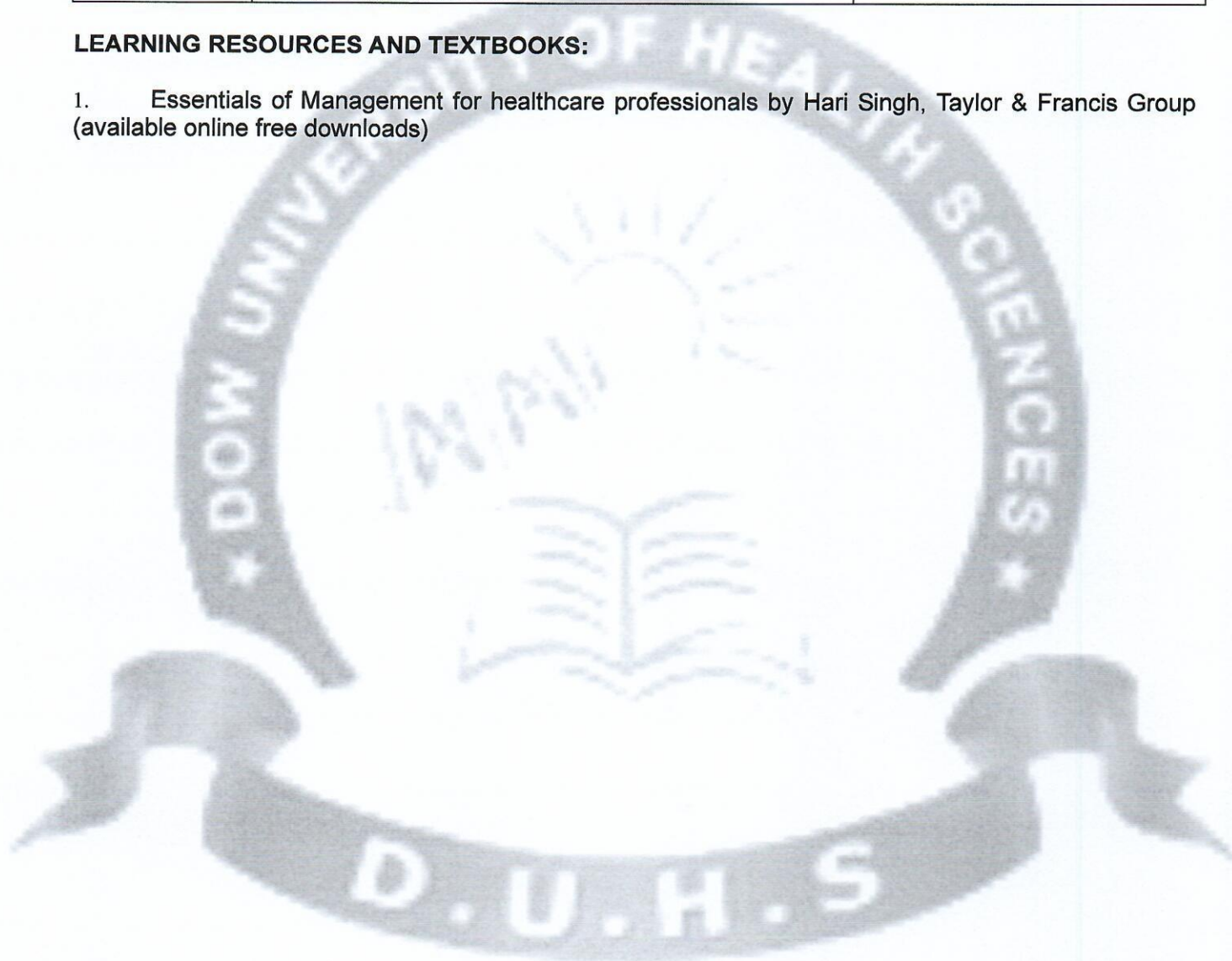
WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to health care systems Types of health care settings and systems	Hospital set-up visits and reporting (written reports)
2.	Public sector settings Governmental organization and structure	
3.	Private settings and structure Private dental settings Public-private partnership	
4.	Community services Safety nets Role of non-government organizations Dental laboratory set-ups	
5.	Basics of health administration Organization structure Private practice structure	
6.	Basics of health care management Clinical set-ups and resource management	
7.	Human resource management Dental team management Role of auxiliary in dental practice	
8.	Staffing and training Leadership, managerial and administrator ship skills	



MIDTERM EXAMINATION		
9.	Health care planning cycle	Community visits and report writing
10.	Basics of Health economicsDental financing	
11.	Payment plans	
12.	Dental diary and schedulingDental reception	
13.	Clinical governance	
14.	Clinical risk management Ethical practice Code of conduct	
	FINAL EXAMINATION	

LEARNING RESOURCES AND TEXTBOOKS:

1. Essentials of Management for healthcare professionals by Hari Singh, Taylor & Francis Group (available online free downloads)



Title of Course	AUXILIARY MANAGEMENT IN ORTHODONTICS
Course Code	DH-AORTH 408
Duration	11 clock hours a week (2 hours classroom teaching/ lecture followed by 9 hours of para-clinical/ auxiliary, preventive and community-based practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	5 Cr. Hours (2 + 3)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the current **MAJOR DISCIPLINARY, FIELD EXPERIENCE AND CAPSTONE PROJECT WORK REQUIREMENTS** of the Higher Education Commission, this course has been introduced in the BS-Dental Hygiene Program to get the students acquainted with the dental auxiliary practices in the specialized dental clinics.

The course is placed in 4th year semester VIII and is major course for the BS-DCP Dental Hygiene.

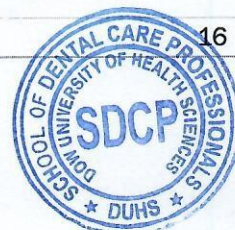
COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand the role of dental hygienist in clinical and paraclinical orthodontic practice
2. Perform and accurately document dental and periodontal findings after calibrated examinations
3. Obtain radiographs of diagnostic quality and distinguish normal from abnormal findings.
4. Implement and evaluate measures to minimize occupational hazards in the work place and utilize accepted infection control procedures
5. Communicate professional knowledge verbally with specialists and other professionals.

COURSE PLAN

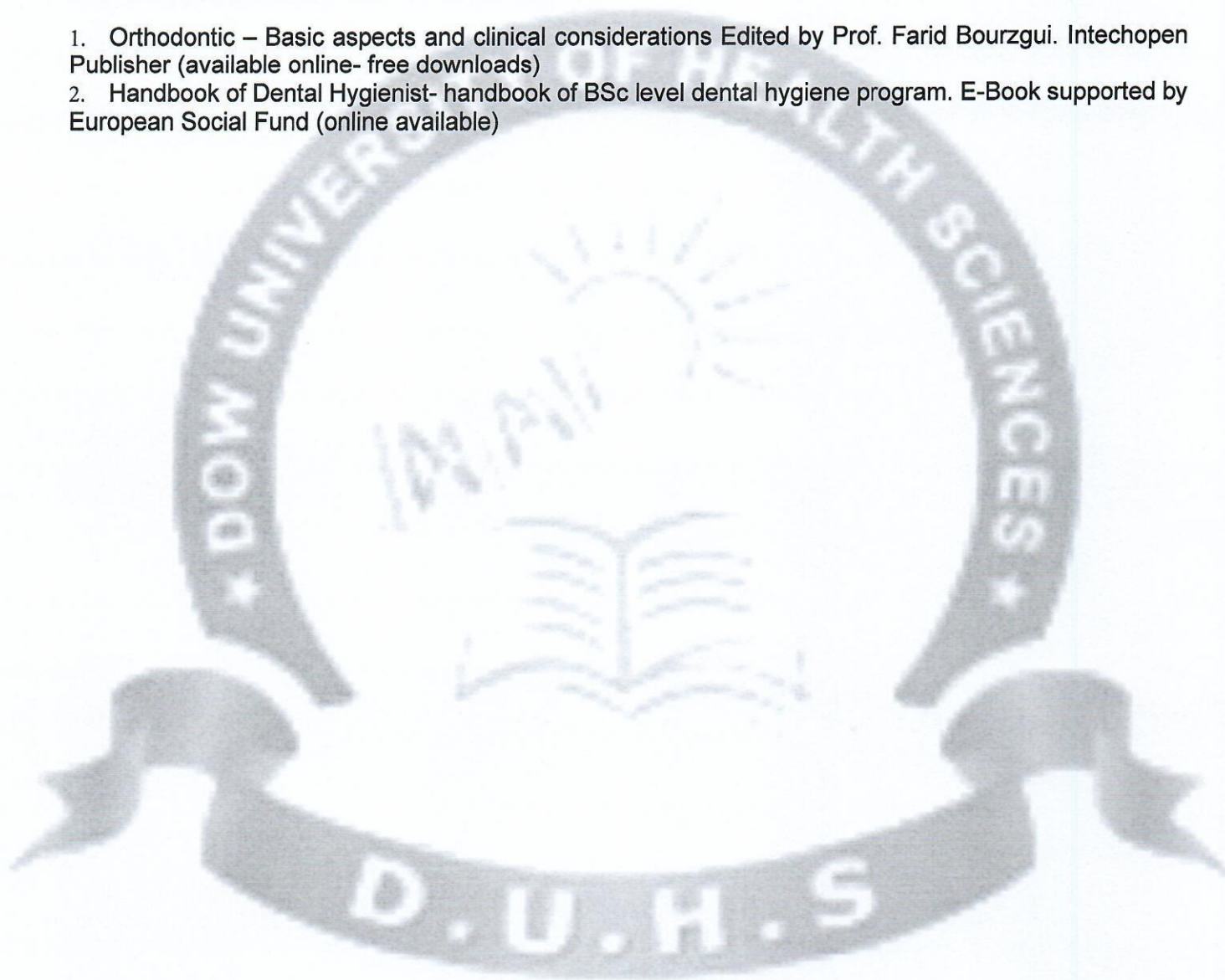
WEEK	LESSON TOPIC	TEACHING/ METHOD	ASSESSMENT
1.	Clinical photography for records	Clinical assistance and clinical observation	
2.	Impressions and recording occlusal relationships		
3.	Cephalometric radiography Tracing cephalography	Tray set-ups Maintaining infection control and ensuring sterilization	
4.	Identifying types of clasps and extra-oral orthodontic appliances		
5.	Placing separators	Patient preparation Patient counselling Taking impressions	
6.	Sizing metal bands Cementation Loosing bands		
7.	Preparation of teeth for bonding fixed attachments and fixed retainers		
8.	Indirect bonding of brackets		
	Mid-term exam		
9.	Oral hygiene instructions for orthodontics patients Habit breaking motivational interviewing	Perform auxiliary procedures as indicated by orthodontist under supervision	
10.	Placing arch wires		



	Replacing ligatures	Record keeping and maintenance
10.	Removing fixed orthodontic attachments and retainers	
11.	Trial fitting of removable appliances Making study and patient models	Integrate clinical hours to finish Capstone Project
13.	Removing adhesives using slow speed handpiece	
14.	REVISION	

LEARNING RESOURCES AND TEXTBOOKS:

1. Orthodontic – Basic aspects and clinical considerations Edited by Prof. Farid Bourzgui. Intechopen Publisher (available online- free downloads)
2. Handbook of Dental Hygienist- handbook of BSc level dental hygiene program. E-Book supported by European Social Fund (online available)



Title of Course	AUXILIARY MANAGEMENT IN MAXILLOFACIAL SURGERY
Course Code	DH-AMAXF 408
Duration	11 Hours a week (2 hours classroom teaching/ lecture followed by 9 hours of para-clinical/ auxiliary, preventive and community-based practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	5 Cr. Hours (2 + 3)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the current **MAJOR DISCIPLINARY, FIELD EXPERIENCE AND CAPSTONE PROJECT WORK REQUIREMENTS** of the Higher Education Commission, this course has been introduced in the BS-Dental Hygiene Program to get the students acquainted with the dental auxiliary practices in the specialized dental clinics.

The course is placed in 4th year semester VIII and is major course for the BS-DCP Dental Hygiene.

COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand the role of dental hygienist in clinical and paraclinical maxillofacial surgery unit practice
2. Perform and accurately document dental and periodontal findings after calibrated examinations
3. Obtain radiographs of diagnostic quality and distinguish normal from abnormal findings.
4. Implement and evaluate measures to minimize occupational hazards in the work place and utilize accepted infection control procedures
5. Communicate professional knowledge verbally with specialists and other professionals.
6. Provide primary and preventive basic clinical management
7. Refer complicated cases to the dentists/ graduate dental surgeons

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to maxillo facial surgery clinic set-up Communicating with the specialist	Clinical assistance and clinical observation
2.	Art of history taking Steps in history taking Clinical examination Intra and extra oral	History taking, basic information collection and communication
3.	Taking vitals Basics of Clinical diagnostic aids	
4.	Managing medically compromised patients in oral surgery Classification Referral to specialist	Assisting specialist on chair-side and operation theatre surgical procedures Handling instruments Surgical suctioning
5.	Armamentarium used in oral and maxillo facial surgery Forceps, Holders, tongs and clips, Retractors and mouth props, Scalpels, Scissors, Blades, Sutures and needles Elevators, Probes, Raspatory, Scoops and curettes, Chisel and bone cutters, Osteotome, mallet, gouge, Suction and tubing, Wires, hooks and plates	Assisting specialist in suturing Infection control Following and implementation of standard operating procedures



6.	Basic of suturing and knots Removing suture after heading	for infection control and biohazard management
7.	Asepsis and sterilization in oral surgery Cleansing instruments Scrubbing and hand washing techniques Biohazard management Reporting needlestick injuries Handling and seating HIV/ Hepatitis infected patient	Basic and preventive clinical practice under specialist supervision Assisting specialist through four-handed dentistry
8.	Grade-3 mobile tooth extraction under infiltration orspray/ topical anesthesia Dry socket and its management	Record keeping and maintenance
	Mid-term exam	Integrate clinical hours to finish Capstone Project
9.	Basic applications of anesthesia in oral surgery Tray set-up/ equipment for anesthesia Other sedation techniques Short anesthesia in dental chair Complications of general anesthesia	
10.	Basics of Hemostasis Cardio-pulmonary resuscitation (CPR)	
10.	History and essential management of trauma patients with and without fractures History and essential management of TMJ ankylosis	
11.	Suction techniques in surgical procedures	
13.	Performing four-handed dentistry in maxillofacial surgery Assisting specialist in oral surgery	
14.	REVISION	

LEARNING RESOURCES AND TEXTBOOKS:

1. Jaypee's Textbook of oral and maxillofacial surgery by Neelima Anil Malik, 2nd edition (available online free downloads)
2. Oral and maxillofacial surgery instrumentation (available online free downloads)
3. Peri-Implant Therapy for the Dental Hygienist- clinical guide to maintenance and disease complications by Susan S Wingrove. Wiley-Blackwell Publisher
4. Handbook of Dental Hygienist- handbook of BSc level dental hygiene program. E-Book supported by European Social Fund (online available)

Title of Course	AUXILIARY MANAGEMENT IN PROSTHODONTICS
Course Code	DH-APROS 408
Duration	11 Hours a week (2 hours classroom teaching/ lecture followed by 9 hours of para-clinical/ auxiliary, preventive and community-based practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	5 Cr. Hours (2 + 3)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

To fulfil the current **MAJOR DISCIPLINARY, FIELD EXPERIENCE AND CAPSTONE PROJECT WORK REQUIREMENTS** of the Higher Education Commission, this course has been introduced in the BS-Dental Hygiene Program to get the students acquainted with the dental auxiliary practices in the specialized dental clinics.

The course is placed in 4th year semester VIII and is major course for the BS-DCP Dental Hygiene.

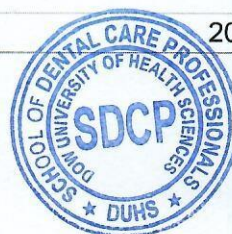
COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand the role of dental hygienist in clinical and paraclinical prosthodontic jurisdiction practice
2. Perform and accurately document partial dental and edentulous findings after calibrated examinations
3. Obtain radiographs of diagnostic quality and distinguish normal from abnormal findings.
4. Implement and evaluate measures to minimize occupational hazards in the work place and utilize accepted infection control procedures
5. Communicate professional knowledge verbally with specialists and other professionals.
6. Provide primary and preventive basic clinical management
7. Refer cases to the dentists/ graduate dental surgeons

COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to oral rehabilitation	Clinical assistance and clinical observation
2.	Equipment used in prosthodontics	
3.	Instruments used in prosthodontics	
4.	Material used in prosthodontics	History taking, basic information collection and communication
5.	Sterilization and impression handling in prosthodontics	
6.	Classification of removable dental prostheses History taking requirements Examination and dental charting of patient Design and Uses of prostheses Advantages/ disadvantages Indications/ contra-indications	Assisting specialist on chair-side and Handling instruments Assisting specialist in crown and bridge procedures at chair-side
7.	Classification of fixed dental prosthesis History taking requirements Examination and dental charting of patient Design and Uses of prostheses Advantages/	Infection control while impression taking, transferring model after pouring to the dental laboratory



	disadvantages Indications/ contra-indications	Taking care of infection control protocol while tray setting
8.	Class test	
	Mid-term exam	
9.	Material selection, handling and manipulation Impressions Waxes Model pouring	Following and implementation of standard operating procedures for infection control and biohazard management
10.	Different impression techniques	Basic and preventive clinical practice under specialist supervision
10.	Patient counselling and communication skills	
11.	Teeth shade selection and shade charting	
13.	Denture insertion and assisting specialists in prosthodontic clinics	Assisting specialist through four-handed dentistry
14.	REVISION	Record keeping and maintenance Integrate clinical hours to finish Capstone Project

LEARNING RESOURCES AND TEXTBOOKS:

1. Handbook of Dental Hygienist- handbook of BSc level dental hygiene program. E-Book supported by European Social Fund (online available)

Title of Course	AUXILIARY MANAGEMENT IN OPERATIVE DENTISTRY
Course Code	DH-AOPER 408
Duration	11 Hours a week (2 hours classroom teaching/ lecture followed by 9 hours of para-clinical/ auxiliary, preventive and community-based practices)
Campus/ Location Office	OJHA campus
Total Credit Hours	5 Cr. Hours (2 + 3)
Accredited by	ALLIED HEALTH PROFESSIONAL COUNCIL PAKISTAN

COURSE INTRODUCTION:

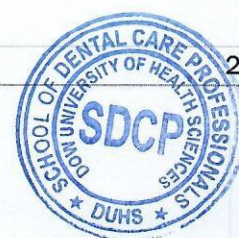
To fulfil the current **MAJOR DISCIPLINARY, FIELD EXPERIENCE AND CAPSTONE PROJECT WORK REQUIREMENTS** of the Higher Education Commission, this course has been introduced in the BS-Dental Hygiene Program to get the students acquainted with the dental auxiliary practices in the specialized dental clinics.

The course is placed in 4th year semester VIII and is major course for the BS-DCP Dental Hygiene.

COURSE OBJECTIVES:

At the completion of this course students will be able to:

1. Understand the role of dental hygienist in clinical and paraclinical operative and restorative practice
2. Take patient history, conduct oral examination and dental charting
3. Recognize basic armamentarium of restorative dentistry and set tray for different rotary procedures
4. Understand and identify the appropriate management of dental caries and restorative strategies
5. Perform preventive and primary restorative procedures such as pits and fissure sealants, fluoride applications and atraumatic restorative treatment using hand instrumentation only required in operative dentistry
6. Refer to specialist care and management for restoration that requires rotary instrumentation
7. Able to apply rubber dam and maintain dry field during rotary restorative procedures through four-handed dentistry concept
8. Maintain and ensure asepsis, sterilization and cross-infection control during all operatory procedures
9. Able to handle, manipulate and mix all types of restorative material during four-handed dentistry operatory procedures
10. Understand and perform management of tooth discoloration through non-invasive and non-rotary dental procedures
11. Place, replace and remove matrix band for amalgam and other fillings that require rotary operatory procedures
12. Finishing, burnishing and carving of fillings
13. Perform digital photography and radiography
14. Pre-operative and post-operative counselling and oral hygiene instruction and professional maintenance
15. Record color shading and matching
16. Obtain radiographs of diagnostic quality and distinguish normal from abnormal findings.
17. Implement and evaluate measures to minimize occupational hazards in the work place and utilize infection control procedures
18. Communicate professional knowledge verbally with specialists and other professionals.
19. Provide primary and preventive basic clinical management
20. Refer complicated cases to the dentists/ graduate dental surgeons



COURSE PLAN

WEEK	LESSON TOPIC	TEACHING/ ASSESSMENT METHOD
1.	Introduction to operative dentistry Indications for procedures in operative dentistry Purpose of operative dentistry	Clinical assistance and clinical observation
2.	Tooth nomenclature Types, sets, notations Nomenclatures related to dental caries Tooth structure, functions of teeth	History taking, basic information collection and communication
3.	Caries risk assessment Recurrent caries/ secondary caries Current methods in prevention of dental caries	Assisting specialist on chair-side and Handling instruments
4.	Armamentarium Cutting instruments Hand cutting instruments Sharpening of hand instruments Ultrasonic instruments	Infection control while impression taking, transferring model after pouring to the dental laboratory
5.	Clinical Photography both intra-oral and extra-oral Radiography including periapical, bite-wing, OPG etc	Taking care of infection control protocol while tray setting
6.	Tooth preparation using hand instrumentations Dental material selection with hand instrumentation Minimally intervention dentistry Atraumatic restorative treatment Glass ionomer cement handling, manipulation and restoration	Following and implementation of standard operating procedures for infection control and biohazard management
7.	Patient, operator and auxiliary position Isolation of operating field Equipment needed for isolation	Basic and preventive clinical practice under specialist supervision
8.	Infection control, Instrument processing procedures, Disinfection and sterilization	Assisting specialist through four-handed dentistry
	Mid-term exam	
9.	Matrixing and tooth separation Pulp protection	Record keeping and maintenance
10.	Interim restorations Material handling and manipulation for interim restoration	Integrate clinical hours to finish Capstone Project
10.	Tooth hypersensitivity Differential diagnosis	
11.	Management of discolored teeth Bleaching	
13.	Auxiliary requirements in other types of restorations such as amalgam fillings, composite veneering, in-lays/on-lays etc.	
14.	REVISION	

LEARNING RESOURCES AND TEXTBOOKS:

1. Handbook of Dental Hygienist – handbook of BSc level dental hygiene program. E-Book supported by European Social Fund (online available)
2. Jaypee's Textbook of operative dentistry by Nisha Garg and Amit Garg 2nd edition (available online free downloads)
3. Fundamentals of operative dentistry by Schwartz and summit