

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
Second Semester 2016-2017

Course Information	
Course Title	Cariology
Course Number	ADS 226
Prerequisites	-
Course Website	-
Instructor	Suhair R. Obeidat BSc ADS, MSDH
Office Location	Faculty of Applied Medical Sciences (Old Library Building), 2 nd floor
Office Phone	02/ 7201000 ext. (26925)
Office Hours	Sundays, Wednesdays 12:30-1:30 pm
Course Time & Location	Tuesdays 12:30 - 1:30, N4 206
E-mail	saobeidat@just.edu.jo
Teaching Assistant	-
Course Description	
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	

Text Book	
Title	Essentials of dental caries
Author(s)	Edwina A.M. Kidd and Sally Joyston-Bechal
Publisher	Oxford University Press
Year	1997
Edition	2 nd
Book Website	-
References	<ol style="list-style-type: none"> 1. Diagnosis and risk prediction of dental caries. Per Axelsson, 2000, Quintessence Books 2. Dentistry, dental practice and the community. Brian Burt and Steven Eklund. 5th edition, 1999, Saunders Company 3. Understanding dental caries Part 1 – Etiology and mechanisms, basic and clinical aspects. Gordon Nikiforuk, 1985. Karger Company 4. Understanding dental caries Part 2 – Prevention, basic and clinical aspects. Gordon Nikiforuk, 1985. Karger Company 5. Handouts distributed throughout the course

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	Week 6 (Date and place TBA)	20%
Mid Exam	Week 10 (4.4.17)	40%
Final Exam	Week 15	40%
Assignments	-	-

Course Objectives	Weights
1. Describe the carious process, its main etiologic, predisposing, and modifying factors contribute to this process	10%
2. Discuss epidemiology of dental caries and how to quantify caries activity	10%
3. Determine dental caries distribution among nations, its prevalence and incidence in many parts of the world	10%
4. Explain the morphological and histological features of carious process	5%
5. Discuss the microbiology of dental caries including role of plaque and oral environment in the carious process	10%
6. Identify specific cariogenic microflora that causes dental caries	10%
7. Identify role of saliva in the carious process including composition of saliva and its properties and its role as a modifying factor in dental caries	5%
8. Discuss some related systemic diseases that affect salivary flow rate	5%
9. Explain the clinical features of dental caries and the various classifications of dental caries	10%
10. Identify methods used to diagnose carious lesions including the modern clinical and radiographic tests of dental caries	5%
11. Indicate role of diet in dental caries, especially sucrose	10%
12. Identify cariogenicity of various substances and educate public about that	5%
13. Assess the risk behavioral and socioeconomic factors play in dental caries process development	5%

Teaching & Learning Methods
lectures, slides show, class discussion, and handouts distributed by the instructor

Related Objective(s)	Learning Outcomes
1, 5	Define dental caries correctly
1, 5, 6	Indicate main etiological factors to dental caries
1, 5	Give examples of predisposing and modifying factors contribute to carious process
2, 3	Mention dental caries prevalence & incidence in countries such as USA & Jordan
5, 6	Indicate name of cariogenic bacteria that cause caries
2, 3	Understand how DMF index is used in epidemiological surveys
7, 8, 9	Discuss anticariogenic function of saliva
7, 8, 9	Provide examples of systemic diseases and medications that cause decreased salivary flow
4, 9, 10	Being able to identify carious lesion when showing slides or dental x-rays
11, 12, 13	Mention examples of cariogenic sugars, drinks, and foods that increase risk to dental caries
2, 3, 13	Discuss how SES contribute to dental caries distribution among the community
2, 3, 13	Identify people with limited access to dental care

Course Content		
Week Tuesdays	Topics	Chapter in Text (handouts) Instructor: Suhair Obeidat
1 31.1.17	- Orientation into the course syllabus	- Course syllabus distribution
2 7.2.17	- Introduction to dental caries	- Handouts
3 14.2.17	- Earlier & current theories of dental caries development	Ch 1, handouts
4 21.2.17	- Classification of dental caries	Ch 3, handouts
5 28.2.17	- Microbiology of dental caries/ Role of plaque and cariogenic microflora	Ch 4, handouts * First exam will be arranged out of 20%
6 7.3.17	- Caries in enamel – morphological & histological features	Ch 6, handouts
7 14.3.17	- Caries in dentine & its effect on the Pulp	Ch 7, handouts
8 21.3.17	- Role of saliva in carious process	Ch 9, handouts
9 28.3.17	- Diet, nutrition and dental caries	Ch 10, handouts
10 4.4.17	**Midterm Exam	Study well
11 11.4.17	- Sugar substitutes	Ch 10, handouts
12 18.4.17	- Diagnosis of dental caries & its relevance to management - Modifying the carious process	Ch 5, handouts
13 25.4.17	- Epidemiology of dental caries	Ch 8, handouts
14 2.5.17	Root Caries Final Practical Exams Week	Handouts
15 9.5.17	Final Theoretical Exams week	

** First Exam will be out of 20%. Date and place TBA*

*** Midterm exam will be out of 40%*

Additional Notes	
Assignments	Students are required to do all the homework assignments given by the instructor
Exams	Students are required to sit for the 3 semester examinations (1 st , 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.
Participation	-
Projects	-
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 sabeidat@just.edu.jo