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

DENT250 Oral Radiology I - JNQF Level: 6

Second Semester 2022-2023

Course Catalog
1 Credit Hours. The aim of this course is to teach students about basic principles of X-ray generation, and the different radiological devices used in the dental clinic. In addition, the course is designed to provide the students with the knowledge of the principles and practice of extra-oral and intraoral radiography.

Text Book	
Title	Dental Radiography: Principles and Techniques
Author(s)	Joen Iannucci DDS MS , Laura Jansen Howerton RDH MS
Edition	5th Edition
Short Name	Ref.1
Other Information	Book Website: http://evolve.elsevier.com/Haring/dentalradiography

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref.2	Oral radiology, Principles and interpretation	White and Pharoah's	8th Edition	
Ref.3	Kodak publications	Kodak	3rd Edition	available at e-Learning course website

Instructor	
Name	**Prof. Abdalla Al Dib**
Office Location	259
Office Hours	
Email	hazza@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 18:30 - 19:30 Room: U

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Radiation history	
Week 2	Radiation physics 1	
Week 3	Radiation physics 2	
Week 4	Radiation Chararchteristics	
Week 5	Radiation biology	
Week 6	Radiation protection	
Week 7	Production of the radiograph 1	
Week 8	Production of the radiograph 2	
Week 9	Image characteristics	
Week 10	Quality assurance and infection control	
Week 11	Periapical techniques	
Week 12	Bitewing and Occlusal techniques	
Week 13	Radiographic errors	
Week 14	Panoramic radiography	
Week 15	Extraoral radiography	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method

1.1 To set up different imaging modalities [151.4 Scientific Knowledge and Cognitive Skills] [1L6K1]	15%	
1.2 To introduce and illustrate basic principles of x-ray generation [151.3 Scientific Knowledge and Cognitive Skills] [1L6K1]	15%	
1.3 To solve problems related to production of radiographs [151.3 Scientific Knowledge and Cognitive Skills] [1L6K2]	15%	
1.4 To interpret errors seen on radiographs [151.7 Scientific Knowledge and Cognitive Skills] [1L6K1]	15%	
1.5 To learn how to take and process good radiographs [201.3 Scientific Knowledge and Cognitive Skills] [1L6K1]	20%	
1.6 To study different types of imaging [201.3 Scientific Knowledge and Cognitive Skills] [1L6K1]	20%	

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 Knowledge 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-Centred Care	2.2 Person-Centred Care	2.3 Person-Centred Care	2.4 Person-Centred Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communication, Professionalism and Ethics	
		70	15			15								

Relationship to NQF Outcomes (Out of 100%)	
L6K1	L6K2
85	15

Policy	
Teaching, Assessment Methods and Grades Mapping to University Grading System (semester and final grades)	SEMESTER GRADE 40% Examination type: Online MCQs FINAL GRADE 60% Examination type: Online MCQs

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