

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Oral Radiology Lab
Course number	DENT4104
Faculty	
Department	
Course type	College Needs
Course level	4
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - understand the different techniques of intraoral radiography
2 - realize the importance of radiograph in the diagnosis of different intraoral pathosis
3 - understand the modern devices used in oral radiology
4 - have a good ability in imaging using periapical device
5 - be familiar with panoramic x-ray

Intended Learning Outcomes

Knowledge and Understanding	* understand the modern devices used in oral radiology
	* understand the different techniques of intraoral radiography
Intellectual Skills	* realize the importance of radiograph in the diagnosis of different intraoral pathosis
Professional Skills	* have a good ability in imaging using periapical device
	* be familiar with panoramic x-ray
General Skill	* improve the students ability to analyse data
	* improve the students ability to link information
	* improve the students ability to deal with problems

Course Contents

1 - Introduction to techniques of oral radiography
2 - Intraoral techniques Object Localization Techniques
3 - Digital Vs, Conventional Radiology Advanced imagiology
4 - Processing technique
5 - Errors
6 - Radiographic Interpretation of Dental Anomalies
7 - Radiographic Interpretation : Carious Lesions ,Periodontal Diseases, pulpal and periapical Diseases, Dental Anomalies, Assessment of Jaw and Teeth Fractures
8 - Panoramic case presentation

Teaching and Learning Methods

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| 1 - powerpoint slides
2 - demonstration
3 - educative videos |
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Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
semester requirements	14th week	20
mid- term exam	7th week	30
final exam	14th week	50

Books and References

Course note	Oral Radiology	2009	Stuart C. White Elsevier
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Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Introduction to techniques of oral radiography	1st week	understand the different techniques of oral radiography understand the components and mechanism of action of panoramic x-ray and periapical x-ray	realize the importance of these techniques in diagnosis and treatment plan	identify the different components of the panoramic x-ray and periapical x-ray devices	improve the students ability of remembering
Intraoral techniques Object Localization Techniques	2nd week	understand the different techniques including a- periapical b- bitewing c- occlusal understand the usage of each technique and its importance in diagnosis	realize the usage of these techniques in diagnosis and treatment plan realize the different views results from each technique	have a good ability in imaging using these different techniques	improve the students ability of remembering improve the students ability to analyze data improve the students ability to deal with problems
Digital Vs, Conventional Radiology Advanced imagingology practical : Anterior Periapical	3rd week	understand the main differences between Digital and Conventional Radiology Advanced imagingology understand the technique of imaging anterior teeth with periapical x-ray	realize the the mechanism of action of both conventional and digital radiograph	have a good ability in making periapical x-ray for anterior teeth	improve the solving problems ability of the students
Processing technique practical : anterior periapical use the dark room	4th week , 5th week	understand the concepts of processing understand the chemical composition of the fixer and developer	realize the mechanism of processing	have a good ability in using the dark room for processing have a good ability in making periapical x-ray for anterior teeth	improve the students ability to analyze data improve the students ability of remembering

Errors practical : posterior periapical	7th, 8th week	understand the defects of the x-ray image understand the the causes of errors understand the technique used in periapical x-ray for posterior teeth	realize the process of x-ray imaging realize the causes of the defects	have a good ability to judge the quality of the x-ray have a good ability in making periapical x-ray for posterior teeth	improve the students ability to deal with problems
Radiographic Interpretation of Dental Anomalies, Carious Lesions, Periodontal Diseases, pulpal and periapical Diseases, Dental Anomalies, Assessment of Jaw and Teeth Fractures	9th, 10th, 11th week	understand the concepts of diagnosis using radiography understand the radio graphic appearance of different pathosis understand the appearance of jaw fractures in the panoramic x-ray	realize the importance of x-ray in diagnosis realize the different pathosis that can be known using radiology	have a good ability in diagnosis with x-ray	improve the students ability to solve problems improve the students ability in linking information togethr
Panoramic case presentation	13th week	have a clear idea about the panoramic radiograph	realize the differences between the normal and abnormal radiolucencies and radioopacities in the panoramic x-ray	have a good ability in discussing dental cases supported by radiography	improve the students ability to speak to audience improve the students ability in discussion