



# Course Specifications

<b>Course Title:</b>	<b>Clinical Operative Dentistry-1</b>
<b>Course Code:</b>	<b>RDS 313</b>
<b>Program:</b>	<b>Bachelor of dental surgery (BDS)</b>
<b>Department:</b>	<b>Restorative Dental Science (RDS)</b>
<b>College:</b>	<b>College of dental medicine, Al Zulfi</b>
<b>Institution:</b>	<b>Majmaah University</b>

## Table of Contents

<b>A. Course Identification</b> .....	<b>3</b>
6. Mode of Instruction (mark all that apply) .....	3
<b>B. Course Objectives and Learning Outcomes</b> .....	<b>3</b>
1. Course Description .....	3
2. Course Main Objective .....	4
3. Course Learning Outcomes .....	4
<b>C. Course Content</b> .....	<b>5</b>
<b>D. Teaching and Assessment</b> .....	<b>6</b>
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods .....	6
2. Assessment Tasks for Students .....	6
<b>E. Student Academic Counseling and Support</b> .....	<b>7</b>
<b>F. Learning Resources and Facilities</b> .....	<b>7</b>
1. Learning Resources .....	7
2. Facilities Required .....	7
<b>G. Course Quality Evaluation</b> .....	<b>8</b>
<b>H. Specification Approval Data</b> .....	<b>8</b>

## A. Course Identification

<b>1. Credit hours:</b> 3
<b>2. Course type</b>
a. University <input checked="" type="checkbox"/> College <input checked="" type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 3 <sup>rd</sup> Year
<b>4. Pre-requisites for this course (if any):</b> 213 RDS
<b>5. Co-requisites for this course (if any):</b> NA

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	105	80%
2	Blended		
3	E-learning		
4	Correspondence		
5	Other	40	20%

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	15
2	Laboratory/Studio	90
3	Tutorial	
4	Others (specify)	
	<b>Total</b>	105
<b>Other Learning Hours*</b>		
1	Study	20
2	Assignments	10
3	Library	10
4	Projects/Research Essays/Theses	
5	Others (specify)	
	<b>Total</b>	40

\* 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

It is a one-year course, given as a one-hour lecture in the 1<sup>st</sup> semester of 3<sup>rd</sup> year BDS program and three hours of Clinical session in both semester of 3<sup>rd</sup> year BDS program.

This course comprises of theoretical and practical component. The theoretical component is designed to give the third year students basic cognitive knowledge of the principles, terminology, instruments, materials and techniques utilized in the practice of Operative Dentistry. The practical component provides the student with the experience in the application of restorative procedures for managing the carious process on patients. The student should perform a series of clinical exercises utilizing current instrumentation, materials, and techniques to manage the carious lesions.

### 2. Course Main Objective

The main purpose for this course is

- Take a comprehensive patient history and relate it for diagnosis and treatment.
- Make diagnosis and treat caries according to risk assessment.
- To know how to place a rubber dam isolation for operative procedures.
- Select and use appropriate restorative material for restoration of damaged teeth tissues

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge:</b>	
K3.20	Recall the medical, dental and other concepts needed for the practice of dentistry.	K3
2	<b>Skills :</b>	
S3.8	Develop critical thinking and reasoning skills to formulate management plan of dental disorders.	S3
S6.5	Demonstrate hand-eye coordination skills for clinical examination, diagnosis and treatment of different dental rehabilitation procedures.	S6
3	<b>Competence:</b>	
C3.3	Demonstrate effective communication skills with the patients, their families and all members of the health team including documentation.	C3

### C. Course Content

No	List of Topics	Contact Hours
.1	Introduction to Operative Dentistry.	1
.2	Examination, Diagnosis and Treatment Planning I	1
.3	Examination, Diagnosis and Treatment Planning II	1
.4	Dental Caries: Diagnosis and Clinical Manifestation	1
.5	Dental Caries: Caries Risk Assessment and Management	1
.6	dam rubber Control of Moisture –	2
.7	Concepts of Conservative Cavity Design and Management	2
.8	Pulp Protection: Bases and Liners	1
.9	Tooth-Colored Restoration: Part I – Adhesive Dentistry	1
10.	Tooth-Colored Restoration: Part II – Anterior Composite Restoration	1
11.	Tooth-Colored Restoration: Part III – Posterior Composite Restoration	1
12	Tooth-Colored Restoration: Part IV – Glass Ionomer Cements (GIC)	1
.13	Tooth-Colored Restoration: Part V – Resin Modified GI and Polyacids Modified Composite	1
<b>Total</b>		<b>15</b>

## D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>Knowledge</b>			
PIK3-2	Recall the medical, dental and other concepts needed for the practice of dentistry	Lectures, textbook, articles, discussion, audio-visual, live demonstration & clinical exposure of the students	<ul style="list-style-type: none"> <li>▪ Written exam.</li> <li>▪ Quiz</li> <li>▪ Practical / clinical exam.</li> <li>▪ OSPE .</li> <li>Assignments.</li> </ul>
<b>Skills</b>			
PIS3-1	Develop critical thinking and reasoning skills to formulate management plan of dental disorders.	Case presentations, Formulate Treatment plans, Practicals	<ul style="list-style-type: none"> <li>▪ Written exam.</li> <li>▪ Quiz</li> <li>▪ Practical / clinical exam.</li> <li>▪ OSPE .</li> <li>Assignments.</li> </ul>
PIS6-2	Demonstrate hand-eye coordination skills for clinical examination, diagnosis and treatment of different dental rehabilitation procedures.	Clinical training on isolation procedures, cavity preparations and placement of restorative materials. 2. Check list for self-assessment of the task, Individualized attention for correction of mistake & grading of the task.	<ul style="list-style-type: none"> <li>▪ Practical / clinical exam.</li> <li>▪ OSPE</li> <li>▪ Case based scenario/ problem based learning</li> <li>▪ Approved procedure documented in log book</li> </ul>
<b>Competence</b>			
PIC3-1	Demonstrate effective communication skills with the patients, their families and all members of the health team including documentation.	1. Students will be assigned to a particular patient and will be held responsible – 2. Practical sessions with group discussion 3. Teach students how to deal with different patients' personalities and attitudes	<ul style="list-style-type: none"> <li>▪ Practical / clinical exam.</li> <li>▪ OSPE / OSCE.</li> <li>▪ Case based scenario / Problem based learning.</li> <li>▪ Approved procedures documented in logbook.</li> <li>▪ Research assignment</li> </ul>

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz	During the semester	%5
2	Midterm written exam	Week 7	%15
3	Final written exam	End of the semester	%15
4	Weekly Practical assessment	During the semester	%30
5	Presentation	During the semester	%5
6	and attitude Behaviour	During the semester	%5
7	practical exam Final	End of the Semester	%25
8			

\*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 :

The student shall avail the consultancy during the displayed office hours

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	Fundamentals of Operative Dentistry: A Contemporary Approach. James B Summit, J. William Robbins, Thomas J Hilton, Richard S Schwart, Jose Dos Santos Jr. Quintessence Pub Co, 3rd edition, 2006.
<b>Essential References Materials</b>	Sturdevant's Art and Science of Operative Dentistry. Harald O. Heymann, Edward J. Swift Jr. and Andre V. Ritter. Elsevier, 6th edition, 2012. Pickard's Manual of Operative Dentistry. Avijit Banerjee, Timothy F. Watson. Oxford, 9th edition, 2011.
<b>Electronic Materials</b>	Use of Pubmed engine search
<b>Other Learning Materials</b>	-

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Class room for lectures for 23 students Equipped dental clinics
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.))	Lap top for audiovisual support. Data show projector. Internet connection
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment list) a is required, list requirements or attach	Equipped dental units. Hand instruments for clinical sessions. Dental biomaterials for exercises.

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Course Evaluation Survey 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, etc	Students / Faculty	Academic advising survey Student experience survey

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning 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	26/1/1441 H