

1	Course title	Preventive Dentistry Theory '1'
2	Course number	1303483
3	Credit hours (theory, practical)	1 credit hour
	Contact hours (theory, practical)	1 hour
4	Prerequisites/corequisites	NA
5	Program title	DDS in Dentistry
6	Program code	NA
7	Awarding institution	The University of Jordan
8	School	School of Dentistry
9	Department	Pediatric Dentistry and Orthodontics
10	Level of course	Fourth year
11	Year of study and semester (s)	Fourth year. 2 <sup>nd</sup> semester
12	Final Qualification	DDS
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Date of production/revision	6/1/2020

#### 16. Course Coordinator:

Dr. Hawazen Sonbol  
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#### 17. Other instructors:

Dr. Rawan Elkarmi: [r.elkarmi@ju.edu.jo](mailto:r.elkarmi@ju.edu.jo)  
Dr. Ahmad Jafari: [ahmad.jafari@ju.edu.jo](mailto:ahmad.jafari@ju.edu.jo)

#### 18. Course Description:

This course focuses on the etiology and prevention of dental caries. Prevention of dental caries is discussed including fluoride mechanism of action and modalities of fluoride available emphasizing an evidence based approach. New technologies used in the early detection of dental caries and biological management of the disease are discussed. Caries risk assessment methods are also discussed.

**19. Course aims and outcomes:****A- Aims:**

This course aims to provide an understanding of the aetiology of caries development and basic mechanism for prevention and evidence based analysis of the preventive techniques available.

**B- Intended Learning Outcomes (ILOs):**

Upon successful completion of this course students will be able to

- 1) Understand the classification of preventive dentistry according to the level of prevention into primary prevention, secondary prevention, tertiary prevention.
- 2) Understand the aetiology of dental caries
- 3) Understand the relationship between diet, nutrition and dental caries including cariogenic food, consumption of sugars, cariogenicity of different sugars and cleansing and protective food.
- 4) Understand the methods of prevention of dental caries using diet control and sugars substitutes.
- 5) Understanding the methods of prevention dental caries using fluoride using fluoridation of drinking water, dietary fluoride supplements, professionally and self applied fluoride, fluoride mouthrinse, fluoridated toothpastes, and other forms of fluoride.
- 6) Understand fissure sealants and indications of use and technique.
- 7) Understand the concept of caries risk assessment and diet advise in the dental clinic
- 8) The different methods of caries diagnosis and their sensitivity are discussed.

**20. Topic Outline and Schedule:**

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to preventive dentistry	1	H. Sonbol	1	22(1,2)	25(A,B)
Aetiology of dental caries.	2	H. Sonbol	1,2	22(1,2)	25(A,B)
Diet, Nutrition and Dental Caries	3	H. Sonbol	3	22(1,2)	25(A,B)
Prevention of dental caries – Diet control and NMES and sugar substitutes	4	H. sonbol	3	22(1,2)	25(A,B)

Prevention by Fluoride – Mechanism of Action, water fluoridation and supplements	5	A. Jaafari	4, 5	22(1,2)	25(A,B)
Fluoride toothpaste and mouthrinses	6	A. Jaafari	7	22(2)	25(A,B)
Fluoride – Professionally Applied fluorides	7	A. Jaafari	8	22(2)	25(A,B)
Fluoride toxicity and fluorosis	8	A. Jaafari	9,10,11	22(2)	25(A,B)
Fissure sealants	9, 10	R. Elkarmi	12	22(2)	25(A,B)
Clinical Aspects, Caries Diagnosis	11, 12	H. Sonbol	13	22(2)	25(A,B)
Review	13	A.Jaafarai	1-13	22(2)	25(A,B)

## 21. Teaching Methods and Assignments:

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

Lectures: Fourteen 1 hour lectures.

Moodle: e-learning through lecture notes and discussions.

## 22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1. Midterm exam: 40 points. (MCQs or essays)
2. Final Exam: 60 points. (MCQs or essays)

### 23. Course Policies:

#### **A- Attendance policies:**

Lecture attendance is obligatory. The hand-out and recommended textbook are not comprehensive and additional material will be covered in lectures. You are responsible for all material covered in lectures. Students are not allowed to enter lecture room after 5 minutes of its start. Marks are not awarded for attendance. Students are not allowed to attend final exam if they exceed the permitted percentage of absences set in the UJ's regulations.

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

The student will be allowed to sit 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:**

No special recommendations.

#### **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.

#### **E- Grading policy:**

Percentage marks are converted to letters.

#### **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. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

### 24. Required equipment: ( Facilities, Tools, Labs, Training....)

None special

## 25. References:

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

1. Paediatric Dentistry. Richard R. Welbury, Oxford, Edt. 4<sup>th</sup> edition. 2012.

B- Recommended books, materials, and media:

2. Handbook of Pediatric Dentistry. Angus C. Cameron and Richard P. Widmer. Mosby. 3rd edition, 2008.
3. Dentistry for the child and adolescent. Ralph E. McDonald, David R. Avery. St. Louis, Toronto, London. C.V. Company.9<sup>th</sup> edition. 2010.
4. Guidelines of the American Academy of Pediatric Dentistry  
Guidelines of the European academy of Pediatric Dentistry

## 26. Additional information:

Expected workload:

On average, you should expect to spend between 2 and 3 hours per week on this course.

Name of Course Coordinator: **Dr. Hawazen Sonbol** Signature: ----- Date: **20/1/2017**

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

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

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

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