



# **Department: Prosthodontics and Restorative**

Title of the Program: Bachelor of Dental Surgery BDS

Course Specification of Comprehensive Clinical Practice CCP 2

	I. Course Identification and General Information:						
1	Course Title:	Comprel	Comprehensive Clinical Practice CCP 2				
2	Course Code & Number:	DBCP5102					
		C.H Total				Total	
3	Credit hours:	Lecture	Seminar/Tutorial	Practical	Training	1 otai	
		2	-	-	12	8	
4	Study level/ semester at which this course is offered:	5 <sup>th</sup> Level /2 <sup>nd</sup> Semester					
5	Pre –requisite (if any):	Compreh	ensive Clinical Practi	ice CCP 1			
6	Co –requisite (if any):	None					
7	Program (s) in which the course is offered:	Bachelor	of Dental Surgery (B	BDS)			
8	Teaching Language:	English					
9	Study System:	Semester	based System				
10	Location of teaching the course:	Faculty of Dentistry					
11	Prepared by:	Associate Prof. Mohsen Al-Hamzi					
12	Approval date:	2023/2024					
13	Approved by:	Prof. Dr A	Abdulwahab Al-khola	ani & Dr. M	uneer Al-az	zani	

# **II.** Course Description:

This course of the fifth year represents to the advance science and art of Operative and Endodontics (OP & Endo), focusing on the clinical practice of advance (OP & Endo) clinical procedures of different types of fillings, composite laminate, inlay and onlays restorations in dental clinic and Endodontics of complex Cases and new generations in materials and techniques. It covers diagnosis and management of patients in need of the (OP & Endo) and treatment planning for different cases. Its theoretical part covers advance topics of (OP & Endo) to enhance students' confidence in a comprehensive care environment.

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Sana'a University Faculty of Dentistry Quality Assurance Unit



فَحْصَرُدَتِ مَ الْحِمَدِ مِنْ مَ الْعَلَمِي وَالْبِحَثُ الْعَلَمِي جَامِعة صنعاء جامعة صنعاء كلية طب الاسنان وحدة ضمان الجودة

]	III. Course Intended learning outcomes (CILOs) of the course	Referenced PILOs
Know	ledge and Understanding	
By the	end of this course, the student will be able to:	
a.1	Identify the properties, limitations, and proper using of the rotary instruments and different modern modalities as it is necessary for a safe endodontic practice, and operative dentistry	A3
a.2	Recognize the latest evolutions in different clinical procedures of the operative and endodontic treatment.	A4
	ectual Skills: end of this course, the student will be able to	
b.1	Demonstrate the applications and indications of CBCT imaging in operative and endodontics, and recognize how it assists in helping to determine a definitive diagnosis, anatomy, complications, and treatment prognosis.	B1
b.2	Apply critical thinking and problem solving, including their use in the comprehensive care of patients in operative and endodontics practice.	B2
b.3	Differentiate between the basic and modern technologies, instruments and materials, and understand the comprehensive approach of its use.	В5
	end of this course, the student will be able to	
c.1	Illustrate cases that need to CBCT imaging and discuss it if obtained in (OP & Endo) filed.	C1
c.2	Determine when to treat and when to refer a case to a specialist.	C4
c.3	Provide a quality comprehensive care for the patients in (OP & Endo) practice.	C5
	sferable (General) Skills: end of this course, the student will be able to	
d.1	Recognize the importance of lifelong learning by conducting seminars in some important and recent topics related to the operative and endodontic field.	D1
d.2	Save patient's data including diagnosis and treatment steps in a patient file.	D3
d.3	work coherently and successfully as a part of a team in discussions and problem solving that related to (OP & Endo).	D4

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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	<b>Assessment Strategies</b>
Identify the properties, limitations, and proper using of the rotary instruments and different modern modalities as it is necessary for a safe endodontic practice, and operative dentistry	<ul> <li>Interactive lectures, Lectures, in which concepts, approaches and case studies are presented and explored</li> <li>presentations and discussions in class</li> </ul>	<ul><li> Written examinations</li><li> Presentations</li><li> Quizzes</li></ul>
Recognize the latest evolutions in different clinical procedures of the operative and endodontic treatment.	Lectures Discussions - Exercises Illustration	<ul><li>MCQs, essays, short answers, etc)</li><li>Oral examination Homework</li></ul>

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
Demonstrate the applications and indications of CBCT imaging in operative and endodontics, and recognize how it assists in helping to determine a definitive diagnosis, anatomy, complications, and treatment prognosis.	<ul><li>Classroom discussions</li><li>Brainstorming</li><li>Seminars.</li></ul>	<ul><li>Written examinations</li><li>Presentations</li><li>Quizzes</li><li>Oral assessment and feed back</li></ul>	
Apply critical thinking and problem solving, including their use in the comprehensive care of patients in operative and endodontics practice.	<ul><li>Interactive Lecture</li><li>Exercises</li><li>Problem-Solving.</li></ul>	- Written Examinations,	
Differentiate between the basic and modern technologies, instruments and materials, and understand the comprehensive approach of its use.	<ul><li>Discussions</li><li>Small-Group</li><li>Learning</li></ul>	- Technical Reports	

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Illustrate cases that need to CBCT imaging and discuss it if obtained in (OP & Endo) filed.	<ul><li>Classroom discussions</li><li>Brainstorming</li><li>Seminars.</li></ul>	<ul><li>Written examinations</li><li>Presentations</li><li>Quizzes</li><li>Oral assessment and feed back</li></ul>
Determine when to treat and when to refer a case to a	- Practical Sessions	- Written Examinations

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Provide a quality comprehensive care for the patients in (OP & Endo) practice.	<ul> <li>Exercises</li> <li>Discussions</li> <li>Individual/Group</li> <li>Project</li> <li>Classroom discussions</li> <li>Brainstorming</li> <li>Seminars.</li> </ul>	<ul> <li>Individual/Group Project</li> <li>Technical/Practical</li> <li>Reports /Presentations</li> <li>Written examinations</li> <li>Presentations</li> <li>Quizzes</li> <li>Oral assessment and feed back</li> </ul>	
(D) Alignment Course Intended Learning Strategies and Assess		able Skills to Teaching	
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
Recognize the importance of lifelong learning by conducting seminars in some important and recent topics related to the operative and endodontic field.	- Classroom discussions		
	Charre and care strong		
Save patient's data including diagnosis and treatment steps in a patient file.	<ul><li>Group and pair work</li><li>Problem solving</li><li>Presentations by</li><li>students</li></ul>	<ul><li>Oral assessment and presentations</li><li>Report writing /project</li></ul>	

# **IV.** Course Content:

## **First: Theoretical Aspects**

Order	Units/Topics List	Learning Outcomes	Subtopics List	Number of Weeks	Contact Hours
1	Concept and principles of dental esthetics	a1, a2, b2, d3	<ul> <li>Introduction</li> <li>Design</li> <li>Guidelines in rotary preparation Available systems</li> <li>Instrumentation strategies</li> </ul>	1	2
2	Rotary endodontics and Endodontic regeneration	a1, a2, b2, d3	Clinical applications for images	1	2
3	Practical Clinical Photography	a1, a2, b1, b2, d3	<ul><li>Introduction</li><li>Advantages and disadvantages</li><li>Applications and indications</li></ul>	1	2

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			- How to use CBCT		
4	CBCT in endodontic	a1-a3, b1, b2, d3	Seminar	1	2
5	Restorative treatment of Diastema.	a1, a2, b1, b2, d1, d3	Seminar	1	2
6	Advanced diagnostic aids in endodontics Minimally invasive access cavity design	a2, b1, b2, d1, d3	Seminar	1	2
7	Magnification in endodontics and Apex locator	a2, b1, b2, d1, d3	<ul> <li>Introduction</li> <li>Design</li> <li>Guidelines in rotary preparation Available systems</li> <li>Instrumentation strategies</li> </ul>	1	2
8	Mid-term Exam	a1, a2, b1, b2		1	2
9	Digital Impression Devices and CAD/CAM Systems.	a1, a2, b1- b3	Seminar	1	2
10	Root canal preparation and Root canal obturation	a2, b1, b2, d1-d3	Seminar	1	2
11	Digital Smile Design	a2, b1, b2, d1, d3	Seminar	1	2
12	Endodontic mishaps	a2, b1, b2, d1, d3	Seminar	1	2
13	Bleaching	a2, b1, b2, d2, d3	Seminar	1	2
14	Maintenance of esthetic restorations.	a2, b1, b2, d1, d2	Seminar	1	2
15	Review	a1, a2, b1, b2, d1, d3	Review	1	2
16	Final Exam	a1, a2, b1- b3		1	2
	Number of V	<b>Veeks /and Units</b>	Per Semester	16	32

Al-Hamzi Abdulwanab I. Al- Dr. Muneer Al-Azzani Alshamany Ass. Prof. Huda Al-Emad Abbas kholani	Prepared by Prof. Dr. Mohsen Al-Hamzi	Head of Department Prof. Dr. Abdulwahab I. Al-	Vice Dean for Quality Assurance Affairs Dr. Muneer Al-Azzani	Dean of the Faculty Dr Hasan Alshamahy	Academic Development Canter & Quality Assurance Ass. Prof. Huda Al-Emad	Rector of Sana'a Universit Dr. Al-Qassim Mohammed Abbas
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Second: Practical/Tutorial/Clinical Aspects Write up practical/tutorial/clinical topics					
No.	No. Practical/Tutorial/Clinical topics No. of Weeks Contact Hours CILO				
1	Comprehensive care including (restorations from each class, endodontic treatment for single and multi-canals teeth and esthetic and complex cases in operative clinical practice.	13	156	c1, c2, c3, d1, d2, d3	
2	Final Clinical Exam	1	3	c1, c2, c3	
Tota	l number of weeks and hours	14	159		

# V. Teaching strategies of the course:

- Interactive lectures, Lectures, in which concepts, approaches and case studies are presented and explored
- Presentations by students and discussions in class
- Classroom discussions
- Brainstorming
- Group projects
- Clinic tutorials and practical sessions
- Group and pair work
- Problem solving
- learning in groups and team works

V]	I. Assignments:			
No	Assignments	Aligned CILOs	Week Due	Mark
1	Assignment 1: study requirements	a1, a2, b1, b2, c1, c2, c3, d.1, d2, d.3	weekly	30
2	Assignment 2: Seminars	a1-a3, b1- b3, d1-d3	5-14	10
		Total		40

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# VII. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments	Weekly	30	30%	c1- c3, d1- d.3
2	Seminars	5-14	10	10%	a1, a2, b1- b3, d1- d3
3	Mid-Term Theoretical Exam	8	10	10%	a1, a2, b1- b3
4	Final Clinical Exam	14	20	20%	c1- c3
5	Final Theoretical Exam	16	30	30%	a1, a2, b1- b3
	Total		100	100%	

# **VIII. Learning Resources:**

### 1- Required Textbook(s) (maximum two).

- 1- S. Cohen, and M. Hargreaves, 2016, COHEN'S PATHWAYS OF THE PULP, 11th edition, Elsevier Inc.
- 2- Mahmoud Torabinejad, 2021, Endodontics Principles and Practice, 6th edition, Elsevier Inc.
- 3- Ronald E., 2018, Goldstein's Esthetic in Dentistry.

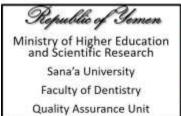
#### 2- Essential References.

- 1- Rudolf Beer, 2006, Pocket Atlas of Endodontics, 4th edition, Elsevier Inc.
- 2- Art and Science.

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

#### Websites:

- http://www.Journal of prosthetic dentistry
- http://www.International journal of prosthetic dentistry
- http://www.Journal of advanced prosthodontic





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	IX. Course Policies:
1	(Class Attendance)  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	(Tardy)  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.
	(Exam Attendance/Punctuality):  According to examination roles or policies: - If the student is absent in the year works exams, the
3	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.
	(Assignments & Projects):
4	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.
	(Cheating):
5	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.
6	(Plagiarism):
İ	According to examination roles or policies: Plagiarism means a student plagiarizes the personality of

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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.

#### (Other policies):

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The student should be followed the instructions for the exam entrance. - The student should be followed all systems & laws of the university.

Prepared by
Prof. Dr. Mohsen
Al-Hamzi





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## Course Plan of Comprehensive Clinical Practice CCP 2

I. Information of Faculty Members responsible for the course:							
Name of Faculty Member		Office Hours					
<b>Location &amp; Telephone No.</b>		SAT	SUN	MON	TUE	WED	THU
E-mail							

II.	I. Course Identification and General Information:						
1-	Course Title:	Compre	hensive Cli	nical Pract	tice CCP 2	2	
2-	Course Number & Code:	DBCP5102					
			C.l	H		Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	Total	
		2	-	-	6	5	
4-	Study level/ semester at which this course is offered:	5 <sup>th</sup> Level / 2 <sup>nd</sup> Semester					
5-	Pre –requisite (if any):	Comprehensive Clinical Practice CCP 1					
6-	Co –requisite (if any):	None					
7-	Program (s) in which the course is offered:	Bachelor of Dental Surgery (BDS)					
8-	Teaching Language:	English					
9-	Study System:	Semester based System					
10-	Location of teaching the course:	Faculty of Dentistry					

# **III. Course Description:**

This course of the fifth year represents to the advance science and art of Operative and Endodontics (OP & Endo), focusing on the clinical practice of advance (OP & Endo) clinical procedures of different types of fillings, composite laminate, inlay and onlays restorations in dental clinic and Endodontics of complex Cases and new generations in materials and techniques. It covers diagnosis and management of patients in need of the (OP & Endo) and treatment planning for different cases. Its theoretical part covers advance topics of (OP & Endo) to enhance students' confidence in a comprehensive care environment.

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

## After completing this course, students will be able to:

1	Identify the properties, limitations, and proper using of the rotary instruments and different modern
a.1	modalities as it is necessary for a safe endodontic practice, and operative dentistry
- 2	Recognize the latest evolutions in different clinical procedures of the operative and endodontic
a.2	treatment.
	Demonstrate the applications and indications of CBCT imaging in operative and endodontics, and
b.1	recognize how it assists in helping to determine a definitive diagnosis, anatomy, complications, and
	treatment prognosis.
b.2	Apply critical thinking and problem solving, including their use in the comprehensive care of patients
0.2	in operative and endodontics practice.
b.3	Differentiate between the basic and modern technologies, instruments and materials, and understand the
0.5	comprehensive approach of its use.
c.1	Illustrate cases that need to CBCT imaging and discuss it if obtained in (OP & Endo) filed.
c.2	Determine when to treat and when to refer a case to a specialist.
c.3	Provide a quality comprehensive care for the patients in (OP & Endo) practice.
d.1	Recognize the importance of lifelong learning by conducting seminars in some important and recent
u. 1	topics related to the operative and endodontic field.
d.2	Save patient's data including diagnosis and treatment steps in a patient file.
d.3	work coherently and successfully as a part of a team in discussions and problem solving that related to
u.5	(OP & Endo).

# V. Course Content:

#### A. Theoretical Aspect:

Order	Units/Topics List	Sub-Topics List	Number of Weeks	contact hours
1	Concept and principles of dental esthetics	<ul> <li>Introduction</li> <li>Design</li> <li>Guidelines in rotary preparation Available systems Instrumentation strategies</li> </ul>	1 <sup>st</sup>	2
2	Rotary endodontics and Endodontic regeneration	Clinical applications for images	2 <sup>nd</sup>	2
3	Practical Clinical Photography	<ul> <li>Introduction</li> <li>Advantages and disadvantages</li> <li>Applications and indications How to use CBCT</li> </ul>	3 <sup>rd</sup>	2
4	CBCT in endodontic	Seminar	4 <sup>th</sup>	2

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5	Restorative treatment of Diastema.	Seminar	5 <sup>th</sup>	2
6	Advanced diagnostic aids in endodontics Minimally invasive access cavity design	Seminar	6 <sup>th</sup>	2
7	Magnification in endodontics and Apex locator			2
8	Mid	-term Exam	8 <sup>th</sup>	2
9	Digital Impression Devices and CAD/CAM Systems.	Seminar	9 <sup>th</sup>	2
10	Root canal preparation and Root canal obturation	Seminar	10 <sup>th</sup>	2
11	Digital Smile Design	Seminar	11 <sup>th</sup>	2
12	Endodontic mishaps	Seminar	12 <sup>th</sup>	2
13	Bleaching	Seminar	13 <sup>th</sup>	2
14	Maintenance of esthetic restorations.	Seminar	14 <sup>th</sup>	2
15	Review	Review	15 <sup>th</sup>	2
16	Fi	nal Exam	16 <sup>th</sup>	2
	Number of Weeks /a	and Units Per Semester	16	32

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	B. Practical//Clinical Aspects		
No.	Practical//Clinical topics	No. of Weeks	<b>Contact Hours</b>
1	Comprehensive care including (restorations from each class, endodontic treatment for single and multi-canals teeth and esthetic and complex cases in operative clinical practice.	$1^{st}-13^{th}$	156
2	Final Clinical Exam	14 <sup>th</sup>	3
Total	number of weeks and hours	14	159

## VI. Teaching strategies of the course:

- Interactive lectures, Lectures, in which concepts, approaches and case studies are presented and explored
- Presentations by students and discussions in class
- Classroom discussions
- Brainstorming
- Group projects
- Clinic tutorials and practical sessions
- Group and pair work
- Problem solving
- learning in groups and team works

VI	VI. Assignments:				
No	Assignments	Week Due	Mark	Proportion of Final Assessment	
1	Assignment 1: study requirements	weekly	30	30%	
2	Assignment 2: Seminars	5-14	10	10%	
	Total		40	40%	

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# VII. Learning Assessment

No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment
1	Assignments	Weekly	30	30%
2	Seminars	5-14	10	10%
3	Mid-Term Theoretical Exam	8	10	10%
4	Final Clinical Exam	14	20	20%
5	Final Theoretical Exam 16		30	30%
	Total		100	100%

# VIII. Learning Resources:

#### 1- Required Textbook(s) (maximum two).

- 1- S. Cohen, and M. Hargreaves, 2016, COHEN'S PATHWAYS OF THE PULP, 11th edition, Elsevier Inc.
- 2- Mahmoud Torabinejad, 2021, Endodontics Principles and Practice, 6th edition, Elsevier Inc.
- 3- Ronald E., 2018, Goldstein's Esthetic in Dentistry.

### 2- Essential References.

- 1- Rudolf Beer, 2006, Pocket Atlas of Endodontics, 4th edition, Elsevier Inc.
- 2- Art and Science

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

#### Websites:

- http://www.Journal of prosthetic dentistry
- http://www.International journal of prosthetic dentistry
- http://www.Journal of advanced prosthodontic

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#### IX. **Course Policies:**

#### **Class Attendance:**

- Attendance of students is taken at beginning of lecture time.
- After 15 minutes of lecture time the student is considered absent.
- When student has been absent for more than 25% of course contents, the student should be prohibited for entrance the final exam.

#### Tardy:

1

3

4

5

2 - 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.

#### **Exam Attendance/Punctuality:**

- -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 2<sup>nd</sup> trial.

#### **Assignments & Projects:**

- -- 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.

#### Cheating:

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 2<sup>nd</sup> cheating trial and final segregation from the university after accreditation of university council in 3rd

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	cheating trial.
6	Plagiarism: -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 policePlagiarism 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.
7	Other policies: -The student should be followed the instructions for the exam entrance The student should be followed all systems & laws of the university.