





Course Specifications

Course Title:	Pre-clinical operative dentistry	
Course Code:	RDS 213	
Program:	Bachelor of Dental Surgery (BDS)	
Department:	Restorative dental sciences	
College:	College of Dentistry in Alzulfi	
Institution:	Majmaah University	

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A. Course Identification

1. Credit hours:
2. Course type
a. University College / Department / Others
b. Required / Elective
3. Level/year at which this course is offered:
level 3 and level 4 & 2 nd year
4. Pre-requisites for this course (if any): 111 RDS, 122 RDS
5. Co-requisites for this course (if any): none

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	20%
2	Blended	NA	
3	E-learning	NA	
4	Correspondence	NA	
5	Other	120	80%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours		
Conta	ct Hours	·		
1	Lecture	30		
2	Laboratory/Studio	120		
3	Tutorial			
4	Others (specify)			
	Total	150		
Other	Other Learning Hours*			
1	Study			
2	Assignments	30		
3	Library			
4	Projects/Research Essays/Theses			
5	Others(specify)			
	Total	30		

^{*}The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course should help the students to understand the basics of operative dentistry, like diagnosis and management of various dental defects, cavity preparation, instrumentation and restorative procedures. This will help them in future advanced clinical training.

2. Course MainObjective

This course continues on building students' knowledge &Understanding related to the application of a systematic approach to the diagnosis & management of Dental caries and various other dental defects. In addition the students will be familiar with the operative instruments &equipments in the simulated preclinical operatory (Phantom Head lab) and learn how to use them in necessary clinical procedures. During assigned preclinical sessions, Students will apply their acquired knowledge and skills to perform various dental operative procedures in simulated conditions to prepare themselves for future clinical training.

3. Course Learning Outcomes

CLOs		AlignedPLOs
1	Knowledge:	
K3.1	To recall various procedures needed to be implemented in practicing dentistry.	K3
2	Skills:	
S3.1	To develop skills in identifying& classifying the dental diseases based on extent of involvement.	S3
S6.1	To demonstrate skills on good hand-eye coordination in treating the dental diseases.	S6
3	Competence:	
C2.1	To demonstrate reasoning and ideology based treatment among the students	C2

C. Course Content

List of Topics	Contact hours
Introduction to the course:	
Definition and history	
Factors affecting operative treatment	1
Future of operative dentistry	

Introduction Goals of isolation Advantages Methods of isolation Class I Amalgam Cavity Preparation: Outline form Convenience form Retention form Resistance form Pulp protection finishing Class V Amalgam Cavity Preparation: Outline form Convenience form Retention form Resistance form Retention form Resistance form Pulp protection finishing Restoration of class I and Class V with Amalgam: Amalgam manipulation Restorative procedure Finishing and Polishing of Amalgam Restorations: Rationale Material used Procedure Class II Amalgam Cavity Preparation: Outline form Convenience form Retention form Restoration for Class I and Class V with Amalgam: 1 Procedure Class II Amalgam Cavity Preparation: Outline form Convenience form Restention form Restention form Restention form Restention form Restention form Restention form Restoration form Restention form Restoration form Restention fo	Isolation and Control of the Operating Field:	
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Dental Matrices: Definition, Uses, Requirements, Types and their Application: Definition Uses Requirements Types		
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Uses Requirements Types		
Requirements Types	Definition	
Requirements Types	Uses	_
Types	Paguiraments	1
	i nequirements	
Amuliantian	Types	
Application	Application	

Restoration of Class II, Finishing & Polishing Amalgam:	
Restorative procedure	1
Finishing & polishing procedure	
Composite Resin Material Part I: History, Composition, Types,	
Advantages, Disadvantages, Indications and Contraindications:	
History	
Composition	
Туреѕ	1
Advantages	_
Disadvantages	
Indications	
Contraindications	
Principles of Tooth Preparation for Composite:	
Introduction	
General considerations	
Clinical technique	1
Tooth preparation	
Common problems: causes and potentialsolutions	
Restoration Class III Composite Resin Cavity Preparation:	
Outline form	
Convenience form Retention form	
Resistance form	1
Pulp protection	
finishing	
Class IV, V Composite Resin Cavity Preparation:	
Outline form	
Convenience form	
Retention form Resistance form	1
Pulp protection	
Finishing	

Bonding and Restorative Procedure:	
Chemicals used for etching	
Effect of etching on tooth structure	
Advantages of etching	1
Different Bonding agents	
Restorative Procedure	
Finishing & polishing	
2 nd Semester:	
Pit and Fissure Sealant, Preventive Resin Restorations and Minimal Preparation for Posterior Composite: Introduction	
Types	4
Technique	1
Guidelines for application	
Direct Posterior Composite Restoration: Introduction	
Indications	
Contraindication	1
Advantages	
Technique	
Durability	
Glass Ionomer Cement (Material): Introduction	
Types	
Composition	
Manipulation	1
Fluoride release	
Physical properties	
Uses	

Glass Ionomer Cement (Clinical Manipulation):	
Introduction	
Manipulation	1
Clinical procedures	
Finishing	
Resin Modified Glass Ionomer and Compomers:	
Introduction	
Types	
Composition	
	1
Manipulation	_
Fluoride release	
Physical properties	
Uses	
Pulp Protection by the Use of Insulating Bases and Liners:	
Introduction	
Rationale for pulp protection	
materials	1
Indications	
manipulation	
Functions	
Principles of Tooth Preparation for Cast Gold Restorations:	
Introduction	
Indications	
Contraindications	1
Advantages	
Disadvantages	
Clinical technique	

Tooth Preparation for Cast Gold Inlay Restorations: Introduction	$\langle - \rangle \rangle \langle \langle$
Indications	
Contraindications	1
Advantages	
Disadvantages	
Clinical technique	
Tooth Preparation for Cast Gold Onlay Restorations: Introduction	
Indications	
Contraindications	1
Advantages	
Disadvantages	
Clinical technique	
Provisional Restorations: Introduction	
Indications	
Advantages	1
Materials	
Clinical technique	
Indirect Posterior Esthetic Restorations (I, II): Introduction	
Indications	
Contraindications	1
Advantages	
Disadvantage	
Clinical technique	
Failure of Restoration: Introduction	
Etiology	
Prevention	1

Failure of restoration:	
Correction	1
Management	
Biological Influence of Restorative Procedures and Materials:	
Introduction	
Biological effects of different restorative materials	1
Mechanism	
Biological Influence of Restorative Procedures and Materials:	
Potential hazards	1
Prevention	

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
K3.1	To recollect and implement various procedures needed in practicing dentistry.	Lectures, preclinical lab sessions	Pre-clinical examWritten examOral exam
2.0	Skills		
S3.1	To develop the ability in identifying dental diseases and classifying them based on extent of involvement.	Lectures, preclinical lab sessions	Pre-clinical examWritten examOral exam
S6.1	To exhibit and perform procedures in treating the dental diseases	Lectures, preclinical lab sessions	Pre-clinical examWritten examOral exam
3.0	Competence		
C2.1	To discuss and exhibit various treatment procedures among the dental students	Preclinical lab sessions	 Approved procedures documented in logbook Preclinical exam

2. Assessment Tasks for Students

	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
	Quiz / assignment		5%
1		During the	
		semeste r	
2	Midyear theory exam		15 %
		12 ^{th week}	
3	Final theory exam	25 ^{th week}	15%
4	Weekly Assessment Practical	During the	30%
4		semester	
5	Mid- Year Practical	11 ^{th week}	10%
6	Final practical exam	24 ^{th week}	25%

^{*}Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Students will be able to see the office hours and availability of teaching staff This will be put in front of the office.
- Academic advising units for each year monitor separately and brief the students feedback accordingly

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	✓ Sturdevant,s Art and Science of Operative Dentistry, Harald O.Heymann, Edward J. Swift jr and Andre V. Ritter. Elsevier. 2012	
Essential References Materials	 ✓ Fundamentals of operative Dentistry; A contemporary Approach , James B. Summitt, J William , Robbins , Thomas J . Hilton , Richard S2006 ✓ Pickard,s Manual of operative Dentistry . Avijit Banerjee, Timothy F . Watson . Oxford 2011 	
Electronic Materials	 Recommended selected articles will be posted in the course webpage. www.pubmed.com 	

	Googlewww.sciencedirect.com
Other Learning Materials	LibraryComputersProjectsDiagnostic instruments

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	✓ Lecture room suitable for 30 students ✓ Fully equipped dental clinics for practical sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	✓ Projector✓ Smart board with all the accessories✓ Internet
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	✓ Sterilization equipment ✓ Dental clinics

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and	Students	✓ Course Evaluation Survey
assessment		✓ Quality of Exam Survey
	Faculty	✓ CLO Mapping with teaching &
		assessment.
		✓ Course Blueprinting
		✓ Grade Analysis
		✓ Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of	Faculty member / Quality	✓ Direct assessment outcome
course learning outcomes	assurance committee	analysis
		✓ Course report preparation
Quality of learning resources,	Students / Faculty	✓ Academic advising survey
etc		✓ Student experience survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality oflearning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) **Assessment Methods**(Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	
Date	