

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

Course Introduction and Application Information

Course Code:	DENT211		
Course Name:	Medical Microbiology		
Semester:	Fall		
Course Credits:	<div>ECTS</div> <div>3</div>		
Language of instruction:	English		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	Compulsory Courses		
Course Level:	<div>BachelorTR-NQF-HE:6. Master`sDegreeQF-EHEA:First CycleEQF-LLL:6. Master`sDegree</div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Prof. Dr. İBRAHİM ÇAĞATAY ACUNER		
Course Lecturer(s):	Prof İ Çağatay Acuner, Assist Prof Deniz Sertel Şelale, Assist Prof Ayhan MehAyhan Mehmetoğlu, Deniz Sertel Şelale, İbrahim Çağatay Acuner, Pınar Yurdakul Mesutoğlu		
Course Assistants:			

Course Objective and Content

Course Objectives:	This course aims to provide basic information about medically important bacteria, fungi, viruses and parasites, transmission routes of infectious agents and disease-causing mechanisms, methods of protection from infections, antibiotics and antimicrobial resistance development.

Course	This course includes bacteriology, mycology, virology and parasitology.
Content:	

Learning Outcomes

The students who have succeeded in this course;

- 1) To be able to identify important pathogens that cause disease in humans, to explain the transmission routes and prevention and control methods of infectious diseases.
- 2) Explains the general concepts of the mechanism of action of antibiotics and the development of resistance

Course Flow Plan

Week	Subject	Related Preparation
1)	Gram positive cocci and Gram positive bacilli	-
2)	Gram negative cocci, coccobacilli and Gram negative bacilli	-
3)	Anaerobic bacteria	-
4)	Spirochetes, Mycobacteria and other bacteria	-
5)	Antibiotics	-
6)	Yeast fungi of medical importance	-
7)	Molds of medical importance	-
8)	Midterm exam	-
9)	DNA viruses	-
10)	RNA viruses Laboratory Practice 1: Microbiological examination and culture of bacteria	-
11)	Hepatitis viruses Laboratory Practice 2: Identification of bacteria	-
12)	Protozoa, Laboratory Practice 3: Antimicrobial susceptibility tests	-
13)	Helminths, Laboratory Practice 4: Microbiological diagnosis of fungi	-
14)	An overview, Laboratory Practice 5: Microbiological diagnosis of parasites	-

Sources

Course Notes / Textbooks:	Review of Medical Microbiology and Immunology Medical Microbiology- Murray/Rosenthal/Pfaller-ELSEVIER
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References:	Required Course Materials Lecture slides, Lecture notes, Laboratory manual.
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Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2
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.	3	3
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.	2	2
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.	2	2
5) Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	2	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.	1	2
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
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.	2
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.	2
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.	
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	26	1	1		52

Laboratory	13	0	1		13
Midterms	1	6	1		7
Final	1	10	1		11
Total Workload					83