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

Course Introduction and Application Information

Course Code:	UNI290
Course Name:	Chemical, Biological, Radiological and Nuclear (CBRN) Threats and Protection
Semester:	Fall
Course Credits:	ECTS: 5
Language of instruction:	Turkish
Course Condition:	
Does the Course Require Work Experience?:	No
Type of course:	University Elective
Course Level:	Bachelor | TR-NQF-HE:6. Master`s Degree | QF-EHEA:First Cycle | EQF-LLL:6. Master`s Degree
Mode of Delivery:	E-Learning
Course Coordinator:	Öğr. Gör. GÜLCİHAN CÖDEL
Course Lecturer(s):	Lecturer Gulcihan CODEL
Course Assistants:	

Course Objective and Content

Course Objectives:	With this course, it is aimed to provide the student with knowledge about Chemical, Biological, Radiological and Nuclear Threats, to raise awareness and to teach the subjects of protection from these threats.
Course	What are CBRN threats and elements, how to understand and what to do step by step in case.

Content:	

Learning Outcomes

The students who have succeeded in this course;
1) Takes necessary protection measures against CBRN attacks.
2) It identifies warning, alarm signals, and applies the principles of shelter, concealment and blackout when necessary.
3) Identifies chemical threats and takes necessary measures.
4) Knows the effects of biological agents and measures to be taken.

Course Flow Plan

Week	Subject	Related Preparation
1)	History of Chemical Phenomena,	Instructor Lecture Notes
2)	Chemical Threats,	Instructor Lecture Notes
3)	Personal Protection Equipment in CBRN Hazards	Instructor Lecture Notes
4)	Biyolojik Tehlikeler	Instructor Lecture Notes
5)	Radiological Hazards	Instructor Lecture Notes
6)	Nuclear Threats	Instructor Lecture Notes
7)	Midterm	Instructor Lecture Notes
8)	Medical CBRN	Instructor Lecture Notes
9)	Differences between nuclear weapons and conventional weapons	Instructor Lecture Notes
10)	Biological Weapons	Instructor Lecture Notes
11)	Warning alert signs, bunkers	Instructor Lecture Notes
12)	Example Cases of CBRN Incidents in Our Country	Instructor Lecture Notes
13)	General Repetition	Instructor Lecture Notes
14)	Final	Instructor Lecture Notes

Sources

Course Notes / Textbooks:	Öğretim Görevlisi ders notları
References:	Instructor lecture notes

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
Program Outcomes				
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) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.				
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.				
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				

Course Learning Outcomes	1	2	3	4
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.				
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.				

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)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	
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.	
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.	

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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.	
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
Homework Assignments	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	Workload
Course Hours	14	28
Homework Assignments	12	24

Quizzes	13	65
Midterms	1	2
Final	1	2
Total Workload		**121**