

8. Radiology:

No.	(Radiology)	Hours
	Subjects	
1.	Introduction, outline of the course, history of dental radiation, x-radiation properties.	2
2.	The x-ray beam, filtration and collimation.tissue absorption.	2
3.	Dental x-ray films, intra oral films, extra oral films, screen and non-screen.	1
4.	Film properties, density, contrast, detail or definition.	1
5.	Latent image and film processing, fixing, manual and automatic processing.	1
6.	The darkroom, size and location, safe light,film and equipment storage.	1
7.	The radiograph, radiograph quality, principles of shadow, casting,artifacts.	1
8.	Viewing of the radiograph, image quality and projection,optical illusions.	1
9.	X-radiation protection, protection of the patient.	2
10.	Protection for the operator.	1
11.	Hazards, radiation effect on living tissue, ionization,direct and indirect effects.	2
12.	Intra oral radiographic technique, bisecting and paralleling techniques	2
13.	Film placement and procedures using the bisecting technique compromise procedures combining paralleling and bisecting techniques.	1
14.	Film placement and angulation procedure using bite- wing films.	1
15.	Film placement and angulation produces using occlusal film .	1
16.	Panoramic radiography.	2
17.	Extra oral radiography (essential).	1
18.	Extra oral radiography (specialized).	1
19.	Normal radiographic anatomical landmarks.	1
20.	Common diseases of teeth and surrounding tissues.	1
21.	Digital radiography: a- Physical principles. b- Clinical applications. c- Advantages and disadvantages. d- Radiographic interpretation.	1