

COURSE INFORMATON						
Course Title	Code	Semester	COURSE INFORMATION			
			Lecture+Practice+Laboratory Hour	Credits	ECTS	
NEUROLOGY (Clinical Clerkship)	MED 505	5/9-10	20+62	4	4*	

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites	The student that joins this course, should have at least the Phase 4 knowledge level in medical faculty.
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Language of Instruction	English					
Course Level	Second-cycle higher education (i.e. QF-EHEA-2, EQF-LLL-7, TYYÇ-7) with Master's Degree/ "Regulated Professions" legislation by EU 2005/36/EC Directive					
Course Type	Compulsory					
Course Coordinator	Yüksel Dede					
Instructors	Berrin Aktekin, M. Emin Özcan, H. Rengin Bilgen Akdeniz, Yüksel Dede					
Assistants	R. Çağla Akduman, F. Bengül Gölge, Tolga Çetindamar					
Goals	To convey necessary knowledge on pathology, symptomatology, clinics and pharmacology of neurological diseases, to equip with skills and attitudes required for an appropriate approach to management of neurological patients					
	For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf					
Content	Week 1	Monday	Tuesday	Wednesday	Thursday	Friday
	09.00-09.50	Introductory Session (Introduction to Neurology)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)
	10.00-11.20	Lecture Semiology <i>Pelin Doğan Ak</i>	Lecture Headaches <i>Emin Özcan</i>	Clinical Experience (Neurology Polyclinic)	Clinical Experience (Neurology Polyclinic)	Clinical Experience (Outpatient)
	11.30-12.00	Clinical experience	Student Group Study	Student Group Study	Student Group Study	Student Group Study
	12.00-12.50	Lunch	Lunch	Lunch	Lunch	Lunch
	13.00-13.50	Clinical Experience (Neurology polyclinic)	Lecture Medula Spinalis disorders <i>Berrin Aktekin</i>	Lecture Coma <i>H. Rengin Bilgen Akdeniz</i>	Lecture Dementia <i>Yüksel Dede</i>	Lecture Cerebrovascular Disorders <i>Işıl Kalyoncu Aslan</i>

14.00-14.50	Clinical Experience (Neurology polyclinc)	Clinical Experience (Neurology polyclinc)	Clinical Experience (Neurology Polyclinic)	Clinical Experience (Neurology Policlinc)	Lecture Motor neuron disorders <i>Burcu Bulut Okay</i>
15.00-15.50					Lecture Peripheral Nerve Disorders <i>Eren Gözke</i>

Week 2	Monday	Tuesday	Wednesday	Thursday	Friday
09.00 - 09.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)
10.00 - 10.50					
11.00 - 11.20					
11.30 - 12.00	Student Group Study	Student Group Study	Student Group Study	Student Group Study	Student Group Study
12.00 - 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00 - 13.50	Lecture Demyelinating Disorders <i>Emin Özcan</i>	Lecture Extrapyramidal Disorders <i>Yüksel Dede</i>	Clinical Experience (Outpatient)	Lecture Epilepsy <i>Berrin Aktekin</i>	Lecture Neuromuscular Junction Disorders <i>Leyla Ramazanoğlu</i>
14.00 - 14.50	Lecture Sleep Disorders <i>H. Rengin Bilgen Akdeniz</i>	Lecture CNS infections <i>Yüksel Dede</i>	Clinical Experience (Outpatient)	Lecture EEG <i>Berrin Aktekin</i>	Clinical Experience (Outpatient)
15.00 - 15.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)		Clinical Experience (Outpatient)	
16.00 - 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00 - 17.50					

Week 3	Monday	Tuesday	Wednesday	Thursday	Friday
09.00-09.50					Independent Learning

10.00-10.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient) Neurologic Exam And Semiology	Clinical Experience (Outpatient)	
11.00-11.20					Assessment Session Oral Exam
11.30-12.00	Student Group Study	Student Group Study		Student Group Study	
12.00-12.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)		Clinical Experience (Outpatient)	Lunch
13.00-13.50	Lunch	Lunch	Lunch	Lunch	Assessment Session Written Exam
14.00-14.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
15.00-15.50	Clinical Experience (Outpatient)		Clinical Experience (Outpatient)		
16.00-16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Program (Neurologist in charge)
17.00-17.50					

Learning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1. describe anatomy of the cranial nerves and symptoms of cranial nerve paresis	1,1,3	1,2,3	A, C
2. classify neurological motor and sensory system examination	1,1,3	1,2,3	A, C
3. describe physiologies and pathologies of the consciousness (coma state), explain mechanisms of coma occurrence, neurologic examination of coma patient, diagnostic methods of coma, and treatment options of unconscious patient	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C
4. state signs and symptoms of spinal cord diseases including partial or complete spinal cord involvement, neurological symptoms and diagnostic options	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
5. explain pathophysiology, diagnostic and treatment methods and pharmacology of basal ganglia and extrapyramidal disorders	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C
6. classify headaches and with respect to affected anatomical sites, signs and symptoms and describe different treatment options	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C

7. describe mechanisms of sleep disorders, signs and symptoms, methods of examination, and treatment options of sleep disorders	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
8. explain pathophysiology, signs and symptoms, and different treatment methods of CNS infections	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
9. describe signs, symptoms and examination methods of Dementia, interpret relationship with neurological diseases and anatomical locations of lesions.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
10. explain signs, symptoms and examination methods of Demyelinating diseases and classify the treatment options	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
11. describe signs, symptoms, examination methods recognize differentia diagnosis and classify the treatment options of epilepsy	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,7 - 1,1,8 - 1,1,9 - 1, 1,10 - 1,1,12	1,2,3,12	A, C
12. describe signs, symptoms, examination methods of cerebrovascular disease and emergency, recognize differential diagnosis and classify treatment options depending on the urgency	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12 - 2,5,1 - 2,5,4	1,2,3,12	A, C
13. interpret cerebellar diseases	1,1,1 - 1,1,3 - 1,4,1	1,2,3	A, C
14. outline methods of examination in neuro-muscular disorder	1,1,7 - 1,1,8	1,2,3	A, C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study
Assessment Methods:	A: Testing B: Presentation C: Homework

COURSE CONTENT		
WEEK	SUBJECT	Study Materials
1		
1	Lecture Semiology	Materials for the course provided by instructor
2	Lecture Headaches	Materials for the course provided by instructor
1	Lecture Medula Spinalis Disorders	Materials for the course provided by instructor

2	Lecture Coma	Materials for the course provided by instructor
1	Lecture Dementia	Materials for the course provided by instructor
1	Lecture Cerebrovascular Diseases	Materials for the course provided by instructor
1	Lecture Motor Neuron Diseases	Materials for the course provided by instructor
1	Lecture Peripheral Nerve Diseases	Materials for the course provided by instructor
WEEK	SUBJECT	
2		
2	Lecture Demyelinating Disorders	Materials for the course provided by instructor
2	Lecture Sleep Disorders	Materials for the course provided by instructor
1	Lecture Movement Disorders	Materials for the course provided by instructor
1	Lecture CNS Infections	Materials for the course provided by instructor
1	Lecture Epilepsy	Materials for the course provided by instructor
2	Lecture EEG	Materials for the course provided by instructor
1	Lecture Neuromuscular Junction Disorders	Materials for the course provided by instructor
WEEK	SUBJECT	
3		
8	Practice Neurologic Examination and Semiology	Materials for the course provided by instructor
8	Practice Neurologic Examination in virtual patient	Materials for the course provided by instructor
25	Practice Inpatient visits	Materials for the course provided by instructor
45	Practice Clinical Experience in Outpatient Clinic	Materials for the course provided by instructor
8	Laboratory EEG	Materials for the course provided by instructor
8	Laboratory ENMG	Materials for the course provided by instructor
3	Laboratory Video-EEG Monitoring	Materials for the course provided by instructor
2	Laboratory Intraoperative Neurophysiological Monitoring	Materials for the course provided by instructor
3	Laboratory Sleep Polysomnography	Materials for the course provided by instructor

8	Assessment Session	Materials for the course provided by instructor
3	Program Evaluation Session Review of the Exam Questions, Evaluation of the Program	Materials for the course provided by the instructor

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> Bradley and Daroff's Neurology in Clinical Practice, 2-Volume Set, 8th Edition DeJong's The Neurologic Examination 8th Edition Duus' Topical Diagnosis in Neurology: Anatomy – Physiology İstanbul Üniversitesi Tıp Fakültesi Nöroloji, 4. Baskı
Additional Resources	<ul style="list-style-type: none"> Lecture notes

MATERIAL SHARING	
Documents	Via google classroom
Assignments	Student ppt presentations
Exams	Not shared

ASSESSMENT	
Questions Types (Pencil-PaperTests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	50%
Extended Matching Questions	20%
Key Feature Questions	15%
Essay Questions	15%
Total	100 %
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)
Oral Exam (OE)	30%
Direct Observation of Procedural Skills (DOPS)	2,5%
Evaluation of Case Presentation	2,5%
Evaluation of Preparation Skills of Patient's File Global Evaluation of Student's Performance 2,5%	2,5%
Global Evaluation of Student's Performance	2,5%

Total	40 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	60%
Other Assessments Methods and Tools	40%

COURSE CATEGORY	Expertise/Field Courses
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COURSE'S CONTRIBUTION TO PROGRAMME						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1. Basic Professional Competencies						
1.1.	Clinical Competencies					x
1.2.	Competencies Related to Communication				x	
1.3.	Competencies Related to Leadership and Management			x		
1.4.	Competencies Related to Health Advocacy				X	
1.5.	Competencies Related to Research			x		
1.6.	Competencies Related to Health Education and Counseling				x	
2. Professional Values and Perspectives						
2.1.	Competencies Related to Law and Legal Regulations			x		
2.2.	Competencies Related to Ethical Aspects of Medicine					x
2.3.	Competencies Related to Social and Behavioral Sciences					x
2.4.	Competencies Related to Social Awareness and Participation					x
2.5.	Competencies Related to Professional Attitudes and Behaviors					x
3. Personal Development and Values						
3.1	Competencies Related to Lifelong Learning					x
3.2.	Competencies Related to Career Management				x	
3.3.	Competencies Related to Protection and Development of Own Physical and Mental Health					x

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity or day	Duration (Hour)	Total Workload (Hour)
Course Duration (3 weeks)	15	5.5	82.5
Hours for off-the-classroom study (Pre-study, practice, review/week)	15	2	30
Homework	1	2	2
Exam	2	1	2
Total Work Load			116.5
Total Work Load / 30 (h)			3.88
ECTS Credit of the Course			4