



Jordan University of Science and Technology
Faculty of Dentistry
Dental Surgery Department

DENT343 Operative Dentistry
First Semester 2023-2024

Course Catalog
3 Credit Hours. This blended course has a synchronous online theory component (Operative Dentistry; Dent343(503432) and on-campus practical component (Operative Dentistry Lab; Dent343(503433). The theory 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 students with the basic operative dentistry skills required in the preparation and restoration of class I to V lesions. They should perform a set of exercises in a simulation lab in a manner that is as close as possible to the clinical situation. Teaching & Learning Methods: -JUSTLearn (e-learning website) -Quizzes and exams -Textbook reading assignments

Text Book	
Title	The Art & Science of Operative Dentistry
Author(s)	Andre V Ritter; Lee W Boushell; Ricardo Walter; Clifford M Sturdevant
Edition	7th Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Fundamentals of Operative Dentistry.	James B. Summitt, J. William Robbins, Richard S. Schwartz, Fourth edition.	4th Edition	

Instructor	
Name	Dr. Maram Jaradat
Office Location	Dental Teaching Center Level 1, Irbid
Office Hours	
Email	mejaradat@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Thu : 10:30 - 11:30 Room: مدرج الفاروق

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction	From Ref #1
Week 2	Classifications and fundamentals of tooth preparation	Chapter 4 From Ref #1
Week 3	Class I amalgam restorations	Chapter 10 From Ref #1
Week 4	Class II amalgam restorations	Chapter 10 From Ref #1
Week 5	Instruments used in Operative Dentistry	Chapter 14 + Handouts From Ref #1, Chapter 7 From Ref #2
Week 6	Variations in Tooth Preparation Design & Complex Amalgam	Chapter 10 From Ref #1, Chapter 12 From Ref #2
Week 7	Resin-based composite restorations I	Chapter 8 From Ref #1
Week 8	Midterm Exam Week	
Week 9	Resin-base composite restorations II	Chapter 8 From Ref #1
Week 10	Preparation and restoration of class V lesions	chapter 8 & 10 From Ref #1
Week 11	Liners & bases	Chapter 4 + Handout From Ref #1
Week 12	Management of deep caries	Chapter 4 + Handout From Ref #1
Week 13	Instruments used in Operative Dentistry II	Chapter 14 + Handout From Ref #1, Chapter 7 From Ref #2

Week 14	Review lecture	+Handout From Ref #1, +Handout From Ref #2
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Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
List and differentiate between different methods of cavities classifications. [12. Cognitive, 12. Cognitive]	6%	
Identify the component parts of a prepared cavity. [12. Cognitive]	6%	
List and describe the basic steps in cavity preparation, in order or sequence [12. Cognitive]	6%	
Identify instruments by name and use. [12. Cognitive]	6%	
Describe and give reasons for the differences between the cavity preparation for amalgam and resin composite. [12. Cognitive]	7%	
List the basic physical properties of and describe differences between amalgam and resin composite. [12. Cognitive]	10%	
List the steps in placement and describe the differences in these steps for amalgam and resin composite. [12. Cognitive]	13%	
List and describe differences between finishing and polishing techniques for amalgam and resin composite. [12. Cognitive]	16%	
List the basic physical properties of glass ionomer, differentiate between different types of glass ionomer materials and their uses. [12. Cognitive]	10%	
Describe the materials and techniques used in caries removal and pulp protection, including burs, spoon excavators, cavity liners, and temporary restorative materials. [12. Cognitive]	10%	
Identify the basic positions for the operator while performing operative dentistry procedures. [12. Cognitive]	10%	

Relationship to Program													
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.	2.	2.	3.	3.
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	Cognitive:	Cognitive	Cognitive	Cognitive	Cognitive	Cognitive	Cognitive	Psychomotor/manual	Psychomotor/man
									3	97			

Evaluation	
Assessment Tool	Weight
Midterm theory exam	15%
Midterm practical exam	15%
Final theory	25%
Final practical exam	35%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete and makeup exams need approval from the dean. Theory makeup and incomplete exams will be in the essay format.
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the university regulations.
Attendance	Attendance will be recorded in the lecture and lab and uploaded the online systems regularly. University regulation in this matter will be followed strictly. No excuses will be given.
Participation	Highly encouraged. Lectures will be delivered in an interactive method to substantiate student?s role in thinking and learning.
Laboratory	Student should attend all lab sessions and do the required exercise at the time of the lab; late work will not be graded by any instructor.
Withdraw	According to university regulations.

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