



Form Course Syllabus	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963 05/12/2022
	Number and Date of Revision or Modification	
	Deans Council Approval Decision Number	2/3/24/2023
	The Date of the Deans Council Approval Decision	23/01/2023
	Number of Pages	06

1.	Course Title	Conservative Dentistry 5 – practical
2.	Course Number	1304544
3.	Credit Hours (Theory, Practical)	6 credit hours (practical)
	Contact Hours (Theory, Practical)	3 hours/ week
4.	Prerequisites/ Corequisites	
5.	Program Title	Doctor of Dental Surgery (DDS)
6.	Program Code	NA
7.	School/ Center	School of Dentistry
8.	Department	Restorative Department
9.	Course Level	Bachelor
10.	Year of Study and Semester (s)	Fifth year – first and second semesters
11.	Other Department(s) Involved in Teaching the Course	Restorative department
12.	Main Learning Language	English
13.	Learning Types	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online
14.	Online Platforms(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams
15.	Issuing Date	1/9/2019
16.	Revision Date	16/8/2024

17. Course Coordinator:

Name: Dr. Islam Abd Alraheam	Contact hours: Monday 8:30-12:30/ Thursday 8:30-12:30
Office number: 211	Phone number: -
Email: i.abdalraheam@ju.edu.jo	



18. 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
- Prof. Fouad Kadim, office hours: Sun.11-12, Tue: 12-1, phone: 23552, E-mail: fouadk@ju.edu.jo
- Prof. Jamal Aqrabawi, office hours: Mon.12-2. phone:23552, E-mail:jamal58@go.com
- Prof. Leena Smadi, office hours: phone no.23552, E-mail: l.smadi@ju.edu.jo
- Dr. Mohammad Al-Rababah, office hours:Wed.1:30-2:30., phone no.23552, E-mail: m.alrababah@ju.edu.jo
- Dr. Susan Hattar, office hours: Mon.12-2.,phone: 23552, Email: s.hattar@ju.edu.jo
- Dr. Ahmad Maaaita, office hours,phone no.23552, E-mail:ahmadmayyta@hotmail.com
- Prof. Ibrahim Abu-Tahum, office hours: Wed: 12-2.phone:23552,E-mail: ihtahun@yahoo.com
- Dr. Mohammad Hammad, office hours: Tues. 11-1 phone no.23552, E-mail: m.hammad@ju.edu.jo
- Dr. Alaa Sabra, office hours:Wed.11-1,phone:23552,E-mail: sabralolo@yahoo.com
- Dr. Sari Mahasneh phone 23552 E-mail : sari.mahasneh@ju.edu.jo
- Dr.Alaa Haddad, phone: 235520, E-mail: alaahaddad@yahoo.com
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- Dr.Noor Ismail, phone no.23552, E-mail:noor.ismail26@yahoo.com
- Dr.Islam Abd Al-Raheam, phone no.23552, E-mail:islam.raheam@gmail.com
- Dr. Sanaa Jamaani, phone No. 23552, email : s.aljam-ani@liverpool.ac.uk
- Dr. Marwa Alnsoor, phone No. 23552, email : Ma_alnsoor@ju.edu.jo

Many other part-time faculty members. (15)

19. Course Description:

This course provides the student with the opportunity to examine and treat patients within the scope of restorative dentistry (Operative Dentistry, Endodontics and fixed Prosthodontics). This includes the diagnosis of various functional and aesthetic problems, the formulations of comprehensive treatment plans and the practice of various restorative procedures.

20. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

1. Utilize knowledge in the basic medical and dental sciences with emphasis on subjects and systems with direct relation to oral health and oral function.
2. Communicate effectively and sensibly by spoken and written means, with patients, parents, guardians, peers, staff and faculty.
3. Obtain and record an accurate and comprehensive medical and dental history from patients, and produce an appropriate systematic intra- and extra-oral clinical examination.
4. Interpret the significance of history and examination and employ relevant special investigations and diagnostic procedures to develop appropriate differential diagnoses and treatment plans.
5. Demonstrate proficiency in conducting different clinical procedures of specialized areas of dentistry at a level that is appropriate for a general dentist.



6. Promote oral health and disease prevention measures to individual patients and employ them in the society.
7. Practice and apply a wide range of skills, including investigative, analytical, problem-solving, critical thinking, planning, presentation and team work skills.
8. Adhere to the legal, ethical and professional responsibilities while practicing dentistry.
9. Apply safety measures for self, dental team, and patient while providing treatment, taking into consideration the medico-legal issues.
10. Recognize, evaluate and manage medical and dental emergencies appropriately.
11. Utilize contemporary information and technology tools available for dentist for continuing self-education, medical records and communication.
12. Apply and evaluate research and new information to dental practice.

21. Course Intended Learning Outcomes: (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

- 1) (S1): Obtain and analyse information from their patients.
- 2) (S2): Use the gathered information and diagnostic methods and tools to make a diagnosis of their patients' problem(s)
- 3) (S3): Establish treatment plans taking into consideration their patients' wishes and concerns.
- 4) (S4): Perform the basic procedures in restorative dentistry to a satisfactory level including simple restorations, fixed prosthodontic work, and root canal treatments.
- 5) (C1): Arrange for long-term maintenance of oral health.

Course ILOs	The learning levels to be achieved					
	Remembering	Understanding	Applying	Analysing	evaluating	Creating
1				*		
2					*	
3						*
4						*
5						*



22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program:

Program ILOs Course ILOs	ILO (1)	ILO (2)	ILO (3)	ILO (4)	ILO (5)
1	*	*	*		
2	*	*	*		
3	*	*	*		
4	*	*	*		
5	*	*	*	*	
6	*	*	*	*	
7		*	*	*	
8			*	*	
9				*	
10				*	
11					*
12					*

**23. Topic Outline and Schedule:**

The topics covered in the theory part are practiced throughout the academic year.

Week	Lecture	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully Online)	Platform Used	Synchronous / Asynchronous	Evaluation Methods	Learning Resources
1	1.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
2	2.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
3	3.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
4	4.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
5	5.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
6	6.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
7	7.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
8	8.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
9	9.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
10	10.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
11	11.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
12	12.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
13	13.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse
14	14.1	Treat patients in student clinic	Al 1	Face to face	Teams		Discussed below	The theory coarse



15	15.1	Treat patients in student clinic	A11	Face to face	Teams		Discussed below	The theory coarse
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24. Evaluation Methods:

- This course covers an intermediate level of restorative dentistry with an emphasis on diagnosis and treatment planning, fixed prosthodontics, endodontics of molar teeth and operative dentistry.
- A comprehensive multidisciplinary approach for managing dental and oral health problems is encouraged, and students are expected to present one case towards the end of the first semester (short case viva) and one case by the end of the year showing their comprehensive management of a patient (comprehensive case).
- Students have a one 2.5 hours clinic per week cumulating into 28 clinical sessions (70 clinical contact hours) throughout the year.
- The grading system is a competency-based, quality-based system. Quantity will not have any extra merit.
- Students will perform the usual restorative procedures under supervision and will sign the case after completion without obtaining a mark for the procedure. There are NO grades for the procedure itself. Only achieved competencies done throughout the procedure will be acknowledged.
- The overall grade (100 marks) is divided into 60 marks for through-year-assessment and 40 marks for the final exam.
- The 60 marks are divided into 30 marks for competencies, 10 marks for short case presentation viva and 20 marks for the comprehensive case.

24.a Competencies (30 marks):

- Students **must** perform 10 mandatory competencies (20 marks).
- Students may perform **some of the optional** competencies (10 marks) from a list of 10 optional competencies.



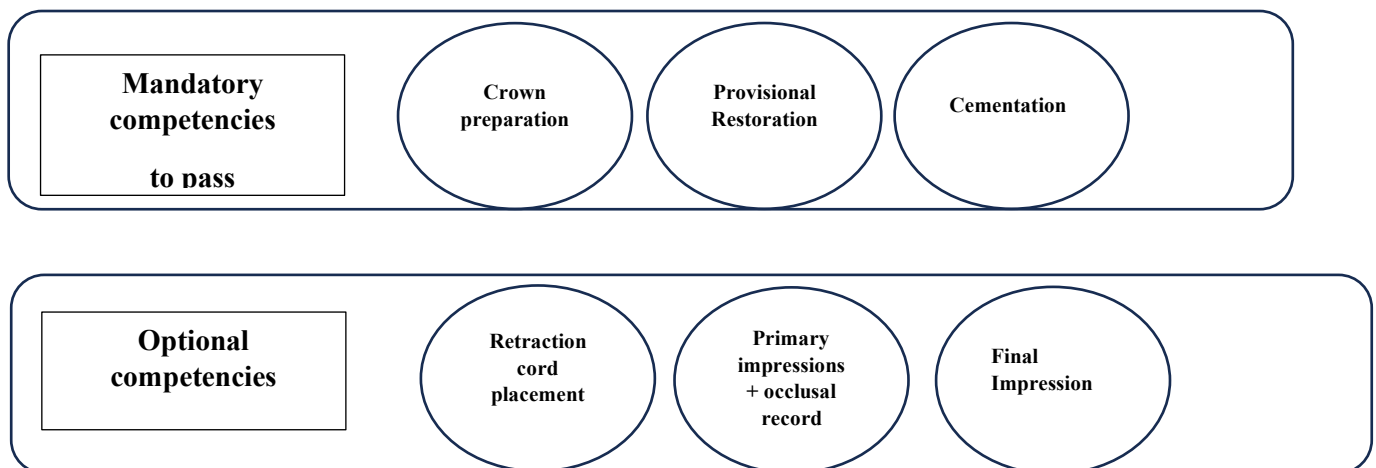
- No compensation in marks between mandatory and optional groups is allowed. Maximum mark achieved in optional competencies group is 10 marks, even if student successfully attempts all 10 **optional** competencies.
- To carry out a successful competency, students must perform the competency to a (meet expectations) or (exceed expectations) level. If student performance does not meet expectations, student needs to re-attempt the competency in another session.
- If student achieves (meet expectation) he will gain one mark and if achieves (exceed expectation) will gain 2 marks and if it is does not meet expectations, the competency has to be re-done.

- | |
|--|
| <ul style="list-style-type: none"> • Meet expectations: good results without supervisor guidance OR very good/excellent results with supervisor guidance or assistance. • Exceed expectations: very good/excellent results without supervisor guidance. • Does not meet expectations: good results with supervisor guidance or anything below this level. |
|--|
- Competencies will be evaluated and signed by one supervisor. No need for two signatures.
 - In the case of long procedures in which the student can achieve more than one **mandatory competency** from the same procedure, the student's supervisor can only sign and mark one mandatory competency, other attempted mandatory competencies on the same case must be signed by any other available supervisor teaching in the same session. **Exception is in the operative dentistry competencies, where two out of four mandatory competencies can be signed by the same supervisor.**
 - The competencies for the fixed prosthodontics and the endodontics will be signed by the supervisor the day the students achieved it, but the electronic system will only count it after the student finishes the case. E.g.: access cavity competency will be counted after the student finishes the obturation and submit the progress note.
 - Students will be divided into groups. Each group will have a group leader who is a full-time faculty member in the restorative dentistry department.
 - All competencies marked with does not meet expectations level must be documented and the reason for rejection should be documented too. If the same supervisor rejected the same competency twice, student has to meet with his/her allocated group leader to follow up on this issue. It is totally the student responsibility to document the attempts and inform the group leader.

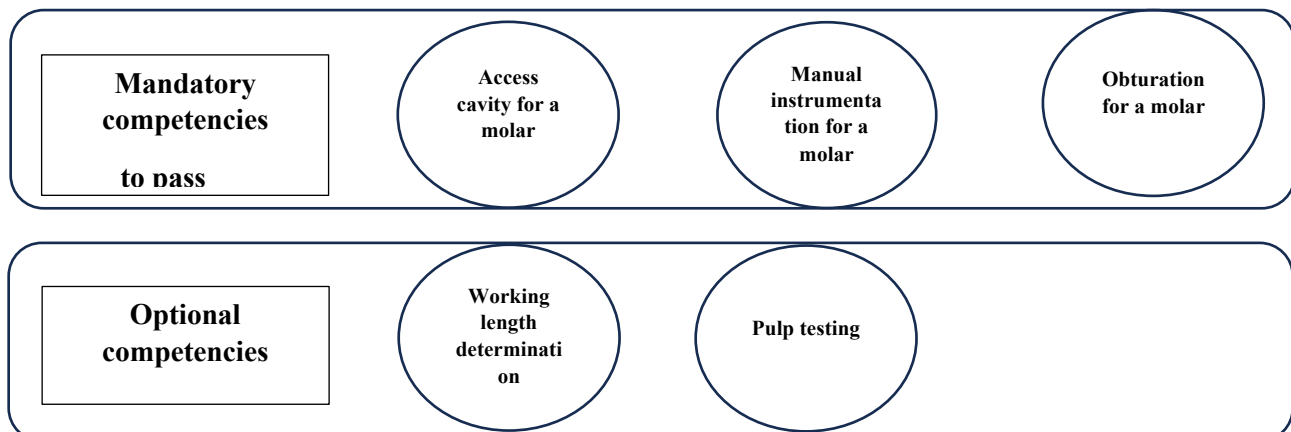


- Criteria for competencies are explained in the students' logbook.
- In order to sit for the makeup exam, students must complete all the mandatory competencies with meet expectations or exceed expectations level.
- **Students who do not complete all the mandatory competencies will be given the chance to achieve them in the last two weeks of the second semester. Students who never attempted the competency or did not document the "does not meet expectations" attempts cannot have a grade more than "meet expectations".**
- As stated earlier, quantity has no extra merit or grades.

Fixed prosthodontics

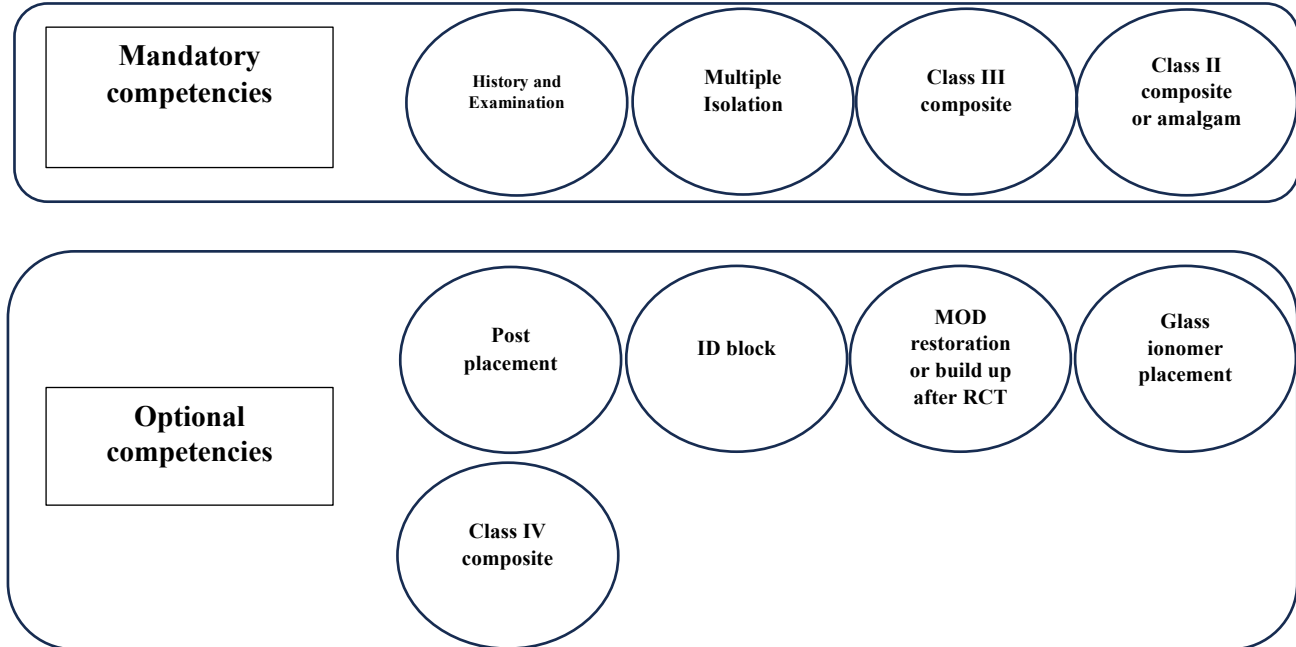


Endodontics





Operative dentistry



- All students should successfully perform the employability skills competencies which include the followings: (most of them are part of the mandatory competencies required for graduation)
 - 1) Multiple isolation
 - 2) Class II restoration
 - 3) Provisional crown or bridge
 - 4) Writing referral letter for endodontist (student should do it whether they needed it for their patients or not).

24.b Cases which can be approved for the fixed prosthodontics competencies:

- Types of fixed components can range from full coverage crown, fixed-fixed bridge, fixed-movable bridge, cantilever bridge, resin-bonded bridges.
- Patient must have good oral hygiene, stable occlusion and can be controlled (periodontally and caries wise). **Patients who have rampant caries and/or very bad oral hygiene are not indicated.**
- Patients with short clinical crowns are not indicated for fixed partial denture or crowns.



- Patients who are less than 25 years old with missing posterior tooth and vital healthy abutment teeth should be educated that leaving the space without treatment or placing implant to replace the missing tooth is the best approach for them. Treating them with a fixed partial denture is not indicated.
- Any fixed case should be documented by clinical photographs and radiographs before and after treatment. Preoperative diagnostic models should be done.

24.c Cases which can be approved for the endodontic competencies:

- Each student is expected to perform molar root canal treatment either included in the comprehensive case or in a separate case.
- Anterior and premolar root canal treatments are allowed if they are part of the comprehensive case.

24.d Short Case Presentation Viva

- This will be carried out in the last two weeks of the first semester.
- Students will not be treating patients in the last two weeks of the first semester.
- In this viva, students will present a case that they began treating during the semester.
- Students will be mainly evaluated for *treatment planning and diagnosis*.
- The amount of work attempted on the patient will not be significant and won't be graded or marked. **However, mounted study models, radiographs and clinical photographs should be available.**
- All patient records should be available for the examiners. No need for the patient to attend the viva.

*Rubrics for short case viva:

1- Investigations carried out (2/10)



2/2: Proper history taken, full examination done and documented involving using proper examination tests and tools.

1/2: History and examination done properly. However, some points had been overlooked but without compromising the treatment plan.

0/2: The whole process of investigations is defective and shows lack of knowledge and/or awareness to the basics of examination.

2- Diagnosis (2/10)

2/2: A detailed and accurate list of diagnosis and clinical findings.

1/2: Diagnosis is satisfactory.

0/2: Unacceptable differential diagnoses.

3- Treatment planning (2/10)

2/2: The initial patient's chief complaints were addressed in the proposed treatment plan.

1/2: Most patient's complaints were addressed but there is minor active disease which was overlooked or missed in the proposed treatment plan.

0/2: Patient's complaints were not addressed properly and or there is major active disease which was overlooked or missed in the proposed treatment plan.

4- Theoretical knowledge/ ability to answer questions. (2/10)

2/2: Excellent knowledge. Student answered all questions correctly.

1/2: Acceptable knowledge. However, some questions were not answered correctly.

0/2: Poor knowledge and questionable decision making, or the student is unsafe to practice dentistry with this level of knowledge.

5- Quality of presentation. (2/10)



2/2: Excellent case presentation including the use of scientific language, computer presentation showing proper documentation of the case by clinical photographs, radiographs, and **mounted study models**. The presentation was completed within the allocated time frame.

1/2: Poor presentation including poor language, insufficient use of photographs/illustrations, improperly displayed radiographs and/or study models and exceeding the allocated time (or not using it effectively)

0/2: Very poor presentation. Improper documentation. Examiners lost the interest to listen or ask questions.

24.e Comprehensive Case:

- Each student is expected to complete and present **ONE** clinical case that involves all disciplines of restorative dentistry (Operative dentistry, Prosthodontics, Endodontics (if possible) and Periodontics) during the last two weeks of the second semester. Last teaching day for students will be the last day prior to the final two weeks of the second semester.
- For the clinical case to be considered a comprehensive one, **ALL** the following questions must be answered with a YES.
 - 1- Is the treatment plan reasonable? (Are the treatment items justifiable?)
 - 2- Was the treatment plan approved **and** signed by the supervisor prior to treatment start?
 - 3- Does the case require multi-disciplinary treatment? (Operative dentistry, Prosthodontics, and Periodontics)
 - 4- Was the case properly documented (photographs, radiographs, study casts... etc)?
- This will be in the last two weeks of **the second semester**. No patient treatments will be carried out in the last two weeks of the second semester as this time will be specified for the comprehensive case discussion. Patient should be available for the supervisors to check the overall treatment plan and if the case is stabilized and properly managed.
- Comprehensive cases has to be fully treated with no active disease (exception is when the student cannot perform the treatment such as re-endo), if there is any active disease then the cases are not considered complete and this will impact the final grade.



***Rubrics for comprehensive case assessment: (the overall grade is achieved by multiplying the sum of all the following criteria by 2 to get the total out of 20)**

1- Investigation carried out, diagnosis and treatment planning (2/10)

2/2: Proper history taken, full examination done and documented. A detailed and accurate list of diagnosis and clinical findings, and a treatment plan that is conservative, addresses the patient's needs and is cost effective.

1/2: History and examination done properly. However, some points had been overlooked but without compromising the treatment plan. Diagnosis is satisfactory. Treatment plan is reasonable and addresses the patient's needs. However, some treatment items can be controversial or aggressive.

0/2: The whole process from investigation to treatment planning is defective and shows lack of knowledge and/or awareness to the basics of treatment planning.

2- Quality and complexity of work. (2/10)

2/2: Treatment provided is of immaculate quality and involves some advanced dental work (including fixed bridge work and molar root canal treatment).

1/2: Dental treatment provided is of poor quality and/or too simple.

0/2: Unacceptable level of quality or complexity.

3- Patient attendance (1/10)

1/1: Patient is available for examination by the committee members.

0/1: Patient is unavailable for examination by the committee members.

4- Addressing the patient's chief complaints and if the patient is disease free by the end of treatment (2/10)

2/2: The initial patient's chief complaints were addressed and there is no active disease by the end of treatment.



1/2: Most patient's complaints were addressed but there is minor active disease which was overlooked or missed.

0/2: Patient's complaints were not addressed properly and or there is major active disease which was overlooked or missed.

5- Theoretical knowledge/ ability to answer questions. (2/10)

2/2: Excellent knowledge. Student answered all questions correctly.

1/2: Acceptable knowledge. However, some questions were not answered correctly.

0/2: Poor knowledge and questionable decision making, or the student is unsafe to practice dentistry with this level of knowledge.

6- Quality of presentation. (1/10)

1/1: Excellent case presentation including the use of scientific language, computer presentation showing proper documentation of the case by clinical photographs and radiographs before and after treatment. The presentation was completed within the allocated time frame.

0.5/1: Poor presentation including poor language, insufficient use of photographs/illustrations, improperly displayed radiographs and/or casts and exceeding the allocated time (or not using it effectively)

0/1: Very poor presentation. Improper documentation of the before and after records. Examiners lost the interest to listen or ask questions.

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Total grade (/100)				
Term-time clinical work (/60)			Final exams (/40)	
Competencies (/30)	Short case viva (/10)	Comprehensive case (/20)	OSCE	Viva



Mandatory	Optional			(/30)	(/10)
(20)	(10)				

25. Course Requirements:

Most equipment is provided by the Faculty of Dentistry and the JUH. Students are expected to have their own basic examination and restorative kits and disposables.

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.

26. Course Policies:

- Attendance policies:

Attendance is obligatory. Students are not allowed to attend final exam if they exceed the permitted percentage set in the UJ's regulations.

B- Absences from exams and handing in assignments on time:

The student will be allowed to set for a make-up exam if he/she did not attend the exam due to an acceptable excuse and the excuse was presented in due time as set in the UJ's regulations. If he/she did not attend an exam without an acceptable excuse the student's mark for that exam will be zero

C- Health and safety procedures:

Meticulous cross-infection control and needle stick injury precautions. The supervisor has the right to dismiss the student from the clinic if he does not comply with safety and cross infection control measures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Cheating is considered an unacceptable behavior in exams and a reason for unsuccessful course result. Please refer for your Student Guide book for detailed regulations.



The Supervisor has the right to dismiss the student from clinic if he is caught receiving help from one of his colleagues.

E- Grading policy:

60% of the final grade is assigned to term-time work, The other 40% is assigned to the final exams (30% clinical or OSCE and 10% viva).

Percentage marks are converted to letters. (A)/(A-) are usually given for top 10-15% of students. Percentage mark < 50 does not automatically mean a mark of (D-) or (F)

F- Available university services that support achievement in the course:

Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Moodle e-learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of Dentistry. A lot of other facilities and support can be provided through the Deanship of Student Affairs. F- Available university services that support achievement in the course:

27. References:

- A1- Rosenstiel FS, Land MF, Fujimoto J. **Contemporary fixed prosthodontics**. St Louis: Mosby.
- 2- Shillingburg HT, Hobo S, Whitset LD. **Fundamentals of fixed prosthodontics**. Quintessence, Chicago
- 3- Sturdevant, C. M., Barton, R. E. **The art and science of operative dentistry**. The C. V. Mosby Co. St. Louis.
- 4- Baum, L., Phillips, R. W., Lund, R. M. **Textbook of operative dentistry**. W. B. Saunders Co. Philadelphia.
- 5- Cohen, S., and Burns, R. C. **Pathways of the pulp**. The C. V. Mosby Co. St. Louis.
- 6- Walton, R. E. and Torabinejad, M. **Principles and practice of endodontics**. W. B. Saunders Co. Philadelphia.

28. Additional information:

**Expected workload:**

Students are getting one clinic 2 hours per week. Through the year students will get upon average 28 clinics.

Feedback

Concerns or complaints should be expressed in the first instance to the course co-ordinator. If no resolution is forthcoming then the issue should be brought to the attention of the department chair and if still unresolved to the dean.

Name of the Instructor or the Course Coordinator:	Signature: Dr. Islam Abd Alraheam	Date: 16/8/2024
Name of the Head of Quality Assurance Committee/ Department	Signature:	Date:
Name of the Head of Department	Signature:	Date:
Name of the Head of Quality Assurance Committee/ School or Center	Signature:	Date:
Name of the Dean or the Director	Signature:	Date: