



CORK UNIVERSITY DENTAL SCHOOL & HOSPITAL

DENTAL RADIOGRAPHY COURSE FOR DENTAL NURSES AND DENTAL HYGIENISTS

COURSE OUTLINE

COURSE OVERVIEW

At the end of this course, students should be competent in dental radiographic technique for use in dental practice in Ireland. The theoretical component of the course will be delivered at the Cork Dental Hospital. The basics of radiographic technique will initially be delivered in University Dental School and Hospital and subsequently supervised by a dentist in practice. A record of all radiographic examinations conducted in practice will be recorded in a log book. Students will be assessed at various stages throughout and at the end of the course. Upon successful completion of the course, Dental Nurses **must** register with the Dental Council if they wish to conduct radiographic examinations in practice.

COURSE OBJECTIVES

This course will be delivered whereby the students attend lectures at the Dental School and it is hoped that some material will be delivered online. Practical radiography sessions, radiographic technique and image processing will be done the dental Hospital and continued in dental practice. Students will be encouraged to ask questions of the instructors on the course. The primary objective of the course is that upon successful completion dental nurses and hygienists should be competent to undertake dental radiography to a standard required for general practice in Ireland.

COURSE CONTENT

The course consists of 12 modules and are available online and presented by lecturers from the X ray Dept., Cork University Dental School and Hospital. Real X-ray images and video clips are used to further your understanding of the topics.

A logbook must be kept by the students to record their clinical experience of taking dental radiographs. This logbook must include the number and types of radiographs taken, the quality rating and identification of any film faults. A minimum quota for the number of views taken, as follows:

25 PANORAMIC VIEWS

25 INTRAORAL VIEWS

The techniques for various views include:

- Occlusal views
- Bitewing
- Panoramic
- Periapicals

The course will run on a Monday night from 7.00 to 8.30pm. There are a maximum of 7 nights to attend for Lectures.

Students will have to attend on one Saturday morning for a practical session and One Saturday morning for the final examination.

There will also be a practical exam and students will have to attend during a weekday in order to sit the practical component.

ENTRY REQUIREMENT

To enter the Cork University Dental School & Hospital Certificate in Dental Radiography and to enrol on the course, you must be a current student of a recognized dental nurse course or hold a recognized qualification in Dental Nursing or Dental Hygiene.

You will need **regular broadband access to the internet** using a **computer with sound** (either using headphones or speakers). A current **email address** is also required. Finally, you will need

Access to licensed **radiographic equipment** and the **signed support of your dental**

Practitioner who is willing to supervise you whilst you take radiographs for your logbook.

Dental practitioners are asked to make local arrangements to facilitate students obtaining practical experience in techniques not available in the dental surgeries.

RECOMMENDED READING MATERIAL

Textbook: 'Radiography & Radiology for Dental Nurses' by Eric Whaites. Churchill

Livingstone

FEES

€975.00 per student

CONTACT US

Dr Caitriona Ahern

X Ray Department

Cork University Dental School & Hospital

Wilton

Cork

Telephone: 021 4901175

E-mail: caitriona.ahern@ucc.ie

PROGRAMME SCHEDULE

WEEK

1	Introduction to Programme Basic and Radiation Physics <ul style="list-style-type: none">• Concepts of Radiation and Atomic Structure• X-ray Production (online)
2	Basic and Radiation Physics <ul style="list-style-type: none">• Interaction with Tissue and Bioeffects of Radiation Radiation Protection X-ray Equipment <ul style="list-style-type: none">• General X-ray tubes
3	X-ray Equipment • Dental X-ray tubes Exposure Factors <ul style="list-style-type: none">• Basic and Advanced Concepts Radiographic Technique <ul style="list-style-type: none">• Indications and Considerations
4	Radiographic Technique <ul style="list-style-type: none">• Principles of Dental Technique<ul style="list-style-type: none">◦ Paralleling / Bisected Angle ◦• Bitewing X-ray Equipment <ul style="list-style-type: none">• Specialised X-ray tubes

5	<p>Radiographic Technique • Principles of Dental Technique ○ Occlusal ○ OPG</p> <p>Exposure Factors • Image Quality Criteria</p>
6	<p>Image Receptors</p> <ul style="list-style-type: none"> • Image Production and Film • Screens and Cassettes • Digital image Production ○ Receptors <ul style="list-style-type: none"> ○ Acquisition and imaging chain
7	<p>Processing</p> <ul style="list-style-type: none"> • Film Processing: Principles and Practice • Chemical Hazards • Film Faults • Digital Processing • Digital Hardcopy
8	<p>Legislation and Dosimetry</p> <ul style="list-style-type: none"> • Legislation • Dosimetry <p>Quality Assurance</p> <ul style="list-style-type: none"> • Equipment
9	<p>Quality Assurance</p> <ul style="list-style-type: none"> • Photographic • Digital • Clinical Audit
10	<p>Radiographic Technique</p> <ul style="list-style-type: none"> • Radiographic Anatomy • Radiographic Image Appraisal / Critique

11	Logbook completion
12	Logbook completion
13	Logbook Completion
14	Logbook Completion
15	Logbook Completion
16	<i>On completion of logbook - Competency Assessment (attendance at Cork University Dental School & Hospital - compulsory)</i>
17	Exit Assessment



CORK UNIVERSITY DENTAL SCHOOL & HOSPITAL

Letter of Support from Supervising dentist

TO UNDERTAKE THE INTRAORAL AND PANORAMIC RADIOGRAPHY COURSE FOR DENTAL NURSES AND DENTAL HYGIENISTS

I agree to the following conditions:

- I will supervise the dental nurse in radiographic technique and I will sign the radiographic logbook relating to images made by the student
- The practice has and will use image holders/positioning devices on all patients for bitewing and periapical images
- I have or have access to a panoramic machine

<i>Name:</i>	<i>Practice Address:</i>
<i>Daytime Telephone Number:</i>	<i>E-mail address:</i>
<i>Signature:</i>	<i>Date:</i>

I attach a copy of the license to use x-ray machines from the EPA