

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 IV (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 IV (Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	3	--
4	Study Level/ Semester at which this Course is offered:	4 <sup>th</sup> Level / 2 <sup>nd</sup> Semester			
5	Pre –Requisite (if any):	Operative dentistry III (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:

In this course the students will be trained to restore the teeth with advanced restorative materials and technique within the concept of adhesive cavity design, prepare and restore compound & complex cavities with different restorative material and technique, diagnose and manage carious and non-carious lesions, manage discolored teeth, know the basic principles of minimal intervention dentistry concepts as and when required, manage hypersensitive teeth, prepare cavities in fractured anterior teeth and restore the form, function & esthetics with composite resin material on patients and know the recent trends in the field of operative dentistry regarding restorative materials and technology.

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program		
<b>A. Knowledge and Understanding:</b>		<b>I, A or E</b>		
a1	Discuss the concept of adhesive dentistry, adhesion mechanisms, each indication, advantages and withdraws.			A6
a2	Describe the management techniques for discolored teeth.			A4
a3	Utilize minimal intervention dentistry concepts as and when required in patients			A5
a4	Recognize new advancements in the field of operative dentistry and be able to evaluate their potential for clinical use			A6
<b>B. Intellectual Skills:</b>				
b1	Solve the complaint of postoperative hypersensitivity and pain after a recent operative procedure, with proper diagnosis of the etiology.			B2
b2	Determining and identifying the aesthetic requirements of patients and the possibility of resolving their concerns			B3
b3	Evaluating and treating patients with caries or other dental non-carious pathologies and being able to use all the material required for restoring the shape, function and aesthetics of the tooth in patients of all ages			B5
<b>C. Professional and Practical Skills:</b>				
c1	Manipulate efficiently the esthetic restorative materials within the concept of adhesive cavity design.			C7

c2	Formulate treatment plan to manage badly broken down vital and none vital teeth and Patient complaint professionally			C1
c3	Apply conservative concept through restorative procedures.			C4
<b>D. Transferable Skills:</b>				
d1	Communicate with dental assistants and colleagues easily			D3
d2	Able to provide the treatment details to patient /build up good dentist- patient relationship and provide the treatment best way possible to prescribed time limits.			D7, D4
d3	Communicate & share practice & knowledge with the related specialties and get acquainted with evidence based dentistry.			D2

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	Discuss the concept of adhesive dentistry, adhesion mechanisms, each indication, advantages and withdraws.	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
a2	Describe the management techniques for discolored teeth.	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
a3	Utilize minimal intervention dentistry concepts as and when required in patients	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
a4	Recognize new advancements in the field of operative dentistry and be able to evaluate their potential for	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>

	clinical use		
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
b1	Solve the complaint of postoperative hypersensitivity and pain after a recent operative procedure, with proper diagnosis of the etiology.	<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
b2	Determining and identifying the aesthetic requirements of patients and the possibility of resolving their concerns	<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
b3	Evaluating and treating patients with caries or other dental non-carious pathologies and being able to use all the material required for restoring the shape, function and aesthetics of the tooth in patients of all ages	<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Midterm Exam</li> <li>▪ Final Exam</li> </ul>
<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
c1	Manipulate efficiently the esthetic restorative materials within the concept of adhesive cavity design.	<ul style="list-style-type: none"> <li>▪ Practical Sessions</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>
c2	Formulate treatment plan to manage badly broken down vital and none vital teeth and Patient complaint professionally	<ul style="list-style-type: none"> <li>▪ Practical Sessions</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>
c3	Apply conservative concept through restorative procedures.	<ul style="list-style-type: none"> <li>▪ Practical Sessions</li> <li>▪ Demonstrations</li> <li>▪ Discussions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching</b>			

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"> <li>▪ Self-Learning</li> <li>▪ Presentation</li> <li>▪ Seminars</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>
d2	Able to provide the treatment details to patient /build up good dentist- patient relationship and provide the treatment best way possible to prescribed time limits.	<ul style="list-style-type: none"> <li>▪ Self-Learning</li> <li>▪ Presentation</li> <li>▪ Seminars</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>
d3	Communicate & share practice & knowledge with the related specialties and get acquainted with evidence based dentistry.	<ul style="list-style-type: none"> <li>▪ Self-Learning</li> <li>▪ Presentation</li> <li>▪ Seminars</li> </ul>	<ul style="list-style-type: none"> <li>▪ Direct observation</li> <li>▪ Practical Exams</li> <li>▪ Semester work</li> </ul>

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Adhesion in Restorative Dentistry	<ul style="list-style-type: none"> <li>- Development, Classification of bonding system,</li> <li>- Generations,</li> <li>- Adhesion strategies and technique.</li> </ul>	1	1	a1, a2, a4, b1
2	Applied composite resins	- Clinical aspects of Composite Resin material	1	1	a4, b2
3	Restoration of Endodontically treated teeth	<ul style="list-style-type: none"> <li>- Management of destructed none vital teeth</li> <li>- Tooth preparation</li> <li>- retention methods</li> </ul>	1	1	a4, b3
4	Bonded amalgam	<ul style="list-style-type: none"> <li>- Practical Aspects of Amalgam Retention</li> <li>- Pins vs Bonded Restorations</li> </ul>	1	1	a1, a4

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	restoration	- Amalgam Bonding Procedure			
5	Concepts of Minimal invasive dentistry	- Caries management *Non invasive *Micro invasive *Minimally invasive - ART, PPR	2	2	a3, a4, b2
6	Dentin Hyper-sensitivity and Post Restorative Pain	- Etiology - diagnosis - management of hypersensitive tooth	1	1	a1, a4, b1
7	Midterm Exam	MCQs and essay questions	1	1	a1-a4, b1, b2
8	Management of non-carious cervical lesion	- Definition of non-carious cervical lesions NCCL; cervical erosion, abrasion and abfraction. - Etiological causes of non-carious cervical lesions. - Clinical features of tooth surface loss. - Treatment strategies: type of restorative materials - Restoration of Cervical lesions: (non-esthetic & esthetic restorative methods).	2	2	a1, a3, b3
9	Management of discolored teeth	- Discoloration & Bleaching - Different method of bleaching discolored teeth (bleaching – laminate-Micro abrasion). - Esthetic consideration	2	2	a2, a4, b1, b2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
10	Anterior esthetic restorations	- Direct composite veneer. - different clinical application. - Porcelain Veneers: Indications and contra indications, Clinical technique, Delivery and cementation, Finishing and polishing.	2	2	a1, a3, b2
11	Recent Advances in operative dentistry	- New restorative materials and equipment's - CAD CAM Restorations	1	1	a4, b2, b3,
12	Final Exam	- MCQs and essay questions	1	1	a1, a2, a3, a4, b1, b2, b3
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>16</b>	

**B. Case Studies and Practical Aspect:**

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	Compound & complex cavity preparation and restoration using direct restorations	1 <sup>st</sup> to 6 <sup>th</sup>	18	c1, c2, c3, d1, d2
2	Minimal intervention dentistry (preventive resin restorations) + Restoring Compound & complex cavity	7 <sup>th</sup> and 8 <sup>th</sup>	6	c1, c3, d1, d2
3	Preparation and restoration of class IV (silicone keys)	9 <sup>th</sup> and 10 <sup>th</sup>	6	c1, c2, c3, d2, d3
4	Treating defective restorations and Restoring Complex cavity: - pin - retained amalgam restoration - Tooth build up with post system	11 <sup>th</sup> and 12 <sup>th</sup>	6	c1, c2, d2, d3
5	Full resin-based composite coverage of tooth (direct composite veneers)	13 <sup>th</sup>	3	c1, c2, c3, d2, d3
6	Bleaching of discolored teeth+ Restoring Compound &	14 <sup>th</sup>		c1, c2, c3,



No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	complex cavity			d2, d3
7	Practical Exam	15 <sup>th</sup>	3	c1, c2, c3, d1, d2, d3
<b>Number of Weeks /and Units Per Semester</b>		<b>15</b>	<b>45</b>	

### 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 practical work: - Clinical Cases and Requirements	1 <sup>st</sup> - 14 <sup>th</sup>	10	c1, c2, c3, d1, d2, d3
<b>Total</b>			<b>10</b>	

### 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	1 <sup>st</sup> - 14 <sup>th</sup>	10	10 %	c1, c2, c3, d1, d2, d3
2	Quizzes	6 <sup>th</sup>	5	5 %	a1, a2, a3, a4, b1, b2
3	Midterm Exam	8 <sup>th</sup>	20	20 %	a1, a2, a3, a4, b1, b2, b3
4	Practical Exam	15 <sup>th</sup>	15	15 %	c1, c2, c3, d1, d2, d3
5	Final Exam	16 <sup>th</sup>	50	50 %	a1, a2, a3, a4, b1, b2, b3
<b>Total</b>			<b>100</b>	<b>100%</b>	

### IX. Learning Resources:

#### 1- Required Textbook(s):

- 1- Harold Heymann, Edward Swift, Andre Ritter, 2012: Sturdevant's Art and Science of Operative Dentistry, 6th Edition, Mosby, USA.
- 2- Avijit Banerjee, Timothy F. Watson, 2011: Pickard's Manual of Operative Dentistry, 9th Edition, Oxford, England.

#### 2- Essential References:

- 1- Peter Jacobsen, 2008: Restorative Dentistry: An Integrated Approach, 2nd Edition, Wiley-Blackwell, USA.
- 2- Nisha Garg, Amit Garg, 2015: Textbook of Operative Dentistry. 3<sup>rd</sup> Edition, JP Medical Ltd, India.

#### 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	<b>Class Attendance:</b> 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	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> 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	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> 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 **IV (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 1
				THU 1		

## II. Course Identification and General Information:

1	Course Title:	Operative Dentistry IV (Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	3	--
4	Study Level/ Semester at which this Course is offered:	4th Level / 2nd Semester			
5	Pre –Requisite (if any):	Operative dentistry III (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:

In this course the students will be trained to restore the teeth with advanced restorative materials and technique within the concept of adhesive cavity design, prepare and restore compound & complex cavities with different restorative material and technique, diagnose and manage carious and non-carious lesions, manage discolored teeth, know the basic principles of minimal intervention dentistry concepts as and when required, manage hypersensitive teeth, prepare cavities in fractured anterior teeth and restore the form, function & esthetics with composite resin material on patients and know the recent trends in the field of operative dentistry regarding restorative materials and technology.

#### IV. Course Intended Learning Outcomes (CILOs) :

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

<b>A. Knowledge and Understanding:</b>	
a1	Discuss the concept of adhesive dentistry, adhesion mechanisms, each indication, advantages and withdraws.
a2	Describe the management techniques for discolored teeth.
a3	Utilize minimal intervention dentistry concepts as and when required in patients
a4	Recognize new advancements in the field of operative dentistry and be able to evaluate their potential for clinical use
<b>B. Intellectual Skills:</b>	
b1	Solve the complaint of postoperative hypersensitivity and pain after a recent operative procedure, with proper diagnosis of the etiology.
b2	Determining and identifying the aesthetic requirements of patients and the possibility of resolving their concerns
b3	Evaluating and treating patients with caries or other dental non-carious pathologies and being able to use all the material required for restoring the shape, function and aesthetics of the tooth in patients of all ages
<b>C. Professional and Practical Skills:</b>	
c1	Manipulate efficiently the esthetic restorative materials within the concept of adhesive cavity design.
c2	Formulate treatment plan to manage badly broken down vital and none vital teeth and Patient complaint professionally
c3	Apply conservative concept through restorative procedures.
<b>D. Transferable Skills:</b>	
d1	Communicate with dental assistants and colleagues easily
d2	Able to provide the treatment details to patient /build up good dentist- patient relationship and provide the treatment best way possible to prescribed time limits.
d3	Communicate & share practice & knowledge with the related specialties and get acquainted with evidence based dentistry.

## V. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Adhesion in Restorative Dentistry	- Development, Classification of bonding system, - Generations, - Adhesion strategies and technique.	1	1
2	Applied composite resins	- Clinical aspects of Composite Resin material	1	1
3	Restoration of Endodontically treated teeth	- Management of destructed none vital teeth - Tooth preparation - retention methods	1	1
4	Bonded amalgam restoration	- Practical Aspects of Amalgam Retention - Pins vs Bonded Restorations - Amalgam Bonding Procedure	1	1
5	Concepts of Minimal invasive dentistry	- Caries management *Non invasive *Micro invasive *Minimally invasive - ART, PPR	2	2
6	Dentin Hyper-sensitivity and Post Restorative Pain	- Etiology - diagnosis - management of hypersensitive tooth	1	1
7	<b>Midterm Exam</b>	<b>MCQs and essay questions</b>	1	1
8	Management of non-carious cervical lesion	- Definition of non-carious cervical lesions NCCL; cervical erosion, abrasion and abfraction. - Etiological causes of non-carious	2	2

## V. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		cervical lesions. - Clinical features of tooth surface loss. - Treatment strategies: type of restorative materials - Restoration of Cervical lesions: (non-esthetic & esthetic restorative methods).		
9	Management of discolored teeth	- Discoloration & Bleaching - Different method of bleaching discolored teeth (bleaching – laminate- Micro abrasion). - Esthetic consideration	2	2
10	Anterior esthetic restorations	- Direct composite veneer. - different clinical application. - Porcelain Veneers: Indications and contra indications, Clinical technique, Delivery and cementation, Finishing and polishing.	2	2
11	Recent Advances in operative dentistry	- New restorative materials and equipment's - CAD CAM Restorations	1	1
12	Final Exam	– MCQs and essay questions	1	1
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>16</b>

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	Compound & complex cavity preparation and restoration using direct restorations	1 <sup>st</sup> to 6 <sup>th</sup>	16



<b>B. Case Studies and Practical Aspect:</b>			
<b>No.</b>	<b>Tasks/ Experiments</b>	<b>Week Due</b>	<b>Contact Hours</b>
2	Minimal intervention dentistry (preventive resin restorations) + Restoring Compound & complex cavity	7 <sup>th</sup> and 8 <sup>th</sup>	6
3	Preparation and restoration of class IV (silicone keys)	9 <sup>th</sup> and 10 <sup>th</sup>	6
4	Treating defective restorations and Restoring Complex cavity: - pin - retained amalgam restoration - Tooth build up with post system	11 <sup>th</sup> and 12 <sup>th</sup>	6
5	Full resin-based composite coverage of tooth (direct composite veneers)	13 <sup>th</sup>	3
6	Bleaching of discolored teeth+ Restoring Compound & complex cavity	14 <sup>th</sup>	3
7	<b>Practical Exam</b>	15 <sup>th</sup>	3
<b>Number of Weeks /and Units Per Semester</b>		<b>15</b>	<b>45</b>

### **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 practical work: - Clinical Cases and Requirements	1st- 14th	10
<b>Total</b>			<b>10</b>

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1 <sup>st</sup> - 14 <sup>th</sup>	10	10 %
2	Quizzes	6 <sup>th</sup>	5	5 %
3	Midterm Exam	8 <sup>th</sup>	20	20 %
4	Practical Exam	15 <sup>th</sup>	15	15 %
5	Final Exam	16 <sup>th</sup>	50	50 %
<b>Total</b>			<b>100</b>	<b>100%</b>

### X. Learning Resources:

#### 1- Required Textbook(s):

- 1- Harold Heymann, Edward Swift, Andre Ritter, 2012: Sturdevant's Art and Science of Operative Dentistry, 6th Edition, Mosby, USA.
- 2- Avijit Banerjee, Timothy F. Watson, 2011: Pickard's Manual of Operative Dentistry, 9th Edition, Oxford, England.

#### 2- Essential References:

- 1- Peter Jacobsen, 2008: Restorative Dentistry: An Integrated Approach, 2nd Edition, Wiley-Blackwell, USA.
- 2- Nisha Garg, Amit Garg, 2015: Textbook of Operative Dentistry. 3rd Edition, JP Medical Ltd, India.

3- Electronic Materials and Web Sites etc.:

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

1	<b>Class Attendance:</b> 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	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
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