

Course Specification Student Version

Course Title:	Preclinical Operative Dentistry - I
Course Code:	RDC 311
Department:	Dentistry
Program:	Bachelor of Dentistry
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2024

A. Course Identification

1. Credit hours: 3 (1+2+0)
2. Level/year at which this course is offered: Level 5/Year 3
3. Pre-requisites for this course (if any): RDC 211
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lectures
2	Practical Sessions

C. Course Description and Objectives

This 3-hour course is the first pre-clinical operative course. It consists of con didactic and practical components. Give the student a theory background about the field of Operative Dentistry, the principles of cavity preparations for the currently available restoratives, The physical and manipulative characteristics of restorations and covering some of the basic technical aspects relates to the use of Rubber Dam as one of the best techniques for moisture control in oral cavity.

2. Course Main Objective

At the end of this course, students will be able to:

- Identify the various hand and rotary instruments used in Operative Dentistry.
- Explain different methods of isolation of the operative field.
- List the basic principles of cavity preparation.
- Present a step-by-step procedure for each cavity preparation and restoration.
- Train the students in different operations (cavity preparation and restoration) by doing specific standardized exercises on Typodont Models mounted on mannequins.
- Train the students in the operative field in a situation like the clinical set-up.
- Train the students to recognize their own mistakes and how to correct them.

3. Course Objectives

By the end of this course, students should be able to:

- List basic characteristics, advantages and disadvantages of the commonly used instruments in operative field
- Describe basic principles, different techniques and goals of isolation
- Explain the fundamental principles of cavity preparation and restoration
- List basic characteristics, advantages & disadvantages and uses of amalgam
- Discuss basic characteristics, advantages & disadvantages and steps of complex amalgam restorations
- List basic characteristics, advantages & disadvantages and methods of finishing and polishing amalgam restorations

- Perform different pre-clinical dental procedures such as handling different instruments and equipment and manipulating materials for different clinical dental procedures.
- Prepare class I, II and V amalgam cavity preparation & restoration
- Establish collaborative teamwork and leadership responsibility in dental lab

D. Course Content

No	List of Topics
1	Introduction to operative dentistry (Nomenclatures and Definitions)
2	Instruments used in Operative Dentistry (hand & rotary instruments)
3	Isolation and control of the operating field
4	The general principles of cavity preparation
5	Class I Amalgam cavity preparations
6	Class I Amalgam cavity restoration
7	Class V Amalgam cavity preparations & restoration
8	Dental Matrices used in operative field
9	Complex amalgam preparations and restorations
10	Amalgam finishing and polishing
11	Simulation laboratory sessions

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Written Exam (Midterm)	15%
2	Written Exam (Quizzes)	5%
3	Simulation-Based assessment	30%
4	Objective Structured Practical Examination (OSPE)	20%
5	Written Exam (Final)	30%
	Total	100%

F. Learning Resources

Essential References	Sturtevant's Art and science of operative dentistry. Seventh edition (2018)
Supportive References	-
Electronic Materials	Dentistry Online Web site / YouTube channel
Other Learning Materials	CD available with Sturdivant's textbook.

