

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
First Semester

Course Information	
Course Title	Restorative Dentistry
Course Number	ADS 335
Prerequisites	ADS 203
Course Website	-
Instructor	
Office Location	
Office Phone	
Office Hours	
E-mail	
Teaching Assistant	Instructor Suhair Obeidat, MSDH
Course Description	
The course is designed to bring the students to the basic knowledge in operative dentistry, crown and bridgework, and endodontics. The course emphasizes on the fundamentals of these disciplines of dentistry and the role of the dental assistant in improving the treatment outcome and assisting the dentist in the various clinical procedures	

Text Book	
Title	Fundamentals of Operative Dentistry
Author(s)	Schwartz
Publisher	Oxford University Press
Year	1997
Edition	1 st edition
Book Website	-
References	<ol style="list-style-type: none"> 1. Bernard Smith. Planning and making crowns and bridges. 3rd edition. 2. Walton and Torabinejad. Principles and practice of endodontics. 2nd edition. 3. Lecturers Notes and Handouts.

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	Week 6	20%
Second Exam	Week 11	20%
Final Exam (practical & theoretical)	Week 15, 16	40%
Lab continuous assessment	Weekly	20%

Course Objectives	Weights
1. Define Endodontics and the role of the endodontist.	5%
2. Identify instruments used in endodontic procedures and describe their functions.	10%

3. Identify material used in endodontic procedures and describe their functions.	5%
4. Describe endodontic procedures and the responsibilities of the dental assistant.	10%
5. Define the scope of fixed prosthodontics.	5%
6. Describe the various types of fixed prostheses and their functions.	5%
7. Describe the dental materials used in fixed prostheses.	5%
8. Explain techniques of retaining prosthesis when there is little or no crown on the tooth.	5%
9. Describe the role of dental assistant in all phases of fixed Prosthodontics treatment.	10%
10. Define matrix and wedge and list types and uses of matrices.	10%
11. Explain the purpose of dental dam.	5%
12. Explain the function and different types of gingival retraction.	5%
13. Describe the rationales of temporary (provisional) restoration and the role of dental assistant in fabricating custom temporaries.	5%
14. List and explain the types of dental restorative materials.	5%
15. Explain dental amalgam restorative material.	5%
16. Identify the armamentarium and steps of an amalgam procedure.	5%

Teaching & Learning Methods

Lectures, reading and homework assignments, group discussion, slide show, demonstrations, and pre-clinical practice on partners and dentoforms

Related Objective(s)	Learning Outcomes
1	Being able to differentiate pulpal diseases including reversible, irreversible pulpitis, PA abscess, etc
2, 3	Recognize name and function of every instrument and material used in RCT instrumentation & obturation
1	Discuss how EPT & Endo Ice can be used to test pulp vitality
2, 3, 4	Indicate role of DA in each step of RCT procedure
5, 6	List types of bridges and crowns
5	Mention purpose of Crown and Bridge fabrication
7	Describe types and uses of polysiloxane impression material in fixed prostheses
8	Identify stages and steps of post crown procedure
9	Mention DA role in each step and phase of crown/bridge, and post crown fabrication
10	Correctly assemble matrix band and tofflemire
2, 3, 4, 11	Correctly apply dental dam for RCT procedure
9, 12	List types & purposes of retraction cord application

9, 13	Demonstrate correct temporary crown/ bridge fabrication and cementation
13	List types and purposes of materials used for temporary Crown/ bridge fabrication
14, 15	Recognize dental restorative materials including amalgam, composite and GI
15, 16	Indicate sequential steps for amalgam class II procedure and role of DA in each step

Useful Resources

Course Content

Week	Topics	Chapter in Text (handouts)
1	Introduction into the course	Syllabus distribution and orientation
2	- Nomenclature and classification of dental caries - Dental caries diagnosis and charting -Cavity preparation	Ch. 1, handouts Slide show on dental caries
3	Hand and rotary instruments used in operative dentistry	Ch. 2, handouts
4	Clinical management of caries with amalgam - Cavity preparation - Class II amalgam procedure - Tofflemire and matrix band use	Ch. 3, handouts
5	Clinical management of caries with Composite & GI material - Cavity preparation - Class III Composite procedure - Class V GI procedure	Ch. 4, handouts
6	1st Exam	Study Well!
7	Endodontics I: - Introduction into endodontics - Pulpal and periapical diseases - Endodontic diagnosis - Role of the DA	Ch. 5, handouts Slide Show
8	Endodontics II: - Endodontic instruments - Endodontic materials	Ch.5, handouts
9	Endodontics III: - Isolation and infection control - RCT clinical procedure	Ch. 5, handouts Slide show
10	Fixed Prosthodontics I (Crown & Bridge): - Introduction into fixed prosthodontics - Types and classification - Indications	Ch. 7, handouts