

**The University of Jordan
Faculty of Dentistry
Department of Paediatric Dentistry & Orthodontic
Year 2014/2015**

Course Title: Oral and maxillofacial Radiology

Course Code: 1303777

Semester: Second

Prerequisite: none

Course Coordinator: Abeer AlHadidi

Instructors: Abeer AlHadidi

Name	e-mail	Office Hours
<u>Abeer AlHadidi</u>	<u>A_hadidi@ju.edu.jo</u>	<u>Tuesday and Wednesday 12:00-2:00</u>

Course overview:

This course consists of a series of modules addressing 1) fundamentals of the production and interaction of x rays, 2) basics of radiation biology and radiation protection, 3) principles of different intraoral, extraoral, and advanced radiographic techniques, 4) and a review of all categories of head and neck pathologies with an emphasis on advanced imaging examples. An introduction to the principles of computerized tomography (CT) and of magnetic resonance imaging (MRI) of the head and neck will be included throughout the course.

Intended Learning Outcomes:

With the successful completion of this course, the students should be able to:

- Develop a working understanding of the fundamentals of the production and interaction of x rays and the basics of radiation biology and radiation protection,
- Recognize normal radiographic appearance of oral and maxillofacial structures.
- Recognize the normal variations of anatomical structures.
- Recognize the presence of any radiographic abnormality.
- Describe the radiographic appearance of different lesions on routine radiographs.
- Have a fair ability to deal with alternative and specialized imaging modalities.

- Formulate a list of differential diagnoses for any lesion based on its radiographic appearance.
- Reach the most probable diagnosis of a lesion based on its radiographic appearance and clinical presentation.
- Link the radiographic appearance of different lesions to their pathogenesis.
- Link the radiographic appearance of different lesions to their clinical presentation.

Teaching methods

Seminars and case discussion sessions

Methods of Evaluation

Midterm and a final written exams

Course Contents & Weights

Session	Title	Instructor
1	Maxillofacial Imaging and Anatomy: Developing a Differential Diagnosis: Interpretation of Radiographic Signs	AlHadidi
2	Fundamentals of the production and interaction of x rays	AlHadidi
3	Basics of radiation biology and radiation protection Fundamentals of CBCT imaging	AlHadidi
4	Panoramic, Cephalometric, and skull imaging. Basics of digital imaging	AlHadidi
5	Radiographic Signs of Developmental Disturbances <i><u>Anatomy, Dental Anomalies, and Localization CRC-Seminar</u></i>	AlHadidi
6	Radiographic Signs of Systemic and Metabolic Disease Radiographic Signs of Fibro-osseous Conditions and Diseases of Bone in the Jaws	AlHadidi

7	<u>Systemic, Metabolic, and Fibro-Osseous Conditions and Diseases of Bone in the Jaws CRC-Seminar</u> Radiographic Signs of Trauma	AlHadidi
8	Radiographic Signs of Inflammation <u>Trauma/inflammation CRC-Seminar</u>	AlHadidi
9	Radiographic Signs of Cysts	AlHadidi
10	Radiographic Signs of Benign Tumors <u>Cysts and Benign Tumors CRC-Seminar</u>	AlHadidi
11	Radiographic Signs of Malignant Disease <u>Malignant Lesions CRC-Seminar</u>	AlHadidi
12	<u>Unknowns-CRC-Seminar</u>	AlHadidi
13	<u>Specialty oriented seminar</u>	AlHadidi
14	<u>Specialty oriented seminars</u>	AlHadidi

References & Reading Materials

White, S. and Pharaoh, M. Oral Radiology: Principles and Interpretation. 6th edition, 2009. Mosby.