

Kingdom of Saudi Arabia
IbnSina National College for Medical Studies in Jeddah



Syllabus for PRINCIPLES OF OPERATIVE DENTISTRY (CDS 211)

(6 Credit Hours)

Year 3 - BDS

1435- 1436 H 2014 - 2015 G

WELCOME TO PRINCIPLES OF OPERATIVE DENTISTRY COURSE!

Dear Student,

I would like to welcome you to the "Principles of Operative Dentistry" Course.

This syllabus will show you brief knowledge related to the subject. During lectures you will notice that we will cover only the major aspects of the subject. The practical sessions will give you the opportunity to discuss in more details aspects which are unclear to you. The included lists of references will help you find more information.

This, at the same time, means that you are required to put more effort on self-directed learning strategies. Ultimately, you should be guided to become a lifelong learner.

Being aware of the fact that students worry too much about examinations, we have made an effort to disperse the assessment over the whole period. In the section on assessment you will see the details of this process.

As a coordinator, I will be there to receive your feedback and comments and to try to resolve any difficulties during the implementation of the course. Please do not hesitate to contact me at any time if you need any help. The other staff members teaching the course are also available for any help you may need in case you have subject-related enquiries.

I wish you an enjoyable and successful experience with the Principles of Operative Dentistry Course.

The Coordinator

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CURRICULUM MAP

YEAR 3							
SEMESTER	t	SEMESTER 1 SEMESTER 2	SEMESTER 2				
WEEKS	1 2	3 4 5 6 7 8* 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25* 26 27 28 29 30 31 32	33 34				
		PREVENTIVE DENTISTRY [COMD 221] 1 CR (1+0+0)	벁				
	Ι.	PREVENTIVE DENTISTRY [COMD 221] 1 CR (1+0+0) ORAL PATHOLOGY-I [OPAT 231] 2 CR (1+1+0) ORAL DIAGNOSIS-I [ODG 242] 2 CR (1+0+1) GENERAL MICROPIOL AND IMMUNOL [MICR 211] 3 CR (2110)	OF SEMESTER EXAM				
	l '	GENERAL MICROBIOL AND IMMUNOL [MICR 211] 3 CR (2+1+0					
		DENTAL PHARMACOLOGY-I [PHAR 211] 2 CR (2+0+0)	END				
SES	2 CR	ORAL BIOLOGY [BIOL 251] 3 CR (2+1+0) 1 CR					
COURSES	3 CR	PRINCIPLES OF OPERATIVE DENTISTRY [CDS 211] 6 CR (2+4+0)					
8	1 CR	LOCAL ANESTHESIA AND EXODONTIA [OSRG 211] 2 CR (2+0+0) 1 CR GENERAL PATHOLOGY [PATH 210] 4 CR (2+2+0) 2 CR					
	2 CR	GENERAL PATHOLOGY [PATH 210] 4 CR (2+2+0) 2 CR					
	3 CR	INTRODUCTION TO DENTURES [PROS 211] 6 CR (2+4+0)					
	2 CR	PHYSICS OF DIAGNOSTIC RADIOLOGY [RAD 241] 3 CR (1+0+2) 1 CR					
		TOTAL 15 CR TOTAL 19 CR					
	* MID-SEMESTER EXAM						

INTRODUCTION TO THE COURSE

"Principles of Operative Dentistry" is a continuous course that focuses on prevention, diagnosis and treatment of defects in enamel and dentin of individual teeth. This course has lectures for 1 hour and practical 3 hours every week.it introduces you to:

- Dental caries, causes, clinical features, diagnosis and treatment
- Different types of cavity preparation to restore the carious and non-carious lesions
- Restoring the integrity of the teeth with various restorative materials

The lectures will stress on steps in cavity preparation, pulp protection, hand and rotary instruments used in operative dentistry, restoring the integrity of teeth including function and esthetics by restorative materials.

In practical session, the students have to do cavity preparation and restoration on the typhodont teeth which is mounted in the phantom head.

GENERAL OBJECTIVES OF THE COURSE

Upon successful completion of this course, students will be able to:

- Identify the various hand and rotary instruments used in Operative Dentistry.
- Diagnose lesions of hard tooth tissues and in particular dental caries, excavate carious lesions, and cleave unsupported enamel of mounted extracted teeth, using suitable hand instruments.
- Classify carious lesions and recognize a proximal caries on a bitewing radiograph.
- List the methods of isolation of the operative field and apply the rubber dam.
- Name the parts of prepared simple and compound cavities
- Prepare simple class I and V cavities for amalgam and manipulate rotary and hand instruments.
- Discuss the basic principles, techniques and rational of operative procedures and apply them.
- Present a step-by-step procedure for each cavity preparation and cavity restoration.
- Grasp training in different operations (cavity preparation and restoration) by doing specific standardized exercises on Typodont (Plastic) Models mounted on mannequins.
- Grasp training in these operations in a situation similar to the clinical set-up.

COURSE CONTENTS

N.	Title	Subject	Teacher					
	Lectures							
	Semester I							
L 1	Introduction to Operative Dentistry							
L 2	Nomenclature & Dental Terminology		Dr. Siddig Ahmed					
L 3	Different Tooth numbering systems		Dr. Siddiq Arimed					
L 4	Cavity classification (Gv Blacks)							
L 5	General Principles of the cavity preparation		Dr. OlaBarakat					
L 6	Class –I cavity preparation for Amalgam	Principles of Operative	DI. Olabalakal					
L 7	Class-V cavity preparation for Amalgam		Dr. AnkurDua					
L 8	Instruments In operative Dentistry	Dentistry	Dr. Siddig Ahmed					
L 9	Instruments In Operative Dentistry	Dentistry	Dr. Sladiq Anined					
L 10	Instruments in operative dentistry		Dr. AnkurDua					
L 11	Dental Caries		Dr. PrabuMahin					
L 12	Dental Amalgam							
L 13	Dental Amalgam		Dr. Kiran Kumar					
L 14	Dental Amalgam							

	Semester II			
L 1	Class-II cavity preparation for Amalgam		Dr. OlaBarakat	
L 2	Class-II cavity Preparation for Amalgam			
L 3	Amalgam Restoration		Dr. Kiran Kumar	
L 4	Matrices		Dr. PrabuMahin	
L 5	Pulp protection Materials		Dr. AnkurDua	
L 6	Pulp Protection materials		Di. / lintar Daa	
L 7	Composite Resin Material	Principles of		
L 8	Composite Resin material	Operative	Dr. Ahmed Adel	
L 9	Class-III and class-IV	Dentistry		
L 10	Glass Ionomer Cements	·	Dr. PrabuMahin	
L 11	Glass Ionomer Cements			
L 12	Operators and patients position in operative dentistry		Dr. Siddiq Ahmed	
L 13	Wedges		Dr. PrabuMahin	
L 14	Finishing and Polishing of amalgam		DI. Flabulvialilli	
L 14	restoration		Dr. Siddiq Ahmed	
	Practical Session	ons		
	Semester I			
P 1	Introduction to operative dentistry			
P 2	Hand piece exercise – Box shape and			
	round shape cavity preparation on 36			
P 3	Class I cavity for amalgam on 36 and 46			
P 4	Class I cavity for amalgam on 35 and			
	15,buccal pit on 36			
P 5	Class I cavity for amalgam on 37,			
	Conservative Class I cavity for amalgam on			
P 6	26 Conventional class I cavity on 16, class V			
P 0	cavity on 36.			
P 7	Occlusobuccal class I on 36,occlusopalatal	-		
' '	class I on 46			
P 8	Class II cavity preparation for amalgam on	Principles of	Dr. Siddiq Ahmed	
	36(MO)	Operative	Dr. AnkurDua	
Р9	Class II cavity preparation for amalgam on	Dentistry	Dr. PrabuMahin	
	36(MOD)			
P 10	Class II cavity preparation for amalgam on			
	15(MO),45(DO)			
P 11	Base application and Amalgam restoration			
D 40	of class I cavity on 36,46			
P 12	Matrix band application and Amalgam			
	restoration of class II cavity on 36(MO),			
P 13	46(MO). Amalgam restoration of Class II cavity on			
гз	15(MO), 45(DO).			
P 14	Polishing and finishing of class II amalgam			
	restorations			
	Semester II			
P 1	Class I cavity for composite on 36 and	Principles of	Dr. Siddiq Ahmed	
	composite restoration, Rubber Dam	Operative	Dr. AnkurDua	
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	Demonstration	Dentistry	Dr. PrabuMahin
P 2	Class I cavity for composite on 47 and		
	composite restoration.		
P 3	Class I cavity for composite on 14 and 34		
	and composite restoration.		
P 4	Occlusobuccal class I cavity for composite		
	on 46, occlusopalatal class I cavity for		
	composite on 16.		
P 5	Class II cavity preparation for composite on		
	16 (MO), 26(DO) and composite		
	restoration.		
P 6	Class II cavity preparation for composite on		
	46 (MO) and composite restoration		
P 7	Class II cavity preparation for composite on		
	36 (MOD) and composite restoration		
P 8	Class III cavity preparation for composite on		
	12 and 22 and composite restoration		
P 9	Class IV cavity preparation for composite		
	on 11 and Composite restoration of class IV		
	cavity		
P 10	Class IV cavity preparation for composite		
	on 21 and Composite restoration of class IV		
	cavity		
P 11	Class V cavity preparation on 37 and glass		
	ionomer restoration		
P 12	Caries excavation on natural extracted		
	teeth on 36 or 46, class I cavity preparation		
	and restoration with amalgam		
P 13	Caries excavation on natural extracted		
	teeth on 36 or 46, class II cavity preparation		
	and restoration with amalgam		
P 14	Caries excavation on natural extracted		
	teeth on 36 or 46, class II cavity preparation		
	,pulp protection and restoration with		
	composite		

COORDINATOR AND TEACHERS OF THE COURSE

N°.	Name	Division	Ext #	Room #	E-mail	Office Hours		
Coor	Coordinator and Teacher:							
Dr. SiddiqAhmed		Restorative Dentistry	358	366	siddiqendo@gmail.com	Thursday 1 to 4PM		
Teac	Teachers:							
1	Dr.Jayalakshmi	Restorative Dentistry	343	247	vishwajaya@gmail.com	Tuesday 1 to 4PM		
2	Dr. Ola Barakat		225	275	olarhm@hotmail.com			

3	Dr. Ahmed Adel	362	365	drahmedadel@hotmail.co m	Thursday1 to 4PM
5	Dr.Kiran Kumar	457	361	drkiranendo@gmail.com	Monday 1 to 4PM
6	Dr.AnkurDua	458	361	ankurdua@gmail.com	Monday 1 to 4PM
7	Dr.PrabuMahin	360	362	mahin_1973@yahoo.com	Monday 1to 4PM

LEARNING RESOURCES

Textbooks:

- Sturdevant's Art and Science of Operative Dentistry, 5th edition
- Craig 's dental restorative materials 12th edition
- Pickard's Manual of Operative Dentistry, 7th edition

STUDENT ASSESSMENT

1. Formative Assessment:

Students are encouraged to answer the oral questions in the first ten minutes time of the lectures.

2. Summative Assessment:

Method	Type of questions	Timing	Distribution of
			marks
Mid-semester 1	Written (MCQ)	8 th Week	10
End of Semester 1	Written (MCQ)	16 th and 17 th Weeks	15
Mid-semester 2	Written (MCQ)	25 th Week	10
End of Semester 2	Written (MCQ)	33 rd and 34 th Weeks	25
Competency Test	Practical		20
(CT)			
Minimum Procedural	Practical		20
Experience (MPE)			
		Total	100