

الخطة الدراسية

كلية طب الاسنان / جامعة الكفيل / العام الدراسي 2020 – 2021

الثالثة	<u>المرحلة الدراسية:</u>
طب الاسنان	<u>التخصص:</u>
اشعة الفم	<u>اسم المادة الدراسية باللغة العربية:</u>
Oral radiology	<u>اسم المادة الدراسية باللغة الإنجليزية:</u>
الهدف من البرنامج هو تاهيل اطباء اسنان قادرين عل قراءة وتشخيص الصور الشعاعية وكيفية العمل على اجهزة الاشعة بالشكل الصحيح وكيفية التعامل مع مخاطر الاشعاع.	<u>اهداف المادة:</u>
الخصائص العامة للأشعة السينية وأنواع الأجهزة المستخدمة العامة والحديثة ، الخطوات المتبعة في التصوير بالأشعة سواء داخل الفم أو خارجه ، تحميص أفلام الأشعة ، الأشعة السينية وتطبيقاتها وتأثيراتها على الكائنات الحية وطرق الوقاية من أضرارها.	<u>وصف المادة:</u>
30	<u>عدد الساعات النظرية:</u>
60	<u>عدد الساعات العملية:</u>
4	<u>عدد الوحدات:</u>
وهاب رزاق جاسم الركابي	<u>اسم التدريسي باللغة العربية:</u>
Wahhab razaq gassim al-rikaby	<u>اسم التدريسي باللغة الإنجليزية:</u>
مدرس مساعد	<u>اللقب العلمي:</u>
<a href="mailto:Wahhab.razzaq@alkafeel.edu.iq">Wahhab.razzaq@alkafeel.edu.iq</a>	<u>عنوان البريد الالكتروني الجامعي:</u>
07816401877	<u>رقم الهاتف الجوال (WhatsApp):</u>

Week	Syllabus
1	Introduction, outline of the course, history of dental radiation, x-radiation properties, radioactivity, uses of x-radiation. The cathodes, anode, target, focal area, size into x-radiation.
2	Introduction, outline of the course, history of dental radiation, x-radiation properties, radioactivity, uses of x-radiation. The cathodes, anode, target, focal area, size into x-radiation.
3	The x-ray beam, position and shape, inverse square law, rectification, x-ray spectrum, filtration and collimation. Unmodified scattering, modified scattering Compton effect, Characteristic radiation. Half, value layer For measurement, lionization chambers. Film. Dosimeter, chemical the thermoluminescent.
4	The x-ray beam, position and shape, inverse square law, rectification, x-ray spectrum, filtration and collimation. Unmodified scattering, modified scattering Compton effect, Characteristic radiation. Half, value layer For measurement, lionization chambers. Film. Dosimeter, chemical the thermoluminescent.
5	Dental x-ray films, intra oral films, construction, size and speed, extra oral films, screen and non-screen, chemistry of screens, speed cassettes, size.
6	Film properties, density, contrast, detail or definition.
7	Latent image and film processing, latent image formation. Developing, fixing, manual and automatic processing, developer, fixer.
8	The darkroom, size and location, construction and design, equipment, safe light, testing for safe light (coin test), film identification, intraoral and extraoral films, film and equipment storage.
9	The radiograph, radiograph quality, principles of shadow, casting, artifacts due to exposure, processing, fog and rough handling
10	Viewing of the radiograph, image quality and projection, Geometry, optical illusions, viewing equipment and mounts, viewing technique.

11	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures, distance and kilovoltage, lined cylinders and protective aprons.
12	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures, distance and kilovoltage, lined cylinders and protective aprons.
13	Protection for the operator, position, distance, barriers, radiation protection for associated person, regulatory measurements, monitoring procedures.
14	Hazards, effects of radiation on living tissue, ionization, direct and indirect effects, tissue variability, whole body radiation, specific area radiation, individual variability, latent period, radiation of genetic tissues, effects on somatic tissues.
15	Hazards, effects of radiation on living tissue, ionization, direct and indirect effects, tissue variability, whole body radiation, specific area radiation, individual variability, latent period, radiation of genetic tissues, effects on somatic tissues.
16	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placement and angulation procedures using the paralleling technique, horizontal and vertical angulation.
17	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placement and angulation procedures using the paralleling technique, horizontal and vertical angulation.

18	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting techniques.
19	Film placement and angulation procedure using bite- wing films, alternative film holding devices.
20	Film placement and angulation produces using occlusal film to radiograph occlusal, view-cross-occlusal view.
21	Panoramic radiography.
22	Panoramic radiography.
23	Extra oral radiography (essential).
24	Extra oral radiography (specialized).
25	Normal radiographic anatomical landmarks.
26	Common diseases of teeth and surrounding tissues.
27	Digital radiography: a- Physical principles. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.
28	Computerized Tomography (CT)
29	Magnetic Resonance Imaging(MRI)
30	CBCT

المنهج المقرر / الجزء العملي:

Week	Syllabus
1	Dental x-ray films, intra oral films, construction, size and speed, extra oral films, screen and non-screen, chemistry of screens, speed cassettes, size.
2	Film properties, density, contrast, detail or definition.
3	Latent image and film processing, latent image formation.

	Developing, fixing, manual and automatic processing, developer, fixer.
4	The radiograph, radiograph quality, principles of shadow, casting, artifacts due to exposure, processing, fog and rough handling
5	X-radiation protection, protection of the patient, film speed, collimation, filtration, and developing techniques, film placement and angulation procedures, distance and kilovoltage, lined cylinders and protective aprons.
6	Intra oral radiographic technique, bisecting and paralleling techniques, theory of the paralleling technique, theory of the bisecting technique compared, position of patient, film placement and angulation procedures using the paralleling technique, horizontal and vertical angulation.
7	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting
8	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting
9	Film placement and angulation procedure using bite- wing films, alternative film holding devices.
10	Panoramic radiography.
11	Normal radiographic anatomical landmarks.
12	Normal radiographic anatomical landmarks.
13	Common diseases of teeth and surrounding tissues.
14	Computerized Tomography (CT)
15	Cone beam Computerized Tomography CBCT

المصادر:

المراجع الرئيسية:

[1] Oral Radiology Principles And Interpretation Stuart C.White Michael J.Pharaoh Sixth Edition

[2]A Short Text Book Of Oral Radiology 2018 White Michael J.Pharoah Sixth Edition

[3]Cone Beam Computed Tomography Pietro Caruso .Enzo Silvestri Luca Maria Sconfienza 2014

المراجع المساعدة:

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[2]

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