



Course Specifications

Institution:	College of Dentistry
Academic Department :	Restorative Dentistry Department
Programme :	Bachelor of Dental Surgery (BDS)
Course :	Clinical Operative Dentistry - I
Course Coordinator :	Mohammad H Al-Nabulsi
Programme Coordinator :	Abdulrahman Al-Atram
Course Specification Approved Date :	21/ 12 / 1435 H



A. Course Identification and General Information

1 - Course title :	Clinical Operative Dentistry - I	Course Code:	313 RDS
2. Credit hours :	(3 credit hours)		
3 - Program(s) in which the course is offered:	BDS		
4 – Course Language :	English		
5 - Name of faculty member responsible for the course:	Mohammad Al-Nabulsi		
6 - Level/year at which this course is offered :	Third year		
7 - Pre-requisites for this course (if any) :	<ul style="list-style-type: none"> • 111 RDS, 112 RDS, 213 RDS 		
8 - Co-requisites for this course (if any) :			
9 - Location if not on main campus :	(College of Dentistry in Zulfi)		
10 - Mode of Instruction (mark all that apply)			
A - Traditional classroom	<input checked="" type="checkbox"/>	What percentage?	80 %
B - Blended (traditional and online)	<input checked="" type="checkbox"/>	What percentage?	10 %
D - e-learning	<input checked="" type="checkbox"/>	What percentage?	10 %
E - Correspondence	<input type="checkbox"/>	What percentage? %
F - Other	<input type="checkbox"/>	What percentage? %
Comment: Using attractive audio-visual aids & practical demonstration.			

B. Objectives

What is the main purpose for this course?

1. Take a comprehensive patient history and relate it for diagnosis and treatment.
2. Make diagnosis and treat caries according to risk assessment.
3. Select and use appropriate restorative material for restoration of damaged teeth tissues.
4. To know how to place a rubber dam isolation for operative procedures.

Briefly describe any plans for developing and improving the course that are being implemented :

- Increased use of audiovisual aids like models, video and pictures.
- Live demonstration on models & patients.





C. Course Description

1. Topics to be covered:

List of Topics	No. of Weeks	Contact Hours
1. Introduction to Operative Dentistry.	1	1
2. Examination, Diagnosis and Treatment Planning I	1	1
3. Examination, Diagnosis and Treatment Planning II	1	1
4. Dental Caries: Diagnosis and Clinical Manifestation	1	1
5. Dental Caries: Caries Risk Assessment and Management	1	1
6. Control of Moisture	1	1
7. Concepts of Conservative Cavity Design and Management	1	1
8. Pulp Protection: Bases and Liners	1	1
9. Tooth-Colored Restoration: Part I – Adhesive Dentistry	1	1
10. Tooth-Colored Restoration: Part II – Anterior Composite Restoration	1	1
11. Tooth-Colored Restoration: Part III – Posterior Composite Restoration	1	1
12. Tooth-Colored Restoration: Part IV – Glass Ionomer Cements (GIC)	1	1
13. Tooth-Colored Restoration: Part V – Resin Modified GI and Polyacids Modified Composite	1	1

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	1 H	0	0	6 H	0	7 H
Credit	1 H	0	0	2 H	0	3 H

3. Additional private study/learning hours expected for students per week:

1 hour daily
for 5 days a
week





4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy:

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Students will be able to know the method of detailed case history taking and examination.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes.
1.2	Students will be able to apply a critical thinking to suggest the differential diagnosis of various diseases.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes.
1.3	Students will be able to perform treatment plan for dental caries.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes.
1.4	Students will be able to select and use appropriate restorative material for restoration of damaged teeth tissues.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes.
1.5	Students will be able to place rubber dam isolation for operative procedures.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes.



2.0 Cognitive Skills			
2.1	Assigned project work	Textbooks, websites, seminars & handouts.	Exams by written and oral quizzes, questioning, review test & performance notice.
2.2	Team presentation	Textbooks, websites, seminars & handouts.	Exams by written and oral quizzes, questioning, review test & performance notice.
2.3	Group participation	Textbooks, websites, seminars & handouts.	Exams by written and oral quizzes, questioning, review test & performance notice.
2.4	Discussions	Textbooks, websites, seminars & handouts.	Exams by written and oral quizzes, questioning, review test & performance notice.
3.0 Interpersonal Skills & Responsibility			
3.1	A cooperative and open atmosphere is expected during all class meetings.	Eye to eye contacts & group works.	Group discussions & assigned readings.
3.2	Students are encouraged to work together & to study together.	Eye to eye contacts & group works.	Group discussions & assigned readings.
4.0 Communication, Information Technology, Numerical			
4.1	Oral (verbal) questions.	By using attractive Audiovisual Aids. Justifications & brief descriptions.	Let them ventilate their feelings & exams.
4.2	Communication with students through Dropbox shared folder.	Textbooks, articles, pictures, diagrams, audiovisual aids.	-



5.0 Psychomotor			
5.1	To take patient history.	PowerPoint presentation, provision of check list for self-assessment of the task, individualized attention for correction of mistake & grading of the task.	Hands-on examination of tooth alteration procedures, selection of appropriate restorative material, OSCE & Viva voce.
5.2	To relate the history to diagnosis & proposed dental treatment.	PowerPoint presentation, provision of check list for self-assessment of the task, individualized attention for correction of mistake & grading of the task.	Hands-on examination of tooth alteration procedures, selection of appropriate restorative material, OSCE & Viva voce.
5.3	To treat caries according to risk assessment.	PowerPoint presentation, provision of check list for self-assessment of the task, individualized attention for correction of mistake & grading of the task.	Hands-on examination of tooth alteration procedures, selection of appropriate restorative material, OSCE & Viva voce.
5.4	To restore damaged tooth tissue with minimal intervention.	PowerPoint presentation, provision of check list for self-assessment of the task, individualized attention for correction of mistake & grading of the task.	Hands-on examination of tooth alteration procedures, selection of appropriate restorative material, OSCE & Viva voce.
5.5	Students will be able to place rubber dam isolation for operative procedures.	PowerPoint presentation, provision of check list for self-assessment of the task, individualized attention for correction of mistake & grading of the task.	Hands-on examination of the rubber dam isolation placement.





5. Schedule of Assessment Tasks for Students During the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	After completion of each prescribed project & seminar	During the semester	5 %
2	Midterm theory exam	29.12.1435	15 %
3	Midterm practical exam	29.12.1435	5 %
4	Final theory exam	End of the semester	30 %
5	Final practical exam	End of the semester	10 %
6	Clinical assessment	During the semester	30 %
7	Professional assessment	During the semester	5 %

D. Student Academic Counseling and Support

Arrangements for availability of teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week):

- Students will be informed in advance to assemble themselves in the classroom for group discussions
- Students will be informed about the written tasks in the form of essays.
- Students will be encouraged towards use of internet sources and library for the study and completion of the assignments.

E. Learning Resources

1. List Required Textbooks :

- Fundamentals of Operative Dentistry: A Contemporary Approach. James B Summit, J. William Robbins, Thomas J Hilton, Richard S Schwart, Jose Dos Santos Jr. Quintessence Pub Co, 3rd edition, 2006.

2. List Essential References Materials :

- Sturdevant's Art and Science of Operative Dentistry. Harald O. Heymann, Edward J. Swift Jr. and Andre V. Ritter. Elsevier, 6th edition, 2012.

3. List Recommended Textbooks and Reference Material :

- Pickard's Manual of Operative Dentistry. Avijit Banerjee, Timothy F. Watson. Oxford, 9th edition, 2011.

4. List Electronic Materials :

- Use of Pubmed engine search.
- Use of Dropbox 313 RDS shared folder.

5. Other learning material :

- Dental Clinics of North America. 2010;54(3):p 423-586, Current Concepts in Cariology.





F. Facilities Required

1. Accommodation <ul style="list-style-type: none"> • Class room for lectures for 23 students. • Equipped dental clinics.
2. Computing resources <ul style="list-style-type: none"> • Lap top for audiovisual support. • Data show projector. • Internet connection.
3. Other resources <ul style="list-style-type: none"> • Equipped dental units. • Hand instruments for clinical sessions. • Dental biomaterials for exercises.

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching: <ul style="list-style-type: none"> • Completion of course evaluation questionnaire.
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor : <ul style="list-style-type: none"> • Describe any other strategies for evaluation of teaching, e.g. observations and assistance from colleagues, independent assessment of standards achieved by students, independent advice on assignment tasks, etc...
3. Processes for Improvement of Teaching : <ul style="list-style-type: none"> • Describe processes for improvement of teaching, e.g. workshops on teaching methods, review of recommended teaching strategies.
4. Processes for Verifying Standards of Student Achievement <ul style="list-style-type: none"> • Describe methods used to compare standards of achievement with standards achieved elsewhere, e.g. check marking of a sample of examination papers or assignment tasks.
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement : <ul style="list-style-type: none"> • Describe process for reviewing feedback on the quality of the course and planning for improvement.

Course Specification Approved

Department Official Meeting No (.....) Date ... / / H

Course's Coordinator

Name : Dr. Mohammad H Al-Nabulsi
Signature :
Date : / ... / H

Department Head

Name : Dr. Mousa Abu Fadalah
Signature :
Date : / ... / H

