

1	Course title	Conservative Dentistry 3 – practical
2	Course number	1302416
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	90
4	Prerequisites/corequisites	Conservative dentistry 1 and 2 practical
5	Program title	DDS program
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Dentistry
9	Department	Restorative Dentistry
10	Level of course	4 <sup>th</sup> year
11	Year of study and semester (s)	first and second semesters 2022/2023
12	Final Qualification	DDS
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	September 2022

#### 16. Course Coordinator:

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

*Dr. Rawan Abu Zaghlan. Office hours: Sunday 12-1pm. Phone no.23552, E-mail: [r.abuzaghlan@ju.edu.jo](mailto:r.abuzaghlan@ju.edu.jo)*

#### 17. Other instructors:

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

*Prof. Awni Al-Kayed, office hours: Sun.10-12, phone: 23552, E-mail: [amkayed48@hotmail.com](mailto:amkayed48@hotmail.com)*

*Prof. Amen Khraisat. Office hours: Sun. 9-11 phone: 23552, E-mail: [a.khraisat@ju.edu.jo](mailto:a.khraisat@ju.edu.jo)*

*Prof. Fouad Kadim, office hours: Sun.11-12, Tue: 12-1, phone: 23552, E-mail: [fouadk@ju.edu.jo](mailto:fouadk@ju.edu.jo)*

*Prof. Jamal Aqrabawi, office hours: Mon.12-2. phone:23552, E-mail: [jamal58@go.com](mailto:jamal58@go.com)*

*Dr. Susan Hattar, office hours: Mon.12-2. phone: 23552, Email: [s.hattar@ju.edu.jo](mailto:s.hattar@ju.edu.jo)*

*Dr. Firas Shaini Phone no. 065355000 Ext 23552, E-mail: [den5fjs6@hotmail.com](mailto:den5fjs6@hotmail.com)*

*Dr. Ahmad Maaita, phone no.23552, E-mail: [ahmadmayyta@hotmail.com](mailto:ahmadmayyta@hotmail.com)*

Dr. Ibrahim Abu-Tahum, office hours: Wed: 12-2. phone:23552, E-mail: [ihahun@yahoo.com](mailto:ihahun@yahoo.com)  
Dr. Mohammad Hammad, office hours: Tues. 11-1 phone no.23552, E-mail: [m.hammad@ju.edu.jo](mailto:m.hammad@ju.edu.jo)  
Dr. Alaa Sabra, office hours: Wed.11-1, phone:23552, E-mail: [sabralolo@yahoo.com](mailto:sabralolo@yahoo.com)  
Dr. Ayah Al-asmr, phone: 23552, E-mail: [dr.ayahalasmr@yahoo.com](mailto:dr.ayahalasmr@yahoo.com)  
Dr Alaa Haddad Phone no. 065355000 Ext 23552, E-mail: [alhaddad.alaa@gmail.com](mailto:alhaddad.alaa@gmail.com)  
Dr. Sana Jamaani. Phone no. 065355000 Ext 23552, E-mail: [sana.jamaani@gmail.com](mailto:sana.jamaani@gmail.com)  
Dr. Sari Mahasneh Phone no. 065355000 Ext 23552, E-mail: [sari-mahasneh@hotmail.com](mailto:sari-mahasneh@hotmail.com)  
Dr Yara Oweis Phone no. 065355000 Ext 23552, E-mail: [yara.oweis@mail.mcgill.ca](mailto:yara.oweis@mail.mcgill.ca)  
Dr Islam Abd AlRaheem Phone no. 065355000 Ext 23552, E-mail: [islam.raheem@gmail.com](mailto:islam.raheem@gmail.com)  
Dr Noor Ismail Phone no. 065355000 Ext 23552, E-mail: [noor.ismail26@yahoo.com](mailto:noor.ismail26@yahoo.com)

## 18. Course Description:

Clinical practice in the restoration of teeth and provision of root canal treatment for anterior and premolar teeth—including attendant diagnostic procedures, planning and sequencing of treatment, disease control procedures, and appropriate continuing-care procedures following treatment.

## 19. Course aims and outcomes:

### A– Aims:

The objectives of this course are:

- Produce safe, competent and ethical practitioners equipped with the necessary knowledge, skills and behaviours (attitudes) appropriate to engage in the independent practice of dentistry
- Emphasize the importance of thorough history taking, extra and intra-oral examinations, in addition to providing a comprehensive treatment plan for patients
- Emphasize the importance of skilful dentist-patient communication in treatment success and patient satisfaction
- Obtain written records of patient related information including their personal information, consent forms, examination results, treatment plans, prescribed drugs and progress notes observing records confidentiality
- Provide understanding of various diagnostic techniques in relation to carious lesions and their applications
- Provide understanding of various diagnostic techniques in relation to pulpal and periapical disease and their limitations
- Consolidate skills of cavity preparation and clinical handling of the most common direct restorative materials
- Emphasize the importance of periodontal considerations in relation to restorative dentistry
- Adhering to patient management and cross infection control guidelines

### **Intended Learning Outcomes:**

Successful completion of this course should lead to the following learning outcomes:

- Students should be able to use their allocated unit and position themselves in the correct position throughout the simulated clinical exercises.
- Students should be able to apply the cross-infection control methods.

**A. Knowledge and understanding, student should:**

- Be able to discuss various etiological factors related to caries
- Be able to describe various etiological factors related to non-cariou lesions
- Be able to discuss various etiological factors related to teeth discoloration
- Be able to discuss the effect of trauma on teeth and periodontium
- Be able to recognize various pulpal and periapical diseases

**B. Intellectual skills, with ability to:**

- List the differential diagnosis and differentiate the key factors of each carious and non-cariou tooth tissue loss
- Analyse whether a restoration is needed and suggest the relative merits or demerits of possible restorative intervention
- Use preventive approaches whenever indicated

**C. Subject specific skills, with ability to:**

- Perform appropriate cavity design in relation to disease, materials and the patient
- Deal with traumatic dental injuries
- Deal with non-cariou lesions, preventive and simple restorative measures
- Deal with teeth discoloration by conservative methods or direct restorations
- Perform successful root canal treatment of anterior and premolar teeth
- Take radiographs by paralleling technique during root canal treatment under rubber-dam isolation
- Apply rubber-dam in various conditions

**D. Transferable skills, with ability to:**

- Understand the importance of considering various etiological and risk factors contributing to tooth surface loss and pulpal disease in formulating an integrated treatment plan, that covers the dental needs of a patient, and the importance of consultation with other specialties, referral and team work.

**20. Topic Outline and Schedule:**

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
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## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Teaching methods:

**Duration:** 28 weeks, 84 hours actual clinical practice.

**Lectures/Practical Sessions:** students are having one ( 3 hour clinic/week)=28 clinics per year

## 22. Evaluation Methods and Course Requirements:

This course covers the basics in operative dentistry and endodontics.

Students get one 3-hour clinic per week; an average of 28 clinics throughout the year.

In order to pass the course, students must satisfy **ALL** the following conditions:

- 1- Complete the minimum clinical requirements
- 2- Achieve all the assigned competencies
- 3- Achieve an overall pass mark (50% or higher)

### i- Clinical requirements:

**a- Operative dentistry:** a minimum of 15 points (maximum 30)

Points are worked out as follows:

GIC restorations	0.5 point
One surface direct restoration (Class I)	1 point
Multiple surface restorations (Core build up after endodontic treatment, Class III, Class IV, Class II (MO or DO))	2 points
MOD restorations	3 points

**b- Endodontics:** a minimum of 3 canals (minimum 1 anterior tooth and 1 premolar) (maximum 6)

### ii- Competencies:

Students must prove their competence in **ALL** of the following procedures:

1. Matrix placement for posterior restoration
  2. Anterior composite restoration
  3. Single tooth isolation with rubber dam
  4. Access cavity to an anterior or a premolar tooth
  5. Root canal obturation
- Criteria for competencies are explained in the students' logbook.
  - Each competency must be approved and signed by two instructors.

### iii- Grading system:

Term-time work is graded out of 60 and the final OSCE exam out of 40. Term-time work is divided into operative dentistry (30 marks) and endodontics (30 marks).

**a- Operative dentistry:**

Each point of clinical work translates into 1 mark.

The grading scale used is as follows: A:1, B: 0.8, C: 0.6, D: 0.4 and F: 0)

The student's score in this part is the sum of points multiplied by their alphabetic grades factor.

**b- Endodontics:**

Each canal translates into 5 marks.

The same grading scale as that of operative dentistry is used

The student's score in this part is the sum of the canals multiplied by their grades.

**c- Competencies must be achieved and signed but are not graded**

In order to pass the course, students must satisfy **All** the following conditions:

1. complete the minimum requirements (15 points and 3 root canals)
2. Achieve minimum grade of 30 out of 60 in the term-time work
3. Achieve all the assigned competencies
4. Achieve an overall pass mark (50% or higher)

**d- Violations of professional conduct result in deduction of 1 mark out the total grade for each violation.**

**General Regulations**

- Fourth year students are not allowed to perform advanced restorative work such as diastema closure, composite veneers, post and core build-up and 4-surface restorations.
- Violations of cross infection control and professional conduct will not be tolerated and **WILL** result in dismissal from the clinical session and, if repeated, suspension from attending one or more clinical sessions.

**24. Required equipment:**

Endodontic set, Amalgam set, Composite set, periodontal probe.

**25. References:**

A- Required book (s), assigned reading and audio-visuals:


- **Sturdevant's Art and Science of Operative Dentistry**, 5<sup>th</sup> edition, Theodore M. Roberson, Harold O. Heymann, Edward J. Swift Jr.
- **Fundamentals of Operative Dentistry ; a Contemporary Approach**, 3<sup>rd</sup> edition, James B. Summitt, J. William Robbins, Thomas J. Hilton, Richard S. Schwartz, Jose, Jr. DOS Santos
- **Principles and practice of endodontics**, 2<sup>nd</sup> edition, Walton & Torabinejad

B- Recommended books, materials, and media:

- **Pathways of the pulp**, 8<sup>th</sup> edition, Stephen Cohen, Kenneth M. Hargreaves.

**26. Additional information:**

None

Name of Course Coordinator: Dr *Rawan Abu Zaghlan*. Signature:  Date: 06/9/2022

Head of curriculum committee/Department: -----Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----

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 Head of Department  
 Assistant Dean for Quality Assurance  
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