



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

DENT716 Advanced Restorative Dentistry 3
First Semester 2021-2022

<b>Course Catalog</b>
2 Credit Hours. This course will be a continuation for Advanced Restorative Dentistry 2. The course consists of many lectures on the domains of restorative dentistry. It will provide students with advanced knowledge regarding treating patient in all aspects of restorative dentistry. It covers advanced endodontic treatment; advanced adhesive strategies, esthetic rehabilitation of anterior teeth; porcelain laminate veneers, indirect ceramic restoration (inlays, onlays); crown and fixed partial denture planning, designing and preparation principles.

<b>Text Book</b>	
<b>Title</b>	Summitt's Fundamentals of Operative Dentistry : A Contemporary Approach
<b>Author(s)</b>	Broome, James C.; Ferracane, Jack L.; Hilton, Thomas J.
<b>Edition</b>	4th Edition
<b>Short Name</b>	Reference # 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Reference # 2	Fundamentals of fixed prosthodontics	Shillingburg et al	4th Edition	
Reference # 3	The Art & Science of Operative Dentistry.	Andre V. Ritter	7th Edition	
Reference # 4	Cohen's Pathways of the Dental Pulp	Louis Berman, Kenneth Hargreaves	12th Edition	

<b>Instructor</b>	
Name	Dr. Ghada Maghaireh
Office Location	234
Office Hours	Tue : 10:30 - 13:00 Wed : 09:00 - 12:30
Email	gmaghair@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Mon : 09:00 - 11:00 Room: MASTER HALL1

<b>Tentative List of Topics Covered</b>		
Weeks	Topic	References
Week 1	Introduction to the course	
Week 2	Vital pulp therapy	Updated articles, From Reference # 4
Week 3	Adhesion and advanced adhesive strategies	Updated articles, From Reference # 1
Week 4	Bulk-fill and self-adhesive composites	Updated articles, From Reference # 1
Week 5	Cast metal restorations	Updated articles, From Reference # 1
Week 6	Esthetic inlays and onlays	Updated articles, From Reference # 1
Week 7	Anterior ceramic crowns	Updated articles, From Reference # 1
Week 8	Midterm exam	
Week 9	Causes of endodontic failure and retreatment decision	Updated articles, From Reference # 4
Week 10	Endodontic obturation techniques and endodontic sealers	Updated articles, From Reference # 4
Week 11	Porcelain veneers	Updated articles, From Reference # 1
Week 12	Crown and fixed partial denture planning	Updated articles, From Reference # 2
	Crown and fixed partial denture preparation principles	Updated articles, From Reference # 2

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the inflammatory response of the pulp to restorative procedures.	5%	
Know the techniques and materials used in vital pulp therapy procedures.	5%	
Discuss adhesion in dentistry and advanced dental adhesive systems	5%	
Describe the chemistry, physical and mechanical properties and bond strength of bulk fill composites	5%	
Describe the clinical performance and the advancements in Bulk fill composites.	10%	
Describe the cast-gold restorations in terms of clinical indications, clinical procedures and clinical performance.	10%	
Describe the anterior ceramic restorations, esthetic inlays and onlays in terms of clinical indications, clinical procedures and clinical performance.	10%	
Know the causes of endodontic failures and making decision on retreatment cases.	10%	
List the endodontic obturation techniques and endodontic sealers.	10%	
Describe the porcelain veneers in terms of clinical indications, clinical procedures and clinical performance.	10%	
Describe the crown and fixed partial denture in terms of planning, designing and preparation principles	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

Evaluation	
Assessment Tool	Weight
Midterm exam	30%
Assignments and presentations	20%
Final	50%

Policy	
Exams	All exams are closed books and notes. The final exam is comprehensive (covers all the material). Incomplete and makeup exams will need approval from the dean. All exams will be in essay format.
Cheating	Prohibited, and in case of cheating the student will be subject to punishment according to the university regulations.
Attendance	Attendance is mandatory and will be recorded and uploaded to the online system regularly. University regulations 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.
Withdraw	According to university regulations.

Date Printed: 2021-11-17