



**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE
PHASE V
ENGLISH MEDICINE PROGRAM**

**COURSE of NEUROLOGY
2022/2023 Academic Year
COURSE GUIDEBOOK**

**Course Code: Med 5005
Course Topic Code: MED5-NÖR**

***This guide has been prepared by the Department of NEUROLOGY. Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

PREFACE

Dear Students,

Welcome to the Neurology course which is an important part of your education.

In this course program, which is going to continue for 3 weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

Department of Neurology

GENERAL INFORMATION on COURSE

Course Title	: Neurology
Main Department of Course	: Internal Medical Sciences
Department Responsible for Course	: Neurology
Course Code	: MED-5005
Course Type	: Required
Duration of the Course	: 3 weeks
Teaching Method of the Course	: Formal
ECTS	: 5
Language	: English
Head of the department	: Gülnihal KUTLU GÜNERGİN, MD, Prof
Teaching Staff	:

Teaching Staff	Subject area	Theoretical Course duration (Hours)
Gülnihal KUTLU GÜNERGİN, MD, Prof	Neurology	8
Vedat Semai BEK, MD, Prof	Neurology	10
Emrah Emre DEVECİ, MD, AssProf	Neurology	14
Utku CENİKLİ, MD, AssProf	Neurology	13

Coordinator of the Department Education Program: Gülnihal KUTLU GÜNERGİN, MD, Prof

Coordinator of the Course Education Program: Emrah Emre DEVECİ, MD, Ass. Prof

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TEACHING METHODS-TECHNIQUES

1. Theoretical lessons
2. Learning Centered Teaching
 - a. Case-based discussion sessions
 - b. Student case reports,
 - c. Practical application at the bedside
 - d. Practical application at the bedside in the outpatient clinic
3. Interactive teaching

PHYSICAL SPACES

Teaching Activity	Physical Space	Explanation
Theoretical lessons	Morphology Building	
Inpatient bedside practice	Training and Research Hospital	-3 rd Floor-Neurology Clinic -3 rd Floor- Stroke Clinic Ground Floor - Neurology Intensive Care
Policlinic	Training and Research Hospital	
Case analysis	Morphology Building	
Problem-based teaching	-	
Special audit applications	Training and Research Hospital	1 st Floor- Neurophysiology Laboratory Ground Floor- Clinical Neurophysiology Department - Neurophysiology Laboratory 3 rd Floor- Angio Laboratory
Private field applications	Training and Research Hospital	

RELATED LEGISLATION

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

AIM(S) of the COURSE

1	In this course, it is aimed that the students gain sufficient knowledge, skills, and attitudes to evaluate the signs and symptoms of common neurological diseases within the scope of the National CEP, to diagnose in primary care conditions, to create / implement / monitor a treatment plan, to make emergency intervention when necessary and to refer them to a neurologist.
2	In this course, it is aimed that the students learn the normal and pathological functional anatomy of the nervous system.
3	In this course, it is aimed that the students learn to perform the neurological examination.

OBJECTIVE(S) of the COURSE

1	To be able to recognize and take history of neurological complaints and symptoms.
2	To be able to perform neurological examination.
3	To be able to explain the differential diagnosis, diagnosis, and treatment principles in neurological diseases, being able to triage if necessary.
4	To be able to explain treatment algorithms in neurological diseases.
5	To be able to diagnose and treat neurological emergencies including acute ischemic cerebrovascular disease and status epilepticus.

INTENDED LEARNING OUTCOME(S)

1	Can recognize and take history of neurological complaints and symptoms.
2	Can perform neurological examination.
3	Can explain the differential diagnosis, diagnosis, and treatment principles in neurological diseases, being able to triage if necessary.
4	Can explain treatment algorithms in neurological diseases.
5	Can diagnose and treat neurological emergencies including acute ischemic cerebrovascular disease and status epilepticus.

DUTIES AND RESPONSIBILITIES OF STUDENTS

Duration of course is 3 weeks.

In addition to the theoretical courses, "patient practice" courses are carried out during the course.

Hand washing rules and patient safety rules are expected to be followed in intensive care and clinics.

Our physician candidate, who is assigned with bedside history taking and physical examination in the service, is expected to present patient information, differential diagnoses, and patient's diagnosis during the next day's visit.

In outpatient clinic practices, the physician candidate is expected to present his thoughts on diagnosis and treatment by taking a history from the patient and performing a physical examination.

Clinical and intensive care visits are performed by all academic staff and students under the title of "Patient Evaluation From Symptom to Diagnosis" on all Wednesdays. In the second and/or third weeks of the course, during or after the visit, a Bedside Practice Exam will be held about the patient for whom the student is given responsibility, about the examination - presentation - patient evaluation from symptom to diagnosis, in accordance with the student's level of knowledge

Students are responsible for completing the course logbook for each application during the course.

During the course program (if no change is notified by the relevant faculty member during the course period), students are expected to fully present for theoretical or practical application. According to the regulation, there is an attendance requirement of 70% in theoretical courses and 80% in applied courses in Phase V.

RECOMMENDED RESOURCE(S)

KEY RESOURCE(S)

KEY RESOURCE(S)	Matched Course Outcome(s)
Bradley's Neurology in Clinical Practice, 8th Edition. Jankovic, Mazziotta, Pomeroy & Newman, ELSEVIER (2021).	1,2,3,4,5
Adams and Victor's Principles of Neurology, 11th Edition. Ropper, Samuel, Klein, Prasad. McGraw Hill / Medical 2019.	1,2,3,4,5

ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)
CURRENT Diagnosis & Treatment Neurology, Third Edition, John C. Brust, McGraw Hill / Medical Lange (2019).	1,2,3,4,5
Merritt's Neurology, Fourteenth Edition. Louis, Mayer, Noble, Wolters Kluver (2021)	1,2,3,4,5

ASSESSMENT and EVALUATION

Assessment and Evaluation in the End of Course Evaluation Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value for the End of Course Evaluation
Attendance to Classes		Compulsory	
Course Logbook		Compulsory	
Approach to the Neurological Patient from Symptom to Diagnosis at Weeks 2 and 3 Wednesday Visits**	At least 1 patient presentation		10
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Bedside Clinical Practice Exam**	Neurological examination under the supervision of a faculty member		15
Structured Oral Examination***	Under the supervision of at least two faculty members		25
Total			100

Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles

For the right to take the written exam, the student must be evaluated as “adequate” from the criteria specified in the course report.

Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

1st stage: Multiple Choice Theoretical Test Exam

2nd stage: Structured Oral Examination + Bedside Clinical Practice Exam

Assessment and Evaluation in Resit Examination

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Bedside Clinical Practice Exam**	Neurological examination under the supervision of a faculty member		20
Structured Oral Examination***	Under the supervision of at least two faculty members		30
Total			%100

Assessment and Evaluation in Single Course Resit Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Bedside Clinical Practice Exam**	Neurological examination under the supervision of a faculty member		20
Structured Oral Examination***	Under the supervision of at least two faculty members		30
Total			%100

COURSE LOGBOOK

STUDENT'S NAME AND SURNAME :

STUDENT'S SCHOOL NO :

COURSE PERIOD :

APPLICATION	NCEP Clause	TEACHING STAFF (SIGNATURE)
DATE		
1.Taking History About General Problem	A1	
2.Evaluation of Mental Status	A2	
3.Evaluation of Consciousness	B4	
4.Evaluation of General Status and Vital Symptoms	B9	
5.Fundosopic Examination	B10	
6.Musculoskeletal System Examination	B14	
7.Neurological Examination	B17	
8.Performing Mober Puncture	E46	
9.Mini Mental Status Examination	E47	
10.Evaluation of Geriatric Status	F6	
11.Editing scientific data, summarizing with table and graphics	G1	
12.Analyzing scientific data with appropriate methods and interpreting their results	G2	
13.Organizing research using scientific principals and methods	G3	
14.Attaining updated literature information and criticize	G4	
15.Using principles of evidence-based medicine in clinical decision making	G5	

DECISION: PASS FAIL

Head of Department or Coordinator:

Date:

Signature:

Faculty of Medicine
English Medicine Program
Phase V
NEUROLOGY COURSE
Competence Matrix

The Name of the Course	Po1	Po2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12	Po13
Neurology	5	5	5	5	5	1	5	5	5	5	5	1	2

* Completed according to the following program outcomes. (Score from 0 to 5.)

PO: Program Outcomes of Faculty of Medicine

PO Link: <https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr>

TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS

Intended Learning Outcome	TRAINING ACTIVITY MATCHING	ASSESSMENT AND EVALUATION METHODS MATCHING
1.Can recognize and take history of neurological complaints and symptoms.	V,CR,T,C	P-L, OE, TE
2.Can perform neurological examination.	VCL,CR, C,T	P-L, OE, TE
3.Can explain the differential diagnosis, diagnosis, and treatment principles in neurological diseases, being able to triage if necessary.	C, T, CR,V	P-L, OE, TE
4.Can explain treatment algorithms in neurological diseases.	C, T, CR,V	P-L, OE, TE
5.Can diagnose and treat neurological emergencies including acute ischemic cerebrovascular disease and status epilepticus.	CR, T, V, Pr	P-L, OE, TE
<p>Abbreviations Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion- Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr) Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)</p>		

INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE PROGRAM

Lecture Code*	Hour	Lecture Type	Lecture Subject	Course Aim Matching	Course Learning Outcome Matching	Activity Matching**	Assessment and Evaluation Method matching **	Vertical Integration	Horizontal Integration
MED 5-NÖR 001	1	T	Course Introduction-Information Meeting of Neurology	1	1, 2, 3	V, Pr		Phase 3	
MED 5-NÖR 002	3	T	Neurological Examination and Approach to Neurological Patient	1, 2	1, 2, 3	T, CR	P-L, OE, TE	Phase 3	Phase 5-Neurosurgery Course
MED 5-NÖR 003	3	T	Epilepsy	1, 2	1, 3, 4, 5	T, CR	P-L, OE, TE	Phase 1, 2 and 3	
MED 5-NÖR 004	1	T	Consciousness Disorders and Examination	1, 2, 3	1, 2, 3, 5	T, CR	P-L, OE, TE	Phase 2 and 3	
MED 5-NÖR 005	2	T	Dementia	1, 2, 3	1, 2, 3, 4	T, CR	P-L, OE, TE	Phase 2 and 3	Phase 5-Psychiatry Course
MED 5-NÖR 006	2	T	Cerebrovascular Diseases	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and 3	Phase 5-Neurosurgery Course
MED 5-NÖR 007	1	T	Aphasia, Apraxia, and Agnosia	1, 2, 3	1, 2, 3	T, CR	P-L, OE, TE	Phase 2 and 3	
MED 5-NÖR 008	1	T	Central Nervous System Infections	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and Phase 4 Infectious Diseases Course	
MED 5-NÖR 009	1	T	Muscle Diseases	1, 2, 3	1, 2, 3, 4	T, CR	P-L, OE, TE	Phase 1, 2 and 3	
MED 5-	2	T	Peripheral Nervous System Diseases	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and 3	

NÖR 010									
MED 5- NÖR 011	1	T	Motor Neuron Disease and Neuromuscular Junction Diseases	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and 3	
MED 5- NÖR 012	2	T	Multiple Sclerosis and Other Demyelinating Disorders of Central Nervous System	1, 2, 3	1, 2, 3, 4	T, CR	P-L, OE, TE	Phase 2 and 3	
MED 5- NÖR 013	3	T	Hypokinetic and Hyperkinetic Movement Disorders	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and 3	
MED 5- NÖR 014	1	T	Sleep Disorders	1, 2	1, 2, 3, 4	T, CR	P-L, OE, TE	Phase 2	Phase 5- Psychiatry Course
MED 5- NÖR 015	2	T	CSF, CSF Circulation Disorders and Increased ICP	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2	Phase 5- Neurosurger y Course
MED 5- NÖR 016	2	T	Primary and Secondary Headaches	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 1, 2 and 3	
MED 5- NÖR 017	1	T	Spinal Cord Anatomy and Diseases	1, 2, 3	1, 2, 3, 4, 5	T, CR	P-L, OE, TE	Phase 2 and 3	Phase 5- Neurosurger y Course
MED 5- NÖR 018	6	P	Patient Evaluation from Symptom to Diagnosis	1, 2, 3	1, 2, 3, 4, 5	V, CR, C	P-L, OE, TE	Phase 3	
MED 5- NÖR 019	1	P	Introduction to Neurology	1	1, 2, 3	V, Pr	P-L, OE, TE	Phase 3	
MED 5- NÖR 020	1	P	Clinic - Intensive Care Unit - electrophysiology Lab Introduction	1	1, 2, 3	V, Pr	P-L, OE, TE	Phase 3	
MED 5- NÖR 021	2	P	Distributing Patients to Students and Taking History- Taking History About General Problem	1,2	1, 3	V, CR, C	P-L, OE, TE	Phase 3	
MED 5- NÖR 022	1	P	Distributing Patients to Students and Taking History- Evaluation of Mental Status	1, 2, 3	1, 2, 3	V, CR, C	P-L, OE, TE	Phase 3	Phase 5- Psychiatry Course
MED 5- NÖR 023	8	P	Neurological Examination	2,3	2	V, CR, C	P-L, OE, TE	Phase 3	

MED 5-NÖR 024	1	P	Neurological Examination- Evaluation of Consciousness	2, 3	2	V, CR, C	P-L, OE, TE	Phase 3	Phase 5- Anaesthesiology and Reanimation Course, Phase 5- Emergency Medicine Course, Phase 5- Neurosurgery Course
MED 5-NÖR 025	1	P	Neurological Examination- Evaluation of General Status and Vital Symptoms	1, 2, 3	1, 2, 3	V, CR, C	P-L, OE, TE	Phase 3, Phase 4- Internal Medicine Course	Phase 5- Anaesthesiology and Reanimation Course, Phase 5- Emergency Medicine Course
MED 5-NÖR 026	1	P	Neurological Examination- Fundoscopic Examination	1, 2, 3	1, 2, 3	V, CR, C	P-L, OE, TE	Phase 3	Phase 5- Ophthalmology Course
MED 5-NÖR 027	1	P	Neurological Examination- Musculoskeletal System Examination	1, 2, 3	1, 2, 3	V, CR, C	P-L, OE, TE	Phase 3	Phase 5- Physical Medicine and Rehabilitation Course
MED 5-NÖR 028	1	P	Participating to Out/In-patient Clinics and Lab Work- Performing Lumbar Puncture	1, 2, 3	1, 3	C	P-L	Phase 4 Infectious Diseases Course	Phase 5- Anaesthesiology and Reanimation Course
MED 5-NÖR 029	1	P	Participating to Out/In-patient Clinics and Lab Work- Mini Mental Status Examination	1, 3	1, 2, 3	V, CR, C	P-L, OE, TE	Phase 3	Phase 5- Psychiatry Course
MED 5-NÖR 030	1	P	Participating to Out/In-patient Clinics and Lab Work- Evaluation of Geriatric Status	1, 2, 3	1, 2, 3	V, CR, C	P-L	Phase 3	
MED 5-NÖR 031	1	P	Participating to Out/In-patient Clinics and Lab Work- Editing scientific data, summarizing with table and graphics	1, 2	3, 4	V, Pr	P-L	Phase 6 Public Health Course	
MED 5-NÖR 032	1	P	Participating to Out/In-patient Clinics and Lab Work- Analyzing scientific data with appropriate methods and interpreting their results	1, 2	3, 4	V, Pr	P-L	Phase 6 Public Health Course	
MED	1	P	Participating to Out/In-	1, 2	3, 4	V,	P-L	Phase 6	

5-NÖR 033			patient Clinics and Lab Work- Organizing research using scientific principals and methods			Pr		Public Health Course	
MED 5-NÖR 034	1	P	Participating to Out/In-patient Clinics and Lab Work- Attaining updated literature information and criticize	1, 2	3, 4	V, Pr	P-L	Phase 6 Public Health Course	
MED 5-NÖR 035	1	P	Participating to Out/In-patient Clinics and Lab Work- Using principles of evidence-based medicine in clinical decision making	1, 2	1, 3, 4, 5	V, S, OS, P	P-L	Phase 3	
MED 5-NÖR 036	4	P	Structured Free Study Hour - Collection for Individual Patient Presentation	1, 2, 3	1, 2, 3	V	P-L		
MED 5-NÖR 037	4	P	Structured Free Study Hour - Library Research for Individual Patient Presentation	1, 2, 3	1, 2, 3, 4, 5		P-L		
MED 5-NÖR 038	10	P	Structured Free Study Hour- Individual Research for Case Analysis	1, 2, 3	1, 2, 3, 4, 5	CR	P-L, OE, TE		
MED 5-NÖR 039	1	P	Structured Free Study Hour - group events/conversation about patient history, scenarios, patient examination, differential diagnosis, and treatment.	1, 2, 3	1, 2, 3, 4, 5	CR	P-L, OE, TE		
MED 5-NÖR 040	12 or 16	P	Structured Free Study Hour - Self Study in the Library	1, 2, 3	1, 2, 3, 4, 5		P-L, OE, TE		
MED 5-NÖR 041	8	P	Participating to Out/In-patient Clinics and Lab Work-	1, 2, 3	1, 2, 3, 4, 5	V, CR, C, Pr	P-L, OE, TE		
MED 5-NÖR 042	4	P	Bedside teaching-an overview	1, 2, 3	1, 2, 3, 4, 5	V, CR, C, Pr	P-L, OE, TE		
MED 5-NÖR 043	1	T	Evaluation of Course Exam Questions	1, 2, 3	1, 2, 3, 4, 5	S			
MED 5-	1	T	Course Evaluation	1, 2, 3	1, 2, 3, 4, 5	S			

NÖR 044		Meeting						
<p>EXPLANATIONS: * Lecture code will be formed by writing 001, 002,... at the end of the code taken from the "Codes for Phase 5 matrix" section. **Abbreviations Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr) Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)</p>								