Jordan University of Science and Technology
Faculty of Dentistry
Dental Surgery Department

DENT411 Oral Epidemiology - JNQF Level: 7
First Semester 2024-2025

Course Catalog
1 Credit Hours. This course is designed to provide students with current knowledge of using and applying epidemiology in dental practice. The topics include introduction to epidemiology, principles of epidemiological research designs, methodological considerations, and measurement and quantification of oral diseases with emphasis on dental caries and periodontal diseases. This topics will expand further to cover the distribution of oral diseases in the community.
Teaching Method: Electronic Course

Text Book	
Title	Dentistry, Dental Practice and the Community
Author(s)	Burt BA, Eklund SE
Edition	6th Edition
Short Name	Dentistry, Dental Practice and the Community
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Oral Epidemiology A Textbook on Oral Health Conditions, Research Topics and Methods	Marco A. Peres, Jose Leopoldo Ferreira Antunes, Richard G. Watt (Editors)	2nd Edition	

Instructor	
Name	**Dr. Duaa Almegbil**
Office Location	-
Office Hours	
Email	dtalmegbil@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 18:00 - 19:00 Room: متزامن الحضور منصة الكترونية

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introduction to course	
Weeks 2, 3	Introduction to epidemiology, principles of epidemiological research designs and methodological considerations	From **Dentistry, Dental Practice and the Community**
Week 4	Methods of Measuring Oral Diseases - general principles	From **Dentistry, Dental Practice and the Community**
Week 5	Methods of Measuring Dental Caries	From **Dentistry, Dental Practice and the Community**
Week 6	Methods of Measuring Periodontal Diseases	From **Dentistry, Dental Practice and the Community**
Week 7	Methods of Measuring Dental Fluorosis	**lecture and excercises** From **Dentistry, Dental Practice and the Community**
Week 8	Midterm exam	
Week 9	Methods of Measuring Other Oral Conditions	From **Dentistry, Dental Practice and the Community**
Week 10	Distribution of dental caries	From **Dentistry, Dental Practice and the Community**
Week 11	Distribution of periodontal disease	From **Dentistry, Dental Practice and the Community**
Week 12	Distribution of oral cancer	**plus excercise** From **Dentistry, Dental Practice and the Community**
Week 13	Epidemiology of oral cancer	From **Dentistry, Dental Practice and the Community**
Week 14	Evidence-based dentistry	From **Dentistry, Dental Practice and the Community**

Week 15	Revision and final examination	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recognize the importance and relevance of epidemiology to dental practice [51.7 Scientific Knowledge and Cognitive Skills] [1L7K1]	5%	
Identify different epidemiological research designs and their relevance and application to dental practice [44.1 Critical Thinking, Problem Solving and Evidence-Based Practice] [1L7K1]	4%	
Describe the methodological considerations in oral epidemiology [94.1 Critical Thinking, Problem Solving and Evidence-Based Practice] [1L7K1]	9%	
Recognize the methods and indexes used for measuring oral disease and their clinical applications, with emphasis on dental caries, periodontal disease, oral cancer and fluorosis [361.1 Scientific Knowledge and Cognitive Skills] [1L7K1]	36%	
Recognize the distribution of oral disease (focusing on tooth loss, dental caries, periodontal disease, oral cancer) in the local and global communities and its impact on dental practice with identifying corresponding modifiable and non-modifiable risk factors [365.1 Health Promotion and Community Oral Health] [1L7K1]	36%	
Recognize how research-based evidence informs dental practice with appraising the procedures used in obtaining evidence in dentistry [104.1 Critical Thinking, Problem Solving and Evidence-Based Practice] [1L7K1]	10%	

											Relationship to Program Student Outcomes (Out of 100%)		
1.1 Scientific Knowledge and Cognitive Skills	1.2 Scientific Knowledge and Cognitive Skills	1.3 Scientific Knowlege and Cognitive Skills	1.4 Scientific Knowledge and Cognitive Skills	1.5 Scientific Knowledge and Cognitive Skills	1.6 Scientific Knowledge and Cognitive Skills	1.7 Scientific Knowledge and Cognitive Skills	2.1 Person Centered Care	2.2 Person Centered Care	2.3 Person Centered Care	2.4 Person Centered Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communication Professionalism and Ethics
36						5							

Relationship to NQF Outcomes (Out of 100%)
L7K1
100

Evaluation	
Assessment Tool	**Weight**
Midterm	40%
Final	60%

Policy	
Course Policy	Exams: All exams are closed books and notes. The final exam is comprehensive (covers all the material).
	Cheating: Cheating is prohibited, and in case of cheating the student will be subject to disciplinary actions based on JUST bylaws and regulations.
	Attendance: Attendance is mandatory and student is expected to attend at least 90% of classes
	Participation: No grades for participation
	Laboratory: Purely theoretical course and no laboratory component.

Date Printed: 2024-10-13