

**Department: Restorative and Esthetic Dentistry**

**Title of the Program:** *Bachelor of Dental Surgery BDS*

## Course Specification of Operative Dentistry (3)

I. Course Identification and General Information:					
1	Course Title:	Operative Dentistry (3)			
2	Course Code & Number:	DBCD3102			
3	Credit hours:	C.H			
		Lecture	Seminar/Tutorial	Practical	Training
		1			2
4	Study level/ semester at which this course is offered:	3 <sup>ed</sup> Level / 2 <sup>nd</sup> Semester			
5	Pre –requisite (if any):	Operative Dentistry (2)			
6	Co –requisite (if any):	None			
7	Program (s) in which the course is offered:	Bachelor of Dental Surgery (B.D.S).			
8	Teaching Language:	English			
9	Study System:	Semester based System			
10	Prepared by:	Prof. Dr. Ibrahim Z. Al-Shami			
11	Approval date:	2023/2024			
12	Approved by:	Prof. Dr Abdulwahab Al-kholani & Dr. Muneer Al-azzani			

## II. Course Description:

In this course the students will be trained to control the infection in the dental operatory, diagnose the disease and plan the treatment for the patient, minimize the adverse effects while preparing cavities with high speed equipment's, minimize the side effects of restorative materials, control the pain and moisture while treating the patient, prepare simple and compound cavities, manage deep caries lesions and restore with different restorative material, counteract or repair the failed restorations, know the differences between direct and indirect posterior esthetic restorations.

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III. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs
<b>Knowledge and Understanding</b>		
By the end of this course, the student will be able to:		
a.1	Describe the concepts of moisture control, sterilization and disinfection in Operative dentistry	A1
a.2	obtain a detailed case history of the patient, diagnose the disease and plan the treatment accordingly	A4
a.3	List various material and techniques used to restore different cavity preparations	A6
<b>Intellectual Skills:</b>		
By the end of this course, the student will be able to		
b.1	Identify pulpal and gingival responses to cavity preparation and restorative materials.	B1
b.2	Predict and asses the clinical manifestations of failure or success of any present restoration.	B2
b.3	Select and use the proper restorative material for each case	B5
<b>Professional and Practical Skills</b>		
By the end of this course, the student will be able to		
c.1	Perform different operative procedure and restore all types of cavities properly.	C5
c.2	Manage Patient complaint professionally.	C4
c.3	Detect caries lesions, assess caries risk and diagnose dental caries in a clinical field.	C2
c.4	Perform deep conservative cavities and preserve pulp vitality	C3
<b>Transferable (General) Skills:</b>		
By the end of this course, the student will be able to		
d.1	Communicate and work effectively and respectful with patients, clinical staff and colleagues	D3
d.2	Manage time, set priorities and work to prescribed time limits.	D4
d.3	Demonstrate the different clinical managing skills	D5

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Describe the concepts of moisture control, sterilization and disinfection in Operative dentistry	Lecture Demonstrations Supervision Instruction	Written Exams, Oral discussion Quizzes
obtain a detailed case history of the patient, diagnose the disease and plan the treatment accordingly		
List various material and techniques used to restore different cavity preparations		

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Identify pulpal and gingival responses to cavity preparation and restorative materials.	Lectures Demonstrations Case presentation	Written Exams, Oral discussion Quizzes
Predict and asses the clinical manifestations of failure or success of any present restoration.		
Select and use the proper restorative material for each case		

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Perform different operative procedure and restore all types of cavities properly.	Practical Sessions Demonstrations Supervision Instruction	Direct observation Oral discussion  Practical Exams Semester work
Manage Patient complaint professionally.		
Detect caries lesions, assess caries risk and diagnose dental caries in a clinical field.		
Perform deep conservative cavities and preserve pulp vitality		

**(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching**

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### Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Communicate and work effectively and respectfully with patients, clinical staff and colleagues	Practical Sessions  Supervision  Instruction	Semester work  (Practical Requirements)  Observation  Continuous Assessment
Manage time, set priorities and work to prescribed time limits.		
Demonstrate the different clinical managing skills		

### IV. Course Content:

#### First: Theoretical Aspects

Order	Units/Topics List	Learning Outcomes	Subtopics List	Number of Weeks	contact hours
1	Infection control in dental clinic	a1, b2, d3	<ul style="list-style-type: none"> <li>Environmental hazards, cross contamination in dental units and apparatus.</li> <li>Different modes of sterilizations and disinfection</li> </ul>	1 week	1
2	Isolation and Control of the Operating Field	a3, b1, b2, c1, d3	<ul style="list-style-type: none"> <li>Goals of isolation</li> <li>Moisture Management</li> <li>Rubber dam systems and its application.</li> <li>Alternative and additional methods and factors</li> <li>Other isolation techniques</li> </ul>	1 week	1
3	patient assessment, examination, diagnosis and treatment planning	a2, b2, c2, c3, c4, d1, d3	<ul style="list-style-type: none"> <li>Extra and intraoral examination.</li> <li>Caries detection and diagnosis</li> <li>Caries prevention and control</li> </ul>	1 week	1

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4	Dental pain in operative procedures	a2, b1, c2, c4, d3	<ul style="list-style-type: none"> <li>Types, causes, mechanism</li> <li>Control and management</li> <li>Medication used</li> <li>Emergency treatment in dental office</li> </ul>	1 week	1
5	Biological Considerations of Restorative Materials and during tooth Preparation	a3, b1, b3, c1, d3	<ul style="list-style-type: none"> <li>Defence mechanisms of dentin against injury</li> <li>Reaction of the pulp to operative procedures and materials, and the line of prevention</li> <li>Irritation, types of irritants</li> <li>Mercury exposure and hazard.</li> </ul>	1 week	1
6	Management of Deep - carious lesions	a3, b1, c1, c3, c4, d3	<ul style="list-style-type: none"> <li>Pulpal exposure: traumatic and Pathological exposure</li> <li>Principles and considerations</li> <li>Treatment and management of deep-seated caries</li> <li>Zones of Caries lesion.</li> <li>Direct and indirect pulp capping</li> <li>Capping agents and healing process in the pulp following trauma</li> </ul>	2 weeks	2
7	<b>Midterm Theoretical Examination</b>	a1, a2, a3, b1	<ul style="list-style-type: none"> <li><b>MCQs and essay questions</b></li> </ul>	1 week	1
8	Failure of dental Restorations (composite and Amalgam)	a3, b2, b3, c1, c2	<ul style="list-style-type: none"> <li>Etiology (Causes) of failure</li> <li>Factors affecting the success of dental restoration</li> <li>Clinical manifestations of different restorations failure</li> <li>Management and Repair of failed dental restorations</li> </ul>	2 weeks	2

9	Selection of appropriate restorative materials	a3, b2, b3, c4, d3	<ul style="list-style-type: none"> <li>Types of restorative materials</li> <li>The ideal restoration</li> <li>factors affecting material selection</li> </ul>	1 week	1
10	Pin retained Amalgam Restorations	a3, c1, d2, d3	<ul style="list-style-type: none"> <li>Advantages &amp; disadvantages,</li> <li>Indications &amp; contraindications,</li> <li>Types of pins and technique of placement</li> <li>Tooth preparation</li> <li>Clinical applications</li> <li>Complications and failure</li> </ul>	1 week	1
11	Bonded amalgam restoration	a1, a4, b1, c2, d2	<ul style="list-style-type: none"> <li>Practical Aspects of Amalgam Retention</li> <li>Pins vs Bonded Restorations</li> <li>Amalgam Bonding Procedure</li> </ul>	1 week	1
12	Indirect Posterior Aesthetic Restorations	a2, a3, b1, b3, c1, d3	<ul style="list-style-type: none"> <li>Types, clinical indications &amp; contraindications,</li> <li>Advantages &amp; disadvantages</li> <li>Composite inlays &amp; onlays.</li> <li>Advantages over direct resin composite restorations.</li> <li>Posterior porcelain restoration.</li> <li>Preparation for Indirect tooth coloured restoration: Inlays &amp; onlays.</li> </ul>	2 weeks	2
13	<b>Final Theoretical Examination</b>	a1, a2, a3, b1, b2, b3,	<ul style="list-style-type: none"> <li><b>MCQs and essay questions</b></li> </ul>	1 week	1
<b>Number of Weeks /and Units Per Semester</b>				<b>16</b>	<b>16</b>



Second: Practical/Tutorial/Clinical Aspects Write up practical/tutorial/clinical topics				
No.	Practical/Tutorial/Clinical topics	No. of Weeks	Contact Hours	CILOs
1	- Orientation to the dental clinic, dental units, its accessories and hand pieces. - Patient preparation, Dental chair and operating positions, - infection control and sterilization.	3	6	a1, a3, b2, c1, c3, d1, d3
2	- Patient assessment: - Examination, diagnosis and treatment planning. - Clinic and patient records system - Control of oral fluids & rubber dam application (Demonstration and Practicing).	2	4	a2, a3, b2, c1, c3, d1, d3
3	- Practicing simple cavity prep. & restoration with direct restorations (Amalgam and Composite) for different classes.	2	4	b3, c1, c2, c3, c4, d1, d2, d3
4	- Practicing compound cavity prep. & restoration with direct restorations (Amalgam and Composite) for different classes.	3	6	b3, c1, c2, c3, c4, d1, d2, d3
5	- Management of Deep - carious lesions (Direct and indirect pulp capping)	3	6	b3, c1, c2, c3, c4, d1, d2, d3
6	<b>Final Practical Examination</b>	1	2	b2, b3, c1, c2, c3, c4, d1, d2, d3
<b>Total number of weeks and hours</b>		14	28	

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## V. Teaching strategies of the course:

- Lectures
- Demonstrations
- Case presentation
- Practical Sessions (evaluation on the clinical work)
- Self-learning
- Complete supervision and instruction on each clinical case

## VI. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	<b>Semester practical work:</b> <b>- Clinical Cases and Requirements</b>	b2, c1, c2, c3, c4 d1-d3	Week 2 to week 13	10
<b>Total</b>				<b>10</b>

## VII. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments	2 - 13	10	10 %	b2, c1-c4, d1-d3
2	Quiz	2 - 14	10	10 %	a1, a2, a3, b1, d3
3	Midterm Theoretical Exam	8	20	20 %	a1, a2, a3, b1, d3
4	Final Practical Exam	14	20	20 %	b2, c1-c4, d1-d3
5	Final Theoretical Exam	16	40	40 %	a1, a2, a3, b1, b2, b3
<b>Total</b>			<b>100</b>	<b>100%</b>	

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## VIII. Learning Resources:

### 1- Required Textbook(s).

- 1- Harold Heymann, Edward Swift, Andre Ritter, 2019: Sturdevant's Art and Science of Operative Dentistry, 7th Edition, Mosby, USA.
- 2- Avijit Banerjee, Timothy F. Watson, 2011: Pickard's Manual of Operative Dentistry, 9th Edition, Oxford, England.

### 2- Essential References.

- 1- Nisha Garg, Amit Garg, 2015: Textbook of Operative Dentistry. 3rd Edition, JP Medical Ltd, India.
- 2- Peter Jacobsen, 2008: Restorative Dentistry: An Integrated Approach, 2nd Edition, Wiley-Blackwell, USA.
- 3- Ramya Raghu, Raghu Srinivasan, 2017: CLINICAL OPERATIVE DENTISTRY PRINCIPLES AND PRACTICE, 2nd Edition, Emmess, India..

### 3- Electronic Materials and Web Sites etc.

- 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>

## IX. Course Policies:

1	<b>(Class Attendance)</b> Attendance of students is taken at beginning of lecture time. - The allowed absence percentage is 20% without excuse and 30% with acceptable excuse, - When student has been absent for more than 30% of course lectures without acceptable excuse, the student will be prohibited from entering subject the final exam.
2	<b>(Tardy)</b> If the student came late to class for 15 minutes, he/she is registered absent but he/she allowed to enter the hall to listen lecture presentation.

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3	<p><b>(Exam Attendance/Punctuality):</b></p> <p>According to examination roles or policies: - If the student is absent in the year works exams, the decision is referred to the teacher whether to allow or to reject according to the offered excuse. - If the student is absent in the final exam with an acceptable excuse, the student would be attended the re-sit exam as 1st trial. - If the student is absent in the final exam without an acceptable excuse, the student would be attended re-sit exam as 2nd trial.</p>
4	<p><b>(Assignments &amp; Projects):</b></p> <p>According to examination roles or policies: - The student should be attended the final exam at certain time and according to the accredited exam table. - If the student came late after 15 minutes from the exam beginning, the student would be to attend the exam with oral monition of never repeat. - In case of the repeat, the student prevented from entrance and considered absent.</p>
5	<p><b>(Cheating):</b></p> <p>According to examination roles or policies: - If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course. - If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheated course is the last at the exam table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council. - If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure. - The faculty council is able to segregate the student for one academic year in 2nd cheating trial and final segregation from the university after accreditation of university council in 3rd cheating trial.</p>
6	<p><b>(Plagiarism):</b></p> <p>According to examination roles or policies: Plagiarism means a student plagiarizes the personality of another student. Plagiarism for exam purpose: 1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the re-sit exam. 2- If the plagiarized student is from outside the university, the student is referred to the university police. -Plagiarism for other purposes: 1- Both students are warned as segregation. 2- If the plagiarized student is from outside the university, the student is referred to the university police.</p>
7	<p><b>(Other policies):</b></p> <p>The student should be followed the instructions for the exam entrance. - The student should be followed all systems &amp; laws of the university.</p>

## Course Plan of Operative Dentistry (3)

### I. Information of Faculty Members responsible for the course:

Name of Faculty Member	Prof. Dr. Ibrahim Z. Al-Shami	Office Hours					
	Prof. Dr. Abdulwahab I. Al-kholani						
Location & Telephone No.	Sanaa 777980568	SAT	SUN	MON	TUE	WED	THU
	Sanaa 777775025						
E-mail	ibrahimzaed@yahoo.com						

### II. Course Identification and General Information:

1-	Course Title:	Operative Dentistry (3)				
2-	Course Number & Code:	DBCD3102				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		1		2		
4-	Study level/year at which this course is offered:	3 <sup>ed</sup> Level / 6 <sup>th</sup> Semester				
5-	Pre –requisite (if any):	Operative Dentistry (2)				
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	Bachelor of Dental Surgery (B.D.S).				
8-	Language of teaching the course:	English				
9-	System of Study:	Semester based System				
10-	Location of teaching the course:	Faculty of Dentistry				

### III. Course Description:

In this course the students will be trained to control the infection in the dental operatory, diagnose the disease and plan the treatment for the patient, minimize the adverse effects while preparing cavities with high speed equipment's, minimize the side effects of restorative materials, control the pain and moisture while treating the patient, prepare simple and compound cavities, manage deep caries lesions and restore with different restorative material, counteract or repair the failed restorations, know the differences between direct and indirect posterior esthetic restorations.

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## IV. Intended learning outcomes (ILOs) of the course

After completing this course, students will be able to:

a.1	Describe the concepts of moisture control, sterilization and disinfection in Operative dentistry
a.2	obtain a detailed case history of the patient, diagnose the disease and plan the treatment accordingly
a.3	List various material and techniques used to restore different cavity preparations
b.1	Identify pulpal and gingival responses to cavity preparation and restorative materials.
b.2	Predict and assess the clinical manifestations of failure or success of any present restoration.
b.3	Select and use the proper restorative material for each case
c.1	Perform different operative procedure and restore all types of cavities properly.
c.2	Manage Patient complaint professionally.
c.3	Detect caries lesions, assess caries risk and diagnose dental caries in a clinical field.
c.4	Perform deep conservative cavities and preserve pulp vitality
d.1	Communicate and work effectively and respectfully with patients, clinical staff and colleagues
d.2	Manage time, set priorities and work to prescribed time limits.
d.3	Demonstrate the different clinical managing skills

## V. Course Content:

### A. Theoretical Aspect:

Order	Units/Topics List	Sub-Topics List	Number of Weeks	contact hours
1	Infection control in dental clinic	<ul style="list-style-type: none"> <li>Environmental hazards, cross contamination in dental units and apparatus.</li> <li>Different modes of sterilizations and disinfection</li> </ul>	1 <sup>st</sup>	1
2	Isolation and Control of the Operating Field	<ul style="list-style-type: none"> <li>Goals of isolation</li> <li>Moisture Management</li> <li>Rubber dam systems and its application.</li> <li>Alternative and additional methods and factors</li> <li>Other isolation techniques</li> </ul>	2 <sup>nd</sup>	1
3	patient assessment, examination,	<ul style="list-style-type: none"> <li>Extra and intraoral examination.</li> </ul>	3 <sup>rd</sup>	1

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	diagnosis and treatment planning	<ul style="list-style-type: none"> <li>– Caries detection and diagnosis</li> <li>– Caries prevention and control</li> </ul>		
4	Dental pain in operative procedures	<ul style="list-style-type: none"> <li>– Types, causes, mechanism</li> <li>– Control and management</li> <li>– Medication used</li> <li>– Emergency treatment in dental office</li> </ul>	4 <sup>th</sup>	1
5	Biological Considerations of Restorative Materials and during tooth Preparation	<ul style="list-style-type: none"> <li>– Defence mechanisms of dentin against injury</li> <li>– Reaction of the pulp to operative procedures and materials, and the line of prevention</li> <li>– Irritation, types of irritants</li> <li>– Mercury exposure and hazard.</li> </ul>	5 <sup>th</sup>	1
6	Management of Deep - carious lesions	<ul style="list-style-type: none"> <li>– Pulpal exposure: traumatic and Pathological exposure</li> <li>– Principles and considerations</li> <li>– Treatment and management of deep-seated caries</li> <li>– Zones of Caries lesion.</li> <li>– Direct and indirect pulp capping</li> <li>– Capping agents and healing process in the pulp following trauma</li> </ul>	6 <sup>th</sup> & 7 <sup>th</sup>	2
7	<b>Midterm Theoretical Examination</b>	<ul style="list-style-type: none"> <li>• MCQs and essay questions</li> </ul>	8 <sup>th</sup>	1
8	Failure of dental Restorations (Composite and Amalgam)	<ul style="list-style-type: none"> <li>– Etiology (Causes) of failure</li> <li>– Factors affecting the success of dental restoration</li> <li>– Clinical manifestations of different restorations failure</li> <li>– Management and Repair of failed dental restorations</li> </ul>	9 <sup>th</sup> & 10 <sup>th</sup>	2
9	Selection of	<ul style="list-style-type: none"> <li>– Types of restorative materials</li> </ul>	11 <sup>th</sup>	1

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	appropriate restorative materials	<ul style="list-style-type: none"> <li>– The ideal restoration</li> <li>– factors affecting material selection</li> </ul>		
10	Pin retained Amalgam Restorations	<ul style="list-style-type: none"> <li>– Advantages &amp; disadvantages,</li> <li>– Indications &amp; contraindications,</li> <li>– Types of pins and technique of placement</li> <li>– Tooth preparation</li> <li>– Clinical applications</li> <li>– Complications and failure</li> </ul>	12 <sup>th</sup>	1
11	Bonded amalgam restoration	<ul style="list-style-type: none"> <li>– Practical Aspects of Amalgam Retention</li> <li>– Pins vs Bonded Restorations</li> <li>– Amalgam Bonding Procedure</li> </ul>	13 <sup>th</sup>	1
12	Indirect Posterior Aesthetic Restorations	<ul style="list-style-type: none"> <li>– Types, clinical indications &amp; contraindications,</li> <li>– Advantages &amp; disadvantages</li> <li>– Composite inlays &amp; onlays.</li> <li>– Advantages over direct resin composite restorations.</li> <li>– Posterior porcelain restoration.</li> <li>– Preparation for Indirect tooth coloured restoration: Inlays &amp; onlays.</li> </ul>	14 <sup>th</sup> & 15 <sup>th</sup>	2
13	<b>Final Theoretical Examination</b>	<ul style="list-style-type: none"> <li>• MCQs and essay questions</li> </ul>	16 <sup>th</sup>	1
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>16</b>

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## B. Practical/ /Clinical Aspects

No.	Practical/ /Clinical topics	No. of Weeks	Contact Hours
1	- Orientation to the dental clinic, dental units, its accessories and hand pieces. - Patient preparation, Dental chair and operating positions, - infection control and sterilization.	1 <sup>st</sup> – 3 <sup>rd</sup>	6
2	- Patient assessment: - Examination, diagnosis and treatment planning. - Clinic and patient records system - Control of oral fluids & rubber dam application (Demonstration and Practicing).	4 <sup>th</sup> & 5 <sup>th</sup>	4
3	- Practicing simple cavity prep. & restoration with direct restorations (Amalgam and Composite) for different classes.	6 <sup>th</sup> & 7 <sup>th</sup>	4
4	- Practicing compound cavity prep. & restoration with direct restorations (Amalgam and Composite) for different classes.	8 <sup>th</sup> – 10 <sup>th</sup>	6
5	- Management of Deep - carious lesions (Direct and indirect pulp capping).	11 <sup>th</sup> – 13 <sup>th</sup>	6
6	<b>Final Practical Examination</b>	14 <sup>th</sup>	2
<b>Total number of weeks and hours</b>		14	28

## VI. Teaching strategies of the course:

- Lectures
- Demonstrations
- Case presentation
- Practical Sessions (evaluation on the clinical work)
- Clinical demonstrations

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## VII. Assignments:

No	Assignments	Week Due	Mark	Proportion of Final Assessment
1	<b>Semester practical work:</b> <b>- Clinical Cases and Requirements</b>	Week 2 to week 13	10	10%
	<b>Total</b>		<b>10</b>	<b>10%</b>

## III. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment
1	Assignments	2 - 13	10	10 %
2	Quiz	2 - 14	10	10 %
3	Midterm Theoretical Exam	8	20	20 %
4	Final Practical Exam	14	20	20 %
5	Final Theoretical Exam	16	40	40 %
	<b>Total</b>		<b>100</b>	<b>100%</b>

## IX. Learning Resources:

### 1- Required Textbook(s).

- 1- Harold Heymann, Edward Swift, Andre Ritter, 2019: Sturdevant's Art and Science of Operative Dentistry, 7th Edition, Mosby, USA.
- 2- Avijit Banerjee, Timothy F. Watson, 2011: Pickard's Manual of Operative Dentistry, 9th Edition, Oxford, England.

### 2- Essential References.

- 1- Nisha Garg, Amit Garg, 2015: Textbook of Operative Dentistry. 3rd Edition, JP Medical Ltd,

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India.

- 2- Peter Jacobsen, 2008: Restorative Dentistry: An Integrated Approach, 2nd Edition, Wiley-Blackwell, USA.
- 3- Ramya Raghu, Raghu Srinivasan, 2017: CLINICAL OPERATIVE DENTISTRY PRINCIPLES AND PRACTICE, 2nd Edition, Emmess, India..

### 3- Electronic Materials and Web Sites etc.

- 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:

1	<b>Class Attendance:</b> <ul style="list-style-type: none"> <li>- Attendance of students is taken at beginning of lecture time.</li> <li>- After 15 minutes of lecture time the student is considered absent.</li> <li>- When student has been absent for more than 25% of course contents, the student should be prohibited for entrance the final exam.</li> </ul>
2	<b>Tardy:</b> <ul style="list-style-type: none"> <li>- If the student came late to class for 15 minutes, he/she is registered absent but he/she allowed to enter the hall to listen lecture presentation.</li> </ul>
3	<b>Exam Attendance/Punctuality:</b> <ul style="list-style-type: none"> <li>-According to examination roles or policies:</li> <li>- If the student is absent in the year works exams, the decision is referred to the teacher whether to allow or to reject according to the offered excuse.</li> <li>- If the student is absent in the final exam with an acceptable excuse, the student would be attended the re-sit exam as 1<sup>st</sup> trial.</li> <li>- If the student is absent in the final exam without an acceptable excuse, the student would be attended re-sit exam as 2<sup>nd</sup> trial.</li> </ul>
4	<b>Assignments &amp; Projects:</b> <ul style="list-style-type: none"> <li>-- According to examination roles or policies:</li> <li>- The student should be attended the final exam at certain time and according to the accredited exam table.</li> </ul>

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	<ul style="list-style-type: none"> <li>- If the student came late after 15 minutes from the exam beginning, the student would be to attend the exam with oral monition of never repeat.</li> <li>- In case of the repeat, the student prevented from entrance and considered absent.</li> </ul>
5	<p><b>Cheating:</b> According to examination roles or policies:</p> <ul style="list-style-type: none"> <li>- If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course.</li> <li>- If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them.</li> <li>- If the cheated course is the last at the exam table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them.</li> <li>- If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council.</li> <li>- If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure.</li> <li>- The faculty council is able to segregate the student for one academic year in 2<sup>nd</sup> cheating trial and final segregation from the university after accreditation of university council in 3<sup>rd</sup> cheating trial.</li> </ul>
6	<p><b>Plagiarism:</b> -According to examination roles or policies: Plagiarism means a student plagiarizes the personality of another student. Plagiarism for exam purpose: 1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the re-sit exam. 2- If the plagiarized student is from outside the university, the student is referred to the university police. -Plagiarism for other purposes: 1- Both students are warned as segregation. 2- If the plagiarized student is from outside the university, the student is referred to the university police.</p>
7	<p><b>Other policies:</b></p> <ul style="list-style-type: none"> <li>-The student should be followed the instructions for the exam entrance.</li> <li>- The student should be followed all systems &amp; laws of the university.</li> </ul>

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