

Dentistry (English)			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	DENT324		
Course Name:	Fundamentals of Oral & Maxillofacial Radiology		
Semester:	Spring		
Course Credits:	<div>ECTS</div> <div>2</div>		
Language of instruction:	English		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	Compulsory Courses		
Course Level:	<div> <div>Bachelor</div> <div>TR-NQF-HE:6. Master`s Degree</div> <div>QF-EHEA:First Cycle</div> <div>EQF-LLL:6. Master`s Degree</div> </div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Dr. Öğr. Üy. EMİNE NUR KAHRAMAN		
Course Lecturer(s):	Ass. Proff. Emine Nur Kahraman		
Course Assistants:			

Course Objective and Content

Course Objectives:	Throughout this course, students will delve into the field of Oral and Maxillofacial Radiology through a comprehensive curriculum. In the first weeks, they will develop the skills to interpret and analyze radiographic images, focusing on the identification and understanding of benign tumors, neoplasms, diseases affecting bone structure, and malignant neoplasms. Subsequent weeks will cover topics such as assessing bilateral pathologies, understanding ghost images, and interpreting periapical lesions. Students will also explore concepts like impacted teeth, periapical
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	radiopaque pathologies, and hipersementosis, enhancing their understanding of these important aspects of radiology. Later in the course, the focus will shift to more specialized areas, including the interpretation of paranasal sinus diseases, craniofacial anomalies, temporomandibular joint abnormalities, soft tissue calcifications, and ossifications.
Course Content:	Throughout this comprehensive course, students will delve into the realm of Oral and Maxillofacial Radiology. The initial weeks will focus on developing skills in interpreting radiographic images, with an emphasis on identifying and understanding benign tumors, neoplasms, diseases affecting bone structure, and malignant neoplasms. Subsequent weeks will cover topics such as assessing bilateral pathologies, interpreting ghost images, and analyzing periapical lesions. Students will also explore concepts like impacted teeth, periapical radiopaque pathologies, and hipersementosis, deepening their understanding of these crucial aspects of radiology. Later in the course, the focus will shift to more specialized areas, including the interpretation of paranasal sinus diseases, craniofacial anomalies, temporomandibular joint abnormalities, and soft tissue calcifications and ossifications.

Learning Outcomes

The students who have succeeded in this course;

- 1) Develop skills to interpret and analyze radiographic images effectively.
- 2) Enhance the ability to identify and understand benign tumors, neoplasms, and diseases affecting bone structure.
- 3) Gain an understanding of the characteristics and effects of malignant neoplasms.
- 4) Acquire the skill to evaluate bilateral pathologies.
- 5) Comprehend the interpretation and significance of ghost images.
- 6) Improve the capability to interpret and analyze periapical lesions accurately.
- 7) Develop the capacity to identify impacted teeth and periapical radiopaque pathologies.
- 8) Understand the hipersementosis and identify its radiographic features.
- 9) Gain proficiency in interpreting paranasal sinus diseases and craniofacial anomalies.
- 10) Enhance the ability to recognize temporomandibular joint abnormalities and soft tissue calcifications.
- 11) Acquire effective case management skills.

Course Flow Plan

Week	Subject	Related Preparation
1)	Benign Tumors and Neoplasms	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
2)	Diseases Affecting the Structure of Bone	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.

3)	Malignant Neoplasms	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
4)	Assesment of bilatheral pathologies	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
5)	Ghost images	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
6)	Periapical lesions	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
7)	Periapical Radiopaque Pathologies and Hipersementosis	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
8)	examination	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
9)	Paranasal Sinüs Diseases and Craniofacial Anomalies	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
10)	Temporomandibular Joint Abnormalities, Soft Tissue Calcifications and Ossifications	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
11)	Salivary Gland Diseases	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
12)	Case management	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
13)	Case management	White, S. C., & Pharoah, M. J. (2014). Oral radiology-E-Book: Principles and interpretation. Elsevier Health Sciences.

Sources

Course Notes / Textbooks:	MALLYA, Sanjay; LAM, Ernest. White and Pharoah's Oral radiology E-book: principles and interpretation: second South Asia Edition E-Book. Elsevier India, 2019.
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Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	2
2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	2
3)	Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.	
4)	Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	
5)	Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	2
6)	Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.	
7)	Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.	
8)	Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	
9)	By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.	
10)	During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.	
11)	Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.	
12)	In natural disasters and emergency cases, takes the protective measures required by the	

	dentistry profession; performs professional practices that benefit patients and society	
13)	Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.	
14)	Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.	3
15)	Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	1	% 40
Final	1	% 60
total		% 100
PERCENTAGE OF SEMESTER WORK		% 40
PERCENTAGE OF FINAL WORK		% 60
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	14	1	1		28
Midterms	1	4	1		5
Final	1	6	1		7
Total Workload					40