

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

Course Introduction and Application Information

Course Code:	TIP055		
Course Name:	Science and Philosophy		
Semester:	Fall Spring		
Course Credits:	<div>ECTS</div> <div>2</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	Departmental Elective		
Course Level:	<div> <div>Bachelor</div> <div>TR-NQF-HE:7. Master`s Degree</div> <div>QF-EHEA:Second Cycle</div> <div>EQF-LLL:7. Master`s Degree</div> </div>		
Mode of Delivery:	E-Learning		
Course Coordinator:	Prof. Dr. HAYRİ ŞAFAK URAL		
Course Lecturer(s):	Hayri Şafak Ural		
Course Assistants:			

Course Objective and Content

Course Objectives:	To gain a basic knowledge of what science and scientific thought are.
Course Content:	The development of science in relation to philosophy

Learning Outcomes

The students who have succeeded in this course;

- 1) what is science
- 2) features of scientific thought
- 3) features of science in its historical development
- 4) the importance of understanding the relationship between science and philosophy

Course Flow Plan

Week	Subject	Related Preparation
1)	Ancient philosophy and its relation to scientific studies	
2)	The main lines of modern philosophy, the characteristics of Newton's scientific studies and her/his contribution to scientific thinking	
3)	The philosophical resonance of Newton's scientific work and its influence on later periods	
4)	Modern science and its philosophical consequences	
5)	exam	
6)	Positivist Philosophy I	
7)	Positivist Philosophy II	
8)	Language and Logic	
9)	Language – Logic and Scientific concepts	
10)	The structure and functioning of modern science	
11)	Conceptual change of Newtonian physics and its philosophical consequences	
12)	Philosophical premises of non-Newtonian scientific systems I (relativistic physics)	
13)	Philosophical premises of non-Newtonian scientific systems II (quantum physics)	
14)	Chaos physics and determinism	

Sources

Course Notes / Textbooks:	Bilim Tarihi, (şafak ural) Çantay Kit.
References:	Bilim Tarihi, (şafak ural) Çantay Kit.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
Program Outcomes				
1) When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	3	2	2	1
2) knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.				
3) is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	1	1	1	1
4) knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	1	1	1	1
5) can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.	2	2	2	2
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	1	1	1	1
7) can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	1	1	1	1
8) knows the clinical decision-making process, evidence-based medicine practices and current approaches.	3	3	3	3
9) knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	2	2	2	2
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	2	2	2	2
11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	2	2	2	3
12) knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.	3	3	3	3

13) can collect health data, analyze them, present them in summary, and prepare forensic reports.	3	3	3	4
14) knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.	3	3	2	3
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.	2	2	2	2
16) knows health policies and is able to evaluate their effects in the field of application.	3	3	3	3
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	3	3	3	3
18) applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.				

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	2
2)	knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.	
3)	is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	1
4)	knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	1
5)	can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the	2

	patient's problem.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	2
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	2
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	3
9)	knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	2
10)	knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	2
11)	is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	3
12)	knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.	2
13)	can collect health data, analyze them, present them in summary, and prepare forensic reports.	2
14)	knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.	3
15)	knows employee health, environment and occupational safety issues and takes responsibility when necessary.	3
16)	knows health policies and is able to evaluate their effects in the field of application.	2
17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	3
18)	applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
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Homework Assignments	1	% 50
Final Sözlü	1	% 50
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	1	14	30
Study Hours Out of Class	1	0	1	1	2
Homework Assignments	1	1	2	5	8
Final	1	2	2	1	5
Total Workload					45