

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

Course Introduction and Application Information

Course Code:	TIP051		
Course Name:	Neuroscience 1		
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:	Face to face		
Course Coordinator:	Dr. Öğr. Üy. GÖKÇER ESKİKURT		
Course Lecturer(s):	Asst. Prof. Gökçer Eskikurt		
Course Assistants:			

Course Objective and Content

Course Objectives:	Developing a project on neuroscience by teaching research methods used in neuroscience
Course Content:	In this course, the neuroscience study areas and the research methods used will be addressed. Given instructions about how a project idea is put forward, how the literature review is done, and

the development of the project will be practiced with the students

Learning Outcomes

The students who have succeeded in this course;

- 1) Knows electrophysiological recording methods used in neuroscience
- 2) Knows the neuroimaging methods used in neuroscience
- 3) Knows brain stimulation methods used in neuroscience
- 4) Have the ability to search literature and sources
- 5) Creates the project idea and develops it
- 6) Can present the project idea

Course Flow Plan

Week	Subject	Related Preparation
1)	What is neuroscience, what are its research areas?	
2)	History of neuroscience	
3)	General overview of nervous system	
4)	Electrophysiological recording methods	
5)	Neuroimaging methods	
6)	Brain stimulation methods	
7)	Optogenetics	
8)	Literature and source search methods	
9)	What is plagiarism, what should be considered?	
10)	Putting forward the project idea - 1	
11)	Proje fikrinin ortaya atılması – 2	
12)	Development of the project idea - 1	
13)	Development of the project idea - 2	
14)	How to present the project	
15)	Project Presentations	

Sources

Course Notes /	Dersin kaynak kitabı bulunmamaktadır. / The course does not have a mandatory
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Textbooks:	resource.
References:	Dersin kaynak kitabı bulunmamaktadır. / The course does not have a mandatory resource.

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6
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.	1	1	1	1	1	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	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	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.	1	1	1	1	1	1
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	1	1	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.	3	3	3	3	3	3
8) knows the clinical decision-making process, evidence-based medicine practices and current approaches.	2	2	2	2	2	2
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.	1	1	1	1	1	1
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	1	1	1	1	1	1

Course Learning Outcomes	1	2	3	4	5	6
11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	2	2	2	2	2	2
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	3	3
13) can collect health data, analyze them, present them in summary, and prepare forensic reports.	3	3	3	3	3	3
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.	1	1	1	1	1	1
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.	1	1	1	1	1	1
16) knows health policies and is able to evaluate their effects in the field of application.	1	1	1	1	1	1
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	2	2	2	2	2	2
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)	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.	
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.	
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.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	
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.	
10)	knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	
11)	is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	
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.	
13)	can collect health data, analyze them, present them in summary, and prepare forensic reports.	
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.	
15)	knows employee health, environment and occupational safety issues and takes responsibility when necessary.	
16)	knows health policies and is able to evaluate their effects in the field of application.	

17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	
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
Attendance	28	% 0
Application	4	% 0
Presentation	1	% 50
Project	1	% 50
total		% 100
PERCENTAGE OF SEMESTER WORK		% 100
PERCENTAGE OF FINAL WORK		%
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	15	30
Laboratory	2	4
Application	2	4
Presentations / Seminar	2	4
Project	2	4
Total Workload		46