



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

DENT343 Operative Dentistry(Lab)
First Semester 2021-2022

Course Catalog
0 Credit Hours. This practical course provides 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 possible, to the clinical situation utilizing current instrumentation, materials, and techniques learned in the theory part of this course; Dent343(503432). Teaching & Learning Methods: -JUSTLearn (e-learning website) -Quizzes and exams -Textbook reading assignments -Lab demonstrations and videos -Extra self-training lab sessions if the schedule permits

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

**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	4th Edition	

Instructor	
Name	Dr. MOHAMMAD ATIEH
Office Location	D1L0
Office Hours	Sun : 10:30 - 12:30 Mon : 10:30 - 12:30 Tue : 10:30 - 12:30
Email	maatieh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 12:30 - 16:30 Room: U  Section 2: Lecture Time: Mon : 12:30 - 16:30 Room: U  Section 3: Lecture Time: Tue : 12:30 - 16:30 Room: U  Section 4: Lecture Time: Wed : 12:30 - 16:30 Room: U  Section 5: Lecture Time: Thu : 12:30 - 16:30 Room: U  Section 6: Lecture Time: Wed : 08:30 - 12:30 Room: U  Section 7: Lecture Time: Thu : 08:30 - 12:30 Room: U

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to the lab; patient and operator positions; and basic Operative Dentistry Instruments.	From Ref #1, From Ref #2

Week 2	Handpiece exercise using Nissin preparation plate	Chapter 15 From Ref #1
Week 3	LR6 class I amalgam preparation and restoration	Chapter 10 From Ref #1
Week 4	Training on LR6 class I amalgam preparation and restoration	Chapter 10 From Ref #1
Week 5	UL6 class I OL amalgam preparation and restoration	Chapter 10 From Ref #1
Week 6	LR6 class II MO amalgam preparation and restoration	Chapter 10 From Ref #1
Week 7	Training for the midterm practical exam	
Week 8	Midterm practical exam (Class I amalgam preparation and restoration on a pre-prepared tooth)	
Week 9	UR6 class II DO amalgam preparation and restoration	Chapter 10 From Ref #1
Week 10	UL4 class II MO resin-based composite preparation and restoration(rubber dam isolation and use of sectional matrix)	Chapter 5,8,15 From Ref #1
Week 11	UR1 class III , UL1 class IV resin-based composite preparation and restoration(Under rubber dam isolation)	Chapter 5,8,15 From Ref #1
Week 12	Class V resin-based composite preparation and restoration(Under rubber dam isolation)	Chapter 5, 8, 15 From Ref #1
Week 13	Caries excavation, liner application and temporization	Chapter 4 From Ref #1
Week 14	Training for the final practical exam	
Week 15	Final practical exam ( Class II preparation on upper molar and amalgam restoration on a pre-prepared upper premolar)	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Learn and practice different operator and patient positions. [1Operative dentistry]	4%	
Identify and use basic operative dentistry materials, instruments and techniques. [1Operative dentistry]	4%	
Learn and practice multiple teeth rubber dam isolation. [1Operative dentistry]	4%	
Learn and practice the use of different matrix systems. [1Operative dentistry]	4%	
Apply the knowledge learned about preparation design principles and instruments in preparing teeth for amalgam, composite and glass ionomer. [1Operative dentistry]	20%	
Apply the knowledge learned about instruments, materials and techniques in the restoration of preparations with amalgam, composite and glass ionomer. [1Operative dentistry]	20%	
Apply the basic knowledge learned about occlusion in the preparation and restoration of teeth. [1Operative dentistry]	4%	
Learn and practice polishing of amalgam, composite and glass ionomer restorations. [1Operative dentistry]	20%	
Learn and practice caries removal, pulp protection, and temporization. [1Operative dentistry]	20%	

Relationship to Program Student Outcomes (Out of 100%)														
Taking History and clinical Examination for complete or partial denture patients Primary impressions	Border molding using tracing compound and secondary impressions using ZOE impression material	Jaw registration	Wax-try-in	Insertion of finished dentures	Professionalism	Infection control	Comprehensive dental care	Dental Caries	Operative dentistry	Endodontics	Restoration of badly broken teeth	Knowledge-pediatric dentistry	Written assignments	Clinical skills: pediatric dentistry
									100					

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