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

Course Introduction and Application Information

Course Code:	UNI351
Course Name:	Tracking Nobel Prizes
Semester:	Spring Fall
Course Credits:	ECTS: 5
Language of instruction:	English
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:	Dr. Öğr. Üy. AYŞE KÖYLÜ
Course Lecturer(s):	Dr. AYŞE KÖYLÜ
Course Assistants:	

Course Objective and Content

Course Objectives:	With this lecture, students will be aware of the studies carried out not only in their fields but also in other fields such as Physics, Chemistry and Psychology. It is aimed to increase the students' interest in scientific research, since especially interesting studies in history will be discussed. In addition, some recent Nobel prizes and the content of the works will be focused on and it will be ensured that the students will generate ideas on the subjects. Students will examine scientific

	research and will be encouraged to think about the implications of its outcomes for the future of humanity.
Course Content:	Definition and characteristics of science, a brief overview of scientific developments in the 19th and 20th centuries, science and research, scientific research method steps, Nobel prize, Nobel prize winners, important Nobel prizes in health in recent history.

Learning Outcomes

The students who have succeeded in this course;
1) Defines the concepts of science and scientific research
2) Defines the difference between hypothesis and theory
3) Describes the scientific research process

Course Flow Plan

Week	Subject	Related Preparation
1)	Scientific Research Methods	
2)	Important Scientific Advances in the 19th Century	
3)	Important Scientific Advances in the 20th Century	
4)	Student presentation: problems of today, solutions for tomorrow-1	
5)	Important Scientific Advances in the 21st Century-1	
6)	Student presentation: problems of today, solutions for tomorrow-2	
7)	Important Scientific Advances in the 21st Century-2	
8)	Midterm Exam	
9)	Nobel Prizes Overview-1	
10)	Nobel Prizes Overview-2	
11)	Radioactivity	
12)	DNA repair	
13)	Student presentation: problems of today, solutions for tomorrow-3	
14)	Final exam	

Sources

Course Notes /	• Robert A. Day (1995). How to Write and Publish a Scientific Paper. 4th Edition.

Textbooks:	Cambridge University Press • James C. Zimring (2019). What Science Is and How It Really Works. 1st Edition. Cambridge University Press • Dhillon, P. (2022). How to write a good scientific review article. The FEBS Journal, 289(13), 3592-3602.
References:	https://www.nobelprize.org/

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3
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.			

Course Learning Outcomes	1	2	3
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
Midterms	2	% 40
Final	2	% 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	2	2	2	2	12
Presentations / Seminar	3	5			15
Midterms	2	30	2	1	66
Final	1	20	1	1	22
Total Workload					**115**