



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Allied Dental Sciences Department

ADS226 Cariology - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. This course is designed to bring the Allied Dental Science students to the current knowledge in dental caries. Emphasis will be placed on the etiology, modifying factors, risk evaluation, development, diagnosis, epidemiology, and prevention of dental caries

Teaching Method: Blended

Text Book

Title	Essentials of dental caries.
Author(s)	Edwina A.M. Kidd and Ole Fejerskov
Edition	4th Edition
Short Name	Ref #1
Other Information	Oxford University Press. 2016. ISBN-10: 0198738269. ISBN-13: 978-0198738268

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Diagnosis and risk prediction of dental caries.	Per Axelsson	3rd Edition	2000, Quintessence Books
Ref #3	Understanding dental caries Part 1 ? Etiology and mechanisms, basic and clinical aspects.	Gordon Nikiforuk	1st Edition	1985. Karger Company
Ref #4	Understanding dental caries Part 2 ? Prevention, basic and clinical aspects.	Gordon Nikiforuk	1st Edition	1985. Karger Company

Instructor

Name	Miss Suhair Obeidat
Office Location	AMS 2nd floor

Office Hours	
Email	saobeidat@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon : 11:30 - 12:30 Room: PH2102

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Orientation into the course syllabus	
Week 2	Introduction to dental caries	From Ref #1
Week 3	Earlier & current theories of dental caries development	From Ref #1
Week 4	Classification of dental caries	From Ref #1
Week 5	Microbiology of dental caries/ Role of plaque and cariogenic microflora	From Ref #1
Week 6	Caries in enamel: morphological & histological features	From Ref #1
Week 7	Caries in dentine & its effect on Pulp	From Ref #1
Week 8	Midterm Exam 50%	
Week 9	Role of saliva in carious process	From Ref #1
Week 10	Diet, nutrition, and dental caries	From Ref #1
Week 11	Sugar substitutes	From Ref #1
Week 12	Diagnosis of dental caries & its relevance to management Modifying the carious process	From Ref #1 , From Ref #2
Week 13	Epidemiology of dental caries	From Ref #1
Week 14	Root Caries	From Ref #1
Week 15	Revision	
Week 16	Final Exam	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify dental caries including etiological and modifying factors, classifications of dental caries, and main cariogenic microorganisms. [15PLO 1, 15PLO 2] [15L7K1, 15L7S3]	30%	
Explain the morphological and histological features of carious process in enamel and dentine and its effects on pulp. [10PLO 1, 10PLO 2] [10L7K1, 10L7S1]	20%	

Discuss role of saliva and diet in dental caries and use of sugar substitutes to prevent dental caries. [10PLO 2, 10PLO 5, 5PLO 6] [15L7K1, 10L7S1]	25%	
Identify methods used to diagnose carious lesions including the modern clinical and radiographic tests of dental caries [5PLO 1, 5PLO 4] [5L7K1, 5L7S2]	10%	
Discuss epidemiology of dental caries and factors that affect on the distribution of dental caries among population. [15PLO 6] [10L7K1, 5L7S3]	15%	

Relationship to Program Student Outcomes (Out of 100%)									
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
30	35		5	10	20				

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7S3
55	20	5	20

Evaluation	
Assessment Tool	Weight
Mid Exam	50%
Final Exam	50%

Policy	
Exams	Students are required to sit for the 2 semester examinations (Mid and final)
Cheating	Cheating the commitment of the Acts of Cheating and deceit such as copying during examinations is dishonest and will not be tolerated; JUST policy will be applied.
Attendance	Student attendance and responsibility: students are required to attend all the lectures. For excused absences, i.e., illness or emergency, student must contact the course coordinator immediately. In case of illness, student must submit a formal written excuse from the physician. Otherwise, the absence will be considered unexcused. JUST policy will be applied regarding absences.
Feedback	Concerns or complaints should be expressed in the first instance to the course instructor. 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. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail to the following address saobeidat@just.edu.jo

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