

Republic of Yemen

Ministry of Higher Education & Scientific Research

Emirates International University



Faculty of Dentistry

Department of POP

Doctor of Dental Surgery (DDS)

Course Specification of

Preventive Dentistry

Course No. (-----)



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Review committee:

Head of the Department

Quality Assurance head



Dean of Faculty

I. Course Identification and General Information:

1	Course Title:	Preventive Dentistry			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	-
4	Study Level/ Semester at which this Course is offered:	5 th Level / 1 st Semester			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Dr. Abdulqader Zabarrah			

II. Course Description:

This course aims to provide an understanding of the aetiology of caries development and basic mechanism for prevention and evidence based analysis of the preventive techniques available, This course focuses on the aetiology and prevention of dental caries. Prevention of dental caries is discussed including fluoride mechanism of action and modalities of fluoride available emphasizing an evidence based approach. New technologies used in the early detection of dental caries and biological management of the disease are discussed. Caries risk assessment methods are also discussed.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program	
A. Knowledge and Understanding:		I, A or E	
a1	List preventive strategies for both dental caries, both office based and home based methods.		A6
a2	Explain the methods of prevention of dental caries using diet control and sugars substitutes.		A5
B. Intellectual Skills:			
b1	Assess dental caries risk		B1
b2	Formulate dental caries preventive regime.		B3
C. Professional and Practical Skills:			
c1	Application of fluoride		C2
D. Transferable Skills:			
d1	Adopt ethical standards in oral health programs and activities.		D6
d2	Utilize available recourses for continuing education and development of the profession		D2

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	List preventive strategies for both dental caries, both office based and home based methods.	Lectures Discussions Midterm Exam Final Exam
a2	Explain the methods of prevention of dental caries	Lectures Discussions Midterm Exam Final Exam

	using diet control and sugars substitutes.		
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1	Assess dental caries risk	Lecture Discussions Brainstorming	Midterm Exam Final Exam
b2	Formulate dental caries preventive regime.	Lecture Discussions Brainstorming	Midterm Exam Final Exam
(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Application of fluoride	Discussions Brainstorming	Semester work
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Adopt ethical standards in oral health programs and activities.	- Discussion - Presentation	Semester work
d2	Utilize available recourses for continuing education and development of the profession	- Discussion - Presentation	Semester work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CIOs)
1	Introduction to preventive dentistry	- Definition, Scope, Objectives and Importance Levels, role of individual community and profession,	1	2	a1, b1

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		fluorides in dentistry, plaque control programs.			
2	Etiology of dental caries.	Diagnostic procedures and caries detection - Caries pattern in primary, young permanent and permanent teeth - Early childhood caries, rampant caries-definition, classification, etiology, pathogenesis, clinical features, complications and management	1	2	a1,a2,b2
3	Diet, Nutrition and Dental Caries	Role of diet and nutrition in dental caries & sugar substitutes Diet counseling and dietary modifications Caries activity tests, caries prediction, susceptibility and their clinical application	2	4	a1,b2
4	Prevention of dental caries	- Diet control and NMES and sugar substitutes	1	2	a2,b1
5	Prevention by Fluoride -	- Mechanism of Action, water fluoridation and supplements	1	2	a1,b1
6	Midterm Exam	MCQs and essay questions	1	2	a1, a2, b1,b2,
7	Fluoride toothpaste and mouth rinses	Fluoride toothpaste and mouth rinses	1	2	a1,a2,b2
8	Flouride - Professionally Applied fluorides	Flouride - Professionally Applied fluorides	1	2	a1,b2
9	Mechanical and Chemotherapeutic home oral hygiene in pediatric dentistry-1	<input type="checkbox"/> Manual toothbrush, <input type="checkbox"/> Powered mechanical plaque removal dentifrices, <input type="checkbox"/> Floss, Interproximal Brushes, <input type="checkbox"/> End-tufted Brush, <input type="checkbox"/> Disclosing agents, <input type="checkbox"/> Tongue scrapers. <input type="checkbox"/> Oral irrigators	1	2	a2,b1
10	Mechanical and Chemotherapeutic	<input type="checkbox"/> Antiseptic agents, <input type="checkbox"/> Essential Oils,	1	2	a1,a2,b2

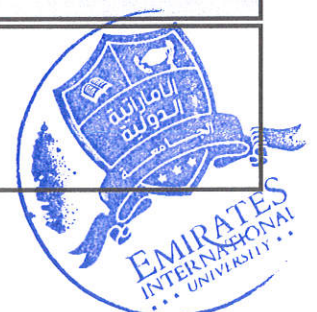
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	c home oral hygiene in pediatric dentistry-2	<input type="checkbox"/> Quaternary Ammonium Compounds, <input type="checkbox"/> Triclosan, <input type="checkbox"/> Stannous Fluoride, sugar substitutes, <input type="checkbox"/> Age-specific home oral hygiene instructions, <input type="checkbox"/> In-office oral hygiene programs			
11	Fluoride toxicity and fluorosis	definition diagnosis systemic effect dental effect fluorosis index treatment	1	2	a1,b2
12	Fissure sealants	definition indications types of sealant steps of application	2	4	a1,a2,b2
13	Clinical Aspects, Caries Diagnosis	new methods materials technology for caries diagnosis	1	2	a1,b2
14	Final Exam	MCQs and essay questions	1	2	a1, a2, b1,b2,
Number of Weeks /and Units Per Semester			16	32	

V. Teaching Strategies of the Course:

- Lectures
- discussions
- brainstorming
- Presentation

VI. Assessment Methods of the Course:

- Midterm Exam
- Final Exam
- Semester work



VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1 micro report about of FLOUROSIS	2 nd	4	a1,b1, d1,
2	Assignment 2 micro-report about HOME & OFFICE FLOURIDATION	4 th	4	a2,b2
3	Assignment 3 micro-report about FISSURE SEALANTS	8 th	4	a2,b1,d1,d2
4	Micro-assignment 4 in Diet&dental caries prevention	10 th	4	a1,b1,d1
5	Assignment 5 micro-report in CARIES DETECTION METHODS	12 th	4	a1,a2, d1
Total			20	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	2 nd , 4 th , 8 th , 10 th and 12 th	20	20%	a1, a2, b1, b2, d1, d2
2	Midterm exam	7 th	20	20%	a1, a2, b1,b2,
3	Final exam	16 th	60	60%	a1, a2, b1,b2,
Total			100	100%	

VIII. Learning Resources:

1- Required Textbook(s)

1- Amer, Assoc of Public Health Dentistry :Burt and Eklund's Dentistry, Dental Practice, and the Community 7th Edition, Saunders

2- Norman Harris.2013: Primary Preventive Dentistry (Primary Preventive Dentistry (Harris), 8th



Edition, Pearson

2- Essential References.

- 1- Joseph John: Textbook of Preventive and Community Dentistry: Public Health Dentistry Kindle Edition CBS PUBLISHERS AND DISTRIBUTORS PVT
- 2- Blanaid Daly ,2013: Essential Dental Public Health 2nd Edition Oxford University Press, Usa

3- Electronic Materials and Web Sites etc.

- 1- Journal of dental hygiene Journal of dental research
- 2- Journal of caries research
- 3- Journal of periodontal disease
- 4- Community dental health journal
- 5- www.cdjournal.org/journals
- 6- www.adha.org/jdh/guidlines.htm
- 7- www.jar.sagepub.com

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	<p>Class Attendance:</p> <p>Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p>Tardiness:</p> <p>A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p>Exam Attendance/Punctuality:</p> <p>No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p>Assignments & Projects:</p> <p>Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p>Cheating:</p> <p>Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p>Forgery and Impersonation:</p> <p>Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the</p>

	Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.



Faculty of Dentistry

Department of POP

Program of Doctor of Dental Surgery (DDS)

Course Plan (Syllabus) of Preventive Dentistry

Course No. (-----)

I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Abdulqader Zabarah	Office Hours				
Location & Telephone No.:	Sanaa 774443332	4 Hours Weekly				
E-mail:		SAT 1	SUN 1	MON 1	TUE 1	WED 1

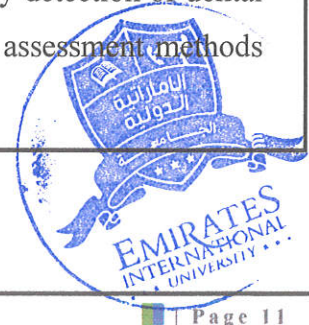


II. Course Identification and General Information:

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2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	-
4	Study Level/ Semester at which this Course is offered:	5th Level / 1st Semester			
5	Pre –Requisite (if any):	None			
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7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
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IV. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	List preventive strategies for both dental caries, both office based and home based methods.
a2	Explain the methods of prevention of dental caries using diet control and sugars substitutes.
	B. Intellectual Skills:
b1	Assess dental caries risk
b2	Formulate dental caries preventive regime.
	C. Professional and Practical Skills:
c1	Application of fluoride
	D. Transferable Skills:
d1	Adopt ethical standards in oral health programs and activities.
d2	Utilize available recourses for continuing education and development of the profession

V. Course Contents:

A. Theoretical Aspect:

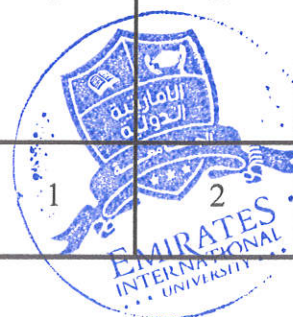
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction to preventive dentistry	- Definition, Scope, Objectives and Importance Levels, role of individual community and profession, fluorides in dentistry, plaque control programs.	1	2
2	Etiology of dental caries.	Diagnostic procedures and caries detection - Caries pattern in primary, young permanent and permanent teeth - Early childhood caries, rampant caries- definition, classification, etiology, pathogenesis, clinical features, complications and management	1	



V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
3	Diet, Nutrition and Dental Caries	Role of diet and nutrition in dental caries & sugar substitutes Diet counseling and dietary modifications Caries activity tests, caries prediction, susceptibility and their clinical application	2	4
4	Prevention of dental caries	– Diet control and NMES and sugar substitutes	1	2
5	Prevention by Fluoride –	– Mechanism of Action, water fluoridation and supplements	1	2
6	Midterm Exam	MCQs and essay questions	1	2
7	Fluoride toothpaste and mouth rinses	Fluoride toothpaste and mouth rinses	1	2
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9	Mechanical and Chemotherapeutic home oral hygiene in pediatric dentistry-1	<input type="checkbox"/> Manual toothbrush, <input type="checkbox"/> Powered mechanical plaque removal dentifrices, <input type="checkbox"/> Floss, Interproximal Brushes, <input type="checkbox"/> End-tufted Brush, <input type="checkbox"/> Disclosing agents, <input type="checkbox"/> Tongue scrapers. <input type="checkbox"/> Oral irrigators	1	2
10	Mechanical and Chemotherapeutic home oral hygiene in pediatric dentistry-2	<input type="checkbox"/> Antiseptic agents, <input type="checkbox"/> Essential Oils, <input type="checkbox"/> Quaternary Ammonium Compounds, <input type="checkbox"/> Triclosan, <input type="checkbox"/> Stannous Fluoride, sugar substitutes, <input type="checkbox"/> Age-specific home oral hygiene instructions, <input type="checkbox"/> In-office oral hygiene programs	1	2
11	Fluoride toxicity and fluorosis	definition diagnosis systemic effect	1	2



V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		dental effect fluorosis index treatment		
12	Fissure sealants	definition indications types of sealant steps of application	2	4
13	Clinical Aspects, Caries Diagnosis	new methods materials technology for caries diagnosis	1	2
14	Final Exam	MCQs and essay questions	1	2
Number of Weeks /and Units Per Semester			16	32

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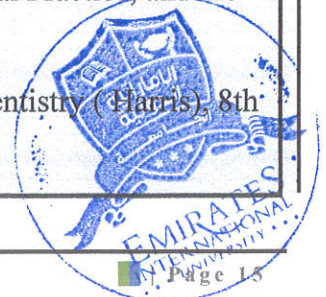
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