

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

Course Introduction and Application Information

Course Code:	UNI353		
Course Name:	Medical Biology Seminars		
Semester:	Spring Fall		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	English		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	University Elective		
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:	E-Learning		
Course Coordinator:	Dr. Öğr. Üy. SÜREYYA BOZKURT		
Course Lecturer(s):	Asst. Prof. Süreyya Bozkurt		
Course Assistants:			

Course Objective and Content

Course Objectives:	The aim of this course is for each student; to have information about the topics of medical biology.
Course Content:	At the end of the course, students will have information about seminar's subjects such as cancer, singal transduction of the cancers, personallized therap.

Learning Outcomes

The students who have succeeded in this course;

- 1) Have information about cancer.
- 2) Learn signal pathways involved in cancer
- 3) Have information about personalized treatment.
- 4) Have knowledge about cancer epigenetics.
- 5) Have knowledge about exosomes.
- 6) Have knowledge about Personalized therapy.
- 7) Have knowledge about Signal Transduction in cancer.
- 8) Microbiota
- 9) Neuroepigenetic
- 10) Immune System

Course Flow Plan

Week	Subject	Related Preparation
1)	Overview of Genom Structure	
2)	General structure and function of the chromosomes	
3)	Cancer	
4)	Cancer Genetic I- Numerical Chromosomal Abnormalities	
5)	Cancer Genetic II- Structural Chromosomal Abnormalities	
6)	Epigenetic and cancer epigenetic	
7)	Exosomes in cancer	
8)	Signal Transduction in cancer-I	
9)	Signal Transduction in cancer-II	
10)	Personalized therapy	
11)	Neuroepigenetic	
12)	Microbiota	
13)	Immune System	

Sources

Course Notes / Textbooks:	Molecular Biology of the Cell
References:	Molecular Biology of the Cell

evidence-based dental knowledge and uses it during his professional practice. Course Learning Outcomes	1	2	3	4	5	6	7	8	9	10
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.										
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.	
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.	
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	2	% 100
total		% 100
PERCENTAGE OF SEMESTER WORK		% 100
PERCENTAGE OF FINAL WORK		%
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	2	0	14	16	60
Study Hours Out of Class	1	4	4	10	18
Presentations / Seminar	1	4	4	10	18
Homework Assignments	1	5	4	10	19
Total Workload					115