

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

Course Introduction and Application Information

Course Code:	TIP506						
Course Name:	Neurology and Neurosurgery						
Semester:	Fall						
Course Credits:	<div>ECTS</div> <div>5</div>						
Language of instruction:	Turkish						
Course Condition:							
Does the Course Require Work Experience?:	No						
Type of course:	Compulsory Courses						
Course Level:	<table> <tr> <td>Bachelor</td><td>TR-NQF-HE:7. Master`s Degree</td><td>QF-EHEA:Second Cycle</td><td>EQF-LLL:7. Master`s Degree</td></tr> </table>			Bachelor	TR-NQF-HE:7. Master`s Degree	QF-EHEA:Second Cycle	EQF-LLL:7. Master`s Degree
Bachelor	TR-NQF-HE:7. Master`s Degree	QF-EHEA:Second Cycle	EQF-LLL:7. Master`s Degree				
Mode of Delivery:	Face to face						
Course Coordinator:	Prof. Dr. HİKMET KOÇAK						
Course Lecturer(s):	Prof .Dr Yakup Krespi Prof .Dr Ertuğrul Uzar Prof. Dr Nebil Yıldız Dr.Öğr.Üyesi Yelda Yıldız Prof. Dr. Mustafa Kemal Hamamcıoğlu Doç. Dr. Muhittin Emre Altunrende Dr. Öğr. Üyesi Hakan Kına						
Course Assistants:							

Course Objective and Content

Course	To enable students to know the characteristics of the central nervous system, vascular and related
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Objectives:	diseases in adult patients, to apply preventive medical measures, to make the pre-diagnosis or diagnosis of common and urgent diseases, and to gain knowledge and skills to provide diagnosis and treatment services at the primary level.
Course Content:	It includes the symptoms and signs, diagnosis and treatment of diseases in adult patients as well as the principles of surgical treatment in the fields of Neurology and Neurosurgery through the learning objectives specified in the Core Education Program.

Learning Outcomes

The students who have succeeded in this course;

- 1) Be able to question the symptoms of central nervous system and peripheral nervous system diseases with history taking and physical examination, recognize these symptoms in the examination, request and interpret the necessary tests at the first stage, treat certain problems, determine which patients should be evaluated by a specialist
- 2) Be able to approach urgent symptoms and diseases (such as stroke, bleeding, trauma), make the diagnosis and perform the first treatment, and then send them to advanced centers under suitable conditions.
- 3) To understand the importance of good patient-physician and physician-physician communication and develop their skills.

Course Flow Plan

Week	Subject	Related Preparation
1)	Theoretical Lectures Introduction to the course and to Neurology. Approach to the neurological patient, symptoms and findings. Neurosurgery - General Information Neuroanatomy, Neurological Localization and Terminology. Motor system and strokes. Sensory processing defects. Cerebellar system, balance and coordination disorders. Vestibular system and vertigo. Classification of headache and neuralgia. Approach to the patient with headache. Cranial nerve palsy. Approach to cranial nerve palsy. Aphasia Neuropsychological evaluation. Tumors and Other Space-Occupying Lesions. Pituitary Tumors. Consciousness disorders. Sleeping disorders. Diagnosis and seizure types in epilepsy. Epilepsy syndromes. Epilepsy treatment and status epilepticus Practical training: Neurological Examination-Patient Visit Laboratory	There is no preparation-course material.
2)	Theoretical Lectures: Extrapyramidal system, Parkinson's disease and other movement disorders. Functional Neurosurgery. Pediatric Neurosurgery. Pathophysiology of ischemic stroke Diagnosis of transient ischemic attack and ischemic stroke. Ischemic stroke treatment. Brain hemorrhages. Vascular Neurosurgery Head Trauma. Spinal Trauma. Diagnosis and differential diagnosis in muscle diseases. Dementia. Acquired and hereditary myelin diseases. Multiple sclerosis. Practical training: Surgery / Polyclinic Laboratory	There is no preparation-course material.
3)	Theoretical Lectures: Approach in myasthenia gravis and neuromuscular junction diseases. Approach in acquired and hereditary muscle diseases. Motor neuron diseases. Medulla spinalis diseases. Polyneuropathies. Meningitis. Encephalitis. Case Discussion.	There is no preparation-

Central Nervous System Infections. Intracranial Pressure Syndrome, Coma, Brain Death. Brain Death Approach in neurological emergencies. Diagnostic methods in neurology. Peripheral Nervous System. Other Spinal Diseases. Exam. Practical training: Surgery / Polyclinic Exam

course
material.

Sources

Course Notes / Textbooks:	Dersin kaynak kitabı bulunmamaktadır. The course does not have a mandatory resource.
References:	Dersin konuları ile ilgili güncel makaleler ve ders slaytları./Articles mentioned in the course related with topics and lecture slides.
	Temel Kaynak/Basic Source: İstanbul Tıp Fakültesi Nöroloji Ders Notları/Istanbul Faculty of Medicine Neurology Lecture Notes

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3
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.			
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.			

Course Learning Outcomes	1	2	3
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.			

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.	
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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
Final	1	% 65
Final Sözlü	1	% 35
total		% 100
PERCENTAGE OF SEMESTER WORK		% 35
PERCENTAGE OF FINAL WORK		% 65
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	3	52
Laboratory	3	6
Application	3	24
Special Course Internship (Work Placement)	3	24
Final	1	8
Total Workload		114