

Republic of Yemen

Ministry of Higher Education & Scientific Research

Emirates International University



Faculty of Dentistry

Department of Conservative Dentistry

Doctor of Dental Surgery (DDS)

Course Specification of

Operative Dentistry II (Pre-Clinical)

Course No. (-----)



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty

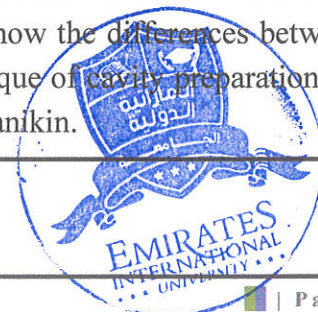


I. Course Identification and General Information:

1	Course Title:	Operative Dentistry II (Pre-Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	3 rd Level / 2nd Semester			
5	Pre –Requisite (if any):	Operative Dentistry I (Pre-Clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assoc. Prof. Dr. Ibrahim Z. Al-Shami			

II. Course Description:

This is the last pre-clinical operative dentistry course provided during the second semester of the third year that representing different restorative procedures in operative dentistry preparing the students for the clinical courses. students will be trained to prepare posterior compound & complex cavities and restore with Amalgam and advanced restorative materials like resin composite and modified glass ionomer cement on artificial teeth, know the differences between direct and indirect restorations, know the basic principles and technique of cavity preparation for cast gold and direct gold restorations and apply rubber dam on the manikin.



III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program	
A. Knowledge and Understanding:		I, A or E	
a1	Identify the applied aspects of glass ionomer cement and the various characteristics of the adhesive bonding systems and composite materials		A1
a2	Describe the protection systems pulp-dentin complex		A2
a3	Understand the concepts of cavity preparations of direct and indirect restorations and the various steps involved in it		A4
B. Intellectual Skills:			
b1	Identify different types of Carious and non-Carious Lesions that affect tooth structure		B1
b2	Differentiate between different dental materials used in operative dentistry		B5
C. Professional and Practical Skills:			
c1	Prepare different types of compound and complex cavities and restoring using different materials and technique		C2
c2	perform appropriate preventive and restorative treatment options		C4
D. Transferable Skills:			
d1	Communicate with dental assistants and colleagues easily		D3
d2	Advocate proper self-evaluation.		D1
d3	Manage time, set priorities and work to prescribed time limits.		D4



(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Identify the applied aspects of glass ionomer cement and the various characteristics of the adhesive bonding systems and composite materials	<ul style="list-style-type: none"> ▪ Lectures ▪ Discussions 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm Exam ▪ Final Exam
a2	Describe the protection systems pulp-dentin complex	<ul style="list-style-type: none"> ▪ Lectures ▪ Discussions 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm Exam ▪ Final Exam
a3	Understand the concepts of cavity preparations of direct and indirect restorations and the various steps involved in it	<ul style="list-style-type: none"> ▪ Lectures ▪ Discussions 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm Exam ▪ Final Exam

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Identify different types of Carious and non-Carious Lesions that affect tooth structure	<ul style="list-style-type: none"> ▪ Lectures ▪ Demonstrations ▪ Discussions 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm Exam ▪ Final Exam ▪ Practical Exams
b2	Differentiate between different dental materials used in operative dentistry	<ul style="list-style-type: none"> ▪ Lectures ▪ Demonstrations ▪ Discussions 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm Exam ▪ Final Exam ▪ Practical Exams ▪ Semester work

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:

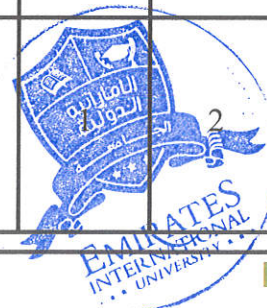
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Prepare different types of compound and complex cavities and restoring using different materials and	<ul style="list-style-type: none"> ▪ Practical Sessions ▪ Demonstrations ▪ Discussions 	<ul style="list-style-type: none"> ▪ Direct observation ▪ Practical Exams ▪ Semester work

	technique		
c2	perform appropriate preventive and restorative treatment options	<ul style="list-style-type: none"> ▪ Practical Sessions ▪ Demonstrations ▪ Discussions 	<ul style="list-style-type: none"> ▪ Direct observation ▪ Practical Exams ▪ Semester work
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Communicate with dental assistants and colleagues easily	<ul style="list-style-type: none"> ▪ Self-Learning ▪ Presentation ▪ Seminars 	<ul style="list-style-type: none"> ▪ Direct observation ▪ Practical Exams ▪ Semester work
d2	Advocate proper self-evaluation.	<ul style="list-style-type: none"> ▪ Self-Learning ▪ Presentation ▪ Seminars 	<ul style="list-style-type: none"> ▪ Direct observation ▪ Practical Exams ▪ Semester work
d3	Manage time, set priorities and work to prescribed time limits.	<ul style="list-style-type: none"> ▪ Self-Learning ▪ Presentation ▪ Seminars 	<ul style="list-style-type: none"> ▪ Direct observation ▪ Practical Exams ▪ Semester work

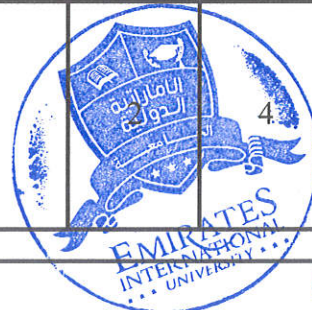
IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Direct Posterior Composite Restorations	<ul style="list-style-type: none"> - Preparation of operating site. - Types of Class I and Class II preparations - Indication and contraindications, advantages, and disadvantages. - Restorative Procedures: Class I, and Class II - Shade selection and Pulp protection - Finishing and polishing 	2	4	a1, b2
2	Preventive Resin Restorations	<ul style="list-style-type: none"> - Pit and Fissures Sealants, - Minimal Preparation for Posterior Composite - Fissures Sealant procedure 			a2, b2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		- Class VI preparation			
3	None Caries Lesions	<ul style="list-style-type: none"> - Definitions, different types of tooth surface loss - causes - signs and symptoms - etiology and clinical presentation of bruxism - diagnosis and prevention of tooth surface loss. 	1	2	a2, b1, b2
4	Glass ionomer restorative material	<ul style="list-style-type: none"> - Conventional, modified, Compomers and smart materials - Types - Differences between conventional GI, resin modified GI, and Compomers. - Setting reaction of each type. - Advantages of resin modified GI over conventional type. - Clinical Manipulation - Sandwich technique 	1	2	a1, b2
5	Complex Amalgam Restoration	<ul style="list-style-type: none"> - Introduction - Pin less-retained complex amalgam Preparations, - The additional means of retention: retentive grooves, amalgam pins, slots, steps, circumferential slots. - Restorative Technique - Cusps capping 	2	4	a2, b1
6	Midterm Exam	MCQs and essay questions	1	2	a1, a2, b1, b2
7	Pin retained Amalgam Restorations	<ul style="list-style-type: none"> - Advantages, disadvantages, - Indications, contraindications, - Types of pins and technique of placement 		4	a3



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CIOs)
		<ul style="list-style-type: none"> – Tooth preparation – clinical applications – Complications and failure 			
8	Pulp Protection therapy	<ul style="list-style-type: none"> - Definitions. - indications for Insulating materials - reaction of the dental pulp to cavity liners and varnishes - dentine adhesive systems as cavity liners. 	1	2	a1, a2, b1
9	Provisional Restoration	<ul style="list-style-type: none"> - Definition. - Objectives and Requirements - Provisional restoration materials. - Techniques 	1	2	a3, b2,
10	Principles of Tooth Preparation for Indirect Restorations	<ul style="list-style-type: none"> - Definitions. - Classification of castings - Materials - Indications, contraindications, - advantages and disadvantages. 	1	2	a3, b2, c1, d3
11	Tooth Preparation for Cast Gold Inlay and only Restorations	<ul style="list-style-type: none"> -Indications for cast gold inlay, onlay -Steps of preparation for Cast Gold Inlay and Onlay Restoration - Difference between amalgam and inlay preparation. 	2	4	a3, b2
12	Final Exam	– MCQs and essay questions	1	2	a1, a2. a3, b1, b2
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CIOs)
1	Demonstration and practice: Rubber Dam Application on Mandibular Teeth and Class II Amalgam Cavity	Week 1		b2, c1, c2, c3, d3

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	Preparation			
2	Practice: Class III Cavity Preparation for Composite Resin on Natural Tooth	Week 2	2	b2, c1, c2, c3, d3
3	practice : Class IV (Traumatic) Cavity Preparations and Restorations for Composite Resin on Natural Tooth	Week 3	2	b2, c1, c2, c3, d3
4	practice: Class V Facial Cavity Preparation and Composite Resin / GIC Restoration Closed and open Sandwich Technique	Week 4 and 5	4	b2, c1, c2, c3, d3
5	Demonstration and practice: Class I Cavity Preparation and Restoration for Composite Resin	Week 6	2	b2, c1, c2, c3, d3
6	Demonstration and practice: Class II (MOD) Posterior Composite Cavity Preparation & Restoration (Conventional)	Week 7	2	b2, c1, c2, c3, d3
7	Demonstration and practice: Class II Slot Posterior Composite Cavity Preparation & Restoration	Week 8	2	b2, c1, c2, c3, d3
8	Demonstration and practice: Compound & complex cavity preparation and restorations using direct restorations Class II (MOD) Amalgam Cavity Preparation with (MB) Cusp Removal and (DL) Cusp Reduction	Week 9 and 10	4	b2, c1, c2, c3, d3
9	Demonstration and practice: Slot Preparation and Pin Placement	Week 11	2	b2, c1, c2, c3, d3
10	Demonstration and practice: Class II (MOD) Preparation for indirect restorations Inlay and only	Week 12 and 13	4	b2, c1, c2, c3, d3
11	Practice: Preparation and restoration: Amalgam and Composite general	Week 14	2	b2, c1, c2, c3, d3
12	Practical Exam		2	b2, c1, c2, c3, d3
Number of Weeks /and Units Per Semester		15	30	



V. Teaching Strategies of the Course:

- Lectures
- Presentations
- Demonstrations
- Discussions
- Seminars
- Practical Sessions
- Self-Learning

VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Semester work
- Direct observation

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Semester work: - practical laboratory work and Requirements	Week 1 to week 14	10	b2, c1, c2, c3, d3
Total			10	



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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Week 1 to week 14	10	10%	b2, c1, c2, c3, d3
2	Quizzes	Week 6	5	5 %	a1, a2, b2
3	Midterm Exam	Week 8	20	20 %	a1, a2, b1, b2
4	Practical Exam	Week 15	15	15 %	b2, c1, c2, c3, d3
5	Final Exam	Week 16	50	50 %	a1, a2. a3, b1, b2
Total			100	100 %	

IX. Learning Resources:

1- Required Textbook(s):

- 1- Theodore Roberson, Harald O. Heymann, 2013: Sturdevant's Art and Science of Operative Dentistry, 6th Edition, Mosby, USA.
- 2- Hilton, Thomas J.; Ferracane, Jack L., and Broome, James, 2013: Fundamentals of Operative Dentistry: A Contemporary Approach, Fourth Edition, Quintessence, USA.

2- Essential References:

- 1- A. J. E. Qualtrough, Julian Satterthwaite, Leean Morrow, and Paul Brunton, 2009: Principles of Operative Dentistry, John Wiley & Sons, USA.
- 2- Nisha Garg, Amit Garg, 2015: Textbook of Operative Dentistry. 3rd Edition, JP Medical Pub, India.
- 3- Harpreet Singh, 2011: Essentials of Preclinical Conservative Dentistry, 2nd Edition, Walter Kluwer, Netherland.

3- Electronic Materials and Web Sites etc.:

Websites:

- 1- Journal of dentistry
<https://www.journals.elsevier.com › journal-of-dentistry>
- 2- Operative Dentistry Journal
<https://www.meridian.allenpress.com/operative-dentistry>
- 3- Dental Materials Journal



<https://www.researchgate.net>

4- Digital Restorative Dentistry

<https://www.springer.com/gp/book>

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
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7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.



Faculty of Dentistry
Department of Conservative Dentistry
Program of Doctor of Dental Surgery (DDS)

Course Plan (Syllabus) of
Operative Dentistry II (Pre-Clinical)
Course No. (-----)

I. Information about Faculty Member Responsible for the Course:

Name of Faculty Member:	Ibrahim Z. Al-Shami	Office Hours					
Location & Telephone No.:	Sanaa 777980568	4 Hours Weekly					
E-mail:	ibrahimzaed@yahoo.com	SAT 1	SUN	MON 1	TUE 1	WED	THU 1



II. Course Identification and General Information:

1	Course Title:	Operative Dentistry II (Pre-Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	3rd Level / 2nd Semester			
5	Pre –Requisite (if any):	Operative Dentistry I (Pre-Clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assoc. Prof. Dr. Ibrahim Z. Al-Shami			

III. Course Description:

This is the last pre-clinical operative dentistry course provided during the second semester of the third year that representing different restorative procedures in operative dentistry preparing the students for the clinical courses. students will be trained to prepare posterior compound & complex cavities and restore with Amalgam and advanced restorative materials like resin composite and modified glass ionomer cement on artificial teeth, know the differences between direct and indirect restorations, know the basic principles and technique of cavity preparation for cast gold and direct gold restorations and apply rubber dam on the manikin.

IV. Course Intended Learning Outcomes (CILOs) :

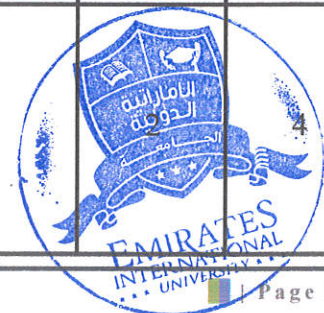
Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	Identify the applied aspects of glass ionomer cement and the various characteristics of the adhesive bonding systems and composite materials
a2	Describe the protection systems pulp-dentin complex
a3	Understand the concepts of cavity preparations of direct and indirect restorations and the various steps involved in it
	B. Intellectual Skills:
b1	Identify different types of Carious and non-Carious Lesions that affect tooth structure
b2	Differentiate between different dental materials used in operative dentistry
	C. Professional and Practical Skills:
c1	Prepare different types of compound and complex cavities and restoring using different materials and technique
c2	perform appropriate preventive and restorative treatment options
	D. Transferable Skills:
d1	Communicate with dental assistants and colleagues easily
d2	Advocate proper self-evaluation.
d3	Manage time, set priorities and work to prescribed time limits.

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Direct Posterior Composite	<ul style="list-style-type: none"> - Preparation of operating site. - Types of Class I and Class II preparations - Indication and contraindications, - advantages, and disadvantages. 		



V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Restorations	<ul style="list-style-type: none"> - Restorative Procedures: Class I, and Class II - Shade selection and Pulp protection - Finishing and polishing 		
2	Preventive Resin Restorations	<ul style="list-style-type: none"> - Pit and Fissures Sealants, - Minimal Preparation for Posterior Composite - Fissures Sealant procedure - Class VI preparation 	1	2
3	None Caries Lesions	<ul style="list-style-type: none"> - Definitions, different types of tooth surface loss - causes - signs and symptoms - etiology and clinical presentation of bruxism - diagnosis and prevention of tooth surface loss. 	1	2
4	Glass ionomer restorative material	<ul style="list-style-type: none"> - Conventional, modified, Compomers and smart materials - Types - Differences between conventional GI, resin modified GI, and Compomers. - Setting reaction of each type. - Advantages of resin modified GI over conventional type. - Clinical Manipulation - Sandwich technique 	1	2
5	Complex Amalgam Restoration	<ul style="list-style-type: none"> - Introduction - Pin less-retained complex amalgam Preparations, - The additional means of retention: retentive grooves, amalgam pins; 	2	4

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		slots, steps, circumferential slots. - Restorative Technique - Cusps capping		
6	Midterm Exam	MCQs and essay questions	1	2
7	Pin retained Amalgam Restorations	- Advantages, disadvantages, - Indications, contraindications, - Types of pins and technique of placement - Tooth preparation - clinical applications - Complications and failure	2	4
8	Pulp Protection therapy	- Definitions. - indications for Insulating materials - reaction of the dental pulp to cavity liners and varnishes - dentine adhesive systems as cavity liners.	1	2
9	Provisional Restoration	- Definition. - Objectives and Requirements - Provisional restoration materials. - Techniques	1	2
10	Principles of Tooth Preparation for Indirect Restorations	- Definitions. - Classification of castings - Materials - Indications, contraindications, - advantages and disadvantages.	1	2
11	Tooth Preparation for Cast Gold Inlay and only	-Indications for cast gold inlay, onlay -Steps of preparation for Cast Gold Inlay and Onlay Restoration	2	4

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Restorations	- Difference between amalgam and inlay preparation.		
12	Final Exam	- MCQs and essay questions	1	2
Number of Weeks /and Units Per Semester			16	32

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Demonstration and practice: Rubber Dam Application on Mandibular Teeth and Class II Amalgam Cavity Preparation	Week 1	2
2	Practice: Class III Cavity Preparation for Composite Resin on Natural Tooth	Week 2	2
3	practice : Class IV (Traumatic) Cavity Preparations and Restorations for Composite Resin on Natural Tooth	Week 3	2
4	practice: Class V Facial Cavity Preparation and Composite Resin / GIC Restoration Closed and open Sandwich Technique	Week 4 and 5	4
5	Demonstration and practice: Class I Cavity Preparation and Restoration for Composite Resin	Week 6	2
6	Demonstration and practice: Class II (MOD) Posterior Composite Cavity Preparation & Restoration (Conventional)	Week 7	2
7	Demonstration and practice: Class II Slot Posterior Composite Cavity Preparation & Restoration	Week 8	2
8	Demonstration and practice: Compound & complex cavity preparation and restorations using direct restorations Class II (MOD) Amalgam Cavity Preparation with (MB) Cusp Removal	Week 9 and 10	4

B. Case Studies and Practical Aspect:			
No.	Tasks/ Experiments	Week Due	Contact Hours
	and (DL) Cusp Reduction		
9	Demonstration and practice: Slot Preparation and Pin Placement	Week 11	2
10	Demonstration and practice: Class II (MOD) Preparation for indirect restorations Inlay and only	Week 12 and 13	4
11	Practice: Preparation and restoration: Amalgam and Composite general	Week 14	2
12	Practical Exam	Week 15	2
Number of Weeks /and Units Per Semester		15	30

VI. Teaching Strategies of the Course:

- Lectures
- Presentations
- Demonstrations
- Discussions
- Seminars
- Practical Sessions
- Self-Learning

VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Semester work
- Direct observation



VIII. Assignments:

No.	Assignments	Week Due	Mark
1	Semester work: - practical laboratory work and Requirements	Week 1 to week 14	10
Total			10

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Week 1 to week 14	10	10%
2	Quizzes	Week 6	5	5 %
3	Midterm Exam	Week 8	20	20 %
4	Practical Exam	Week 15	15	15 %
5	Final Exam	Week 16	50	50 %
Total			100	100 %

X. Learning Resources:

1- Required Textbook(s):

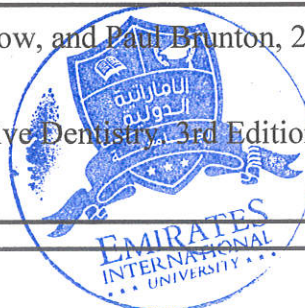
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3- Harpreet Singh, 2011: Essentials of Preclinical Conservative Dentistry, 2nd Edition,
Walter Kluwer, Netherland.

3- Electronic Materials and Web Sites etc.:

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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