Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
First Semester 2016-2017

Course Information	
Course Title	Conservative dentistry Practical
Course Number	ADS 323
Prerequisites	ADS 321 or corequisite
Course Website	-
Instructor	Suhair R. Obeidat BSc ADS, MSDH
Office Location	Faculty of Applied Medical Sciences – 2nd floor
Office Phone	02/ 7201000 ext. (26925)
Office Hours	Sundays 12:15 – 1:15 pm, Mondays 9:15-11:15 am
E-mail	saobeidat@just.edu.jo
Credit Hours	1
Course Time and Location	Mondays 1:15 – 4:15 pm in ADS Lab
Teaching Assistant	TBA

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	1st edition
Book Website	-
Required Textbook	Obeidat, S. R. (2007). A Guide to Clinical Dental Assisting (Part One)
References	1. Harty FJ. (2004). Endodontics in Clinical Practice. 5th edition. Wright Co. 2. Kidd and Edwina (2003). Pickard's Manual of Operative Dentistry. 8th edition. 3. Bernard, Smith (1998). Planning and making crowns and bridges. 3rd edition. 4. Schuster G.M., Wetterhus G.J., & Dryden Ph. (1999). Handbook of Clinical Dental Assisting. W.B. Saunders Company, Philadelphia, Pennsylvania 5. Phinney, D.J., & Halstead J.H. (2002). Delmar's Handbook of Essential Skills and Procedures for Chairside Dental Assisting. 6. Bernard Smith. Planning and making crowns and bridges. 3rd edition. 7. Walton and Torabinejad. Principles and practice of endodontics. 2nd edition. 8. Lecturers Notes and Handouts.

Assessment Policy*		
Assessment Type	**Expected Due Date**	**Weight**
Lab continuous assessment	Quizzes & practical exams: **See practical part planner**	30%
Midterm Exam	Week 11 (5.12.16)	25%
Lab preparation and participation	Weekly	5%
Final Practical Exam	Week 15	40%

**** Subjected to change according to modifications that may occur during the semester***

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%

Course Objectives (Practical Part)
Upon completion of the course, the student will be able to: 1. Discuss the sequence of most clinical operations performed in conservative dentistry 2. identify the basics in root canal therapy, instruments and infection control measures 3. define endodontics and the role of the endodontist 4. Identify instruments and materials used in endodontic procedures and describe their functions 5. describe endodontic procedures and the responsibilities of the the dental assistants 6. define the scope of fixed prosthodontics 7. describe the various types of fixed prostheses and their functions 8. describe the dental materials used in fixed prostheses 9. explain techniques of retaining prosthesis when there is little or no crown on the tooth

10. describe the role of the dental assistant in all phases of fixed prosthodontics treatment
11. define matrix and wedge and list types and uses of matrices
12. explain the purpose of rubber dam
13. explain the functions and different types of gingival retraction
14. describe the rationales of temporary (provisional) restoration and the role of dental assistant in fabricating custom temporaries
15. list and explain the types of dental restorative materials
16. explain dental amalgam restorative material
17. identify the armamentarium and steps of an amalgam procedure
18. explain the composition of composite resins
19. explain the properties and manipulation of various composite restorations
20. describe the use of GI restorative material
21. identify the parts of an instrument and describe how instruments are used
22. identify the categories and functions of dental burs
23. explain various dental handpieces and their uses

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

Planner for ADS 323

Wk (Mondays)	Topic	Activity/ assignment
1 26.9.16	Introduction into the cons practical part content	Orientation
2 3.10.16	**Orientation into the dental clinic** **Four-handed dentistry I:** • Activity zones • DA's stool characteristics • DA positioning • Seating and dismissing dental patient **Four-handed dentistry II:** Instrument Transfer Maintaining the operating field: • Evacuation system • Air-water syringe • Tissue retraction	Chapter I: Introduction P. 20-23 Demo and practice **Chapter I: Introduction P. 23-30** Demo and practice
3 10.10.16	Hand and rotary instruments used in operative dentistry Tray system used in cons clinic	Chapter II: dental hand & rotary instruments P. 32-42 Identification and discussion
4 17.10.16	- Class II Amalgam step-by-step procedure - Preparing cavity varnish - Using dental amalgamator/ triturator	**Chapter IV: Restorative materials & procedures Introduction, part 1 & 4 P. 56-60, 70-75**
5 24.10.16	**Quiz/ Practical Exam I: Four-handed Dentistry and Instrument Identification 10%** Tofflemire and matrix band preparation & placement: identification and Demo.	**Study Well!** **Chapter IV: Restorative materials & procedures Part 2 p. 62-68**
6 31.10.16	Tofflemire and matrix band preparation & placement: Student practice on models Mixing dental cements I	**Chapter IV: Restorative materials & procedures Part 2 p. 62-68** **Chapter III: Dental Cements Parts 1 & 2 p. 43-55** Demo and practice (Mixing & handling)
7 7.11.16	Mixing dental cements II (cont.) Clinical management of caries with composite and GI fillings (Class III and V cavities)	**Chapter III: Dental Cements Parts 1 & 2 p. 43-55** Demo and practice (Mixing & handling)
8 14.11.16	**Quiz/ Practical Exam II: Tofflemire identification and practice and composite 10%** Endodontics: pulpal & PA diseases, diagnosis tests, RCT instruments and materials	**Study Well!** **Chapter V: Endodontics Part 1, 2** Identification and discussion
9 21.11.16	Root Canal Treatment (step-by-step procedure): • Open/ instrumentation phase • Obturation phase The dental dam: • Materials and equipment • Placing and removing dental dam	**Chapter V: Endodontics Part 3** Discussion **Chapter V: Endodontics Part 4** Demo and practice
10 28.11.16	**Quiz/ Practical Exam III: Dental cements 10%** The dental dam:	**Chapter V: Endodontics**

	• Materials and equipment • Placing and removing dental dam	**Part 4** Student practice
11 5.12.16	**Midterm Exam 25%** **Crown and Bridge procedure I:** Impression materials used in Crown/ bridge procedure - Crown & bridge primary impression with condensational silicone - Crown & bridge final impression with additional silicone	**Study well!** **Chapter VI: Fixed Prosthodontics (Crowns & Bridges) Part3 P. 131-133**
12 12.12.16	**Crown and Bridge procedure II:** - gingival retraction cord placement for crown and bridge final impression - Temporary (provisional) restorations	**Study Well!** **Chapter VI: Fixed Prosthodontics (Crowns & Bridges) Part 2 & 4 P. 128-130, 135-139** Demo and practice
13 19.12.16	Post crown step-by-step procedure	**Chapter VII: Post and Core Crown Part 1 & 2 P. 140-154**
14 26.12.16	**Final Practical Exams Week**	**Good Luck**

Additional Notes	
Assignments	Students are required to do all the homework and pre-clinical lab assignments given by the instructor
Exams	Students are required to sit for the 2 semester examinations (Mid and final) and quizzes
Cheating	Cheating the commitment of the Acts of Cheating and deceit such as copying during examinations is dishonest and will not be tolerated; JUST policy will be applied.
Attendance	**Student attendance and responsibility:** For necessary *accused absence* e.g. family emergency, extreme illness, etc., please *contact instructor immediately*. **Tardiness more than 10 minutes will be counted as an absence**. In case of illness, student must submit a formal written excuse from the physician. Otherwise, the absence will be considered unexcused. **JUST POLICY will be applied regarding absence.**
Laboratory	Preclinical lab work Students are required to be prepared with their lab coats, nametags, and protective eyeglasses in each preclinical session. Long hair must be tied. Jewelries, long nails, high-heel and open shoes/ sandals, athletic shoes and jeans are not permitted. Please turn off all cell phones and pagers during preclinical sessions. **Please Read the Faculty Dress Code and Code of Ethics policies on the E-learning Website**
Projects	-
Feedback	Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail to the following address *saobeidat@just.edu.jo*