

**University of Mostar, Faculty of Medicine**  
**Medical Study in English**

**Course in Neurology**

**Course leader: Ass. Prof. Nataša Pejanović-Škobić, MD, PhD**

**Academic Year: 2024/2025**

***September 30 – October 22, 2024.***

## **I. COURSE AIMS:**

- To learn the meaningful approach to the case history, neurological status and clinical way of making a decision in neurology
- To encourage the independent gaining of knowledge
- To learn how to present patients verbally
- To prepare concise and clear neurological medical findings
- To learn how to carry out the neurological status and how to differentiate normal findings and neurological disturbances
- To learn how to localise the site of lesion in the central nervous system which could cause the patient's symptoms and signs
- To learn how to formulate the differential diagnosis
- To learn how to perform lumbar puncture
- To learn how to order and interpret findings of usual examinations which are being used in diagnostics of neurological diseases
- To understand the principles of treatment of the most frequent neurological disorders

## **II. LOCATIONS:**

Lectures will take place at the Faculty of Medicine University of Mostar, Bijeli brijeg bb, 88000 Mostar

Seminars will take place at the Faculty of Medicine University of Mostar, Bijeli brijeg bb, 88000 Mostar

Practicals will be held in the Division of the Clinic of Neurology or in the laboratories of the Clinic of Neurology, University Clinical Hospital Mostar, Bijeli brijeg bb, 88000 Mostar

## **III. COURSE STRUCTURE:**

Total: 90 hours

lectures (L): 24 hours

seminars (S): 25 hours

practicals (P): 41 hours

#### IV. MEDICAL STUDY IN ENGLISH: NEUROLOGY - COURSE SCHEDULE 2022-2023

Date	Title	Time	Topic	Hrs	Lecturer	Place
<b>Monday 30.09.2024.</b>	L1	09.00-10.30	Introduction	2	Nataša Pejanović-Škobić	MEF
	S1	10.35-11.20	Case history of neurological patient	1	Nataša Pejanović-Škobić	MEF
	S2	11.25-12.10	Examination of neurological patient - Cranial nerves	1	Nataša Pejanović-Škobić	MEF
	P1	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Tuesday 01.10.2024.</b>	L2	09.00-10.30	Functional neuroanatomy	2	Nikolina Pravdić	MEF
	S3	10.35-11.20	Examination of neurological patient - Motor system	1	Davor Batinić	MEF
	S4	11.25-12.10	Examination of neurological patient - Sensory system	1	Davor Batinić	MEF
	P2	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Wednesday 02.10.2024.</b>	L3	09.00-10.30	Cerebrovascular disorders	2	Marija Bender	MEF
	S5	10.35-11.20	Cerebrovascular disorders - clinical picture	1	Marija Bender	MEF
	S6	11.25-12.10	Ultrasound of the head and neck blood vessels	1	Marija Bender	MEF
	P3	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Thursday 03.10.2024.</b>	L4	09.00-10.30	Headache and cranial neuralgias	2	Nataša Pejanović-Škobić	MEF
	S7	10.35-11.20	Emergency neurology	1	Marija Bender	MEF
	P4	11.30-13.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Friday 04.10.2024.</b>	L5	09.00-10.30	Epilepsy and paroxysmal consciousness disorders	2	Silvio Bašić	MEF
	S8	10.35-11.20	Epilepsy - clinical picture	1	Silvio Bašić	MEF
	S9	11.25-12.10	Electroencephalography	1	Silvio Bašić	MEF
	P5	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology

<b>Monday 07.10.2024.</b>	L6	09.00-10.30	Intensive care neurology	2	Nataša Pejanović-Škobić	MEF
	S10	10.35-11.20	Brain stem syndromes. Vertigo.	1	Vlatko Šulentić	MEF
	S11	11.25-12.10	Low back pain	1	Vlatko Šulentić	MEF
	P6	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Tuesday 08.10.2024.</b>	L7	09.00-10.30	Dementia	2	Vlatko Šulentić	MEF
	S12	10.35-11.20	Clinical picture of patient with dementia	1	Vlatko Šulentić	MEF
	P7	11.30-13.45	<b>Practicals</b>	3	Lecturers and assistants	Clinic of Neurology
<b>Wednesday 9.10.2024.</b>	L8	09.00-10.30	Movement disorders	2	Nikolina Pravdić	MEF
	S13	10.35-11.20	Movement disorders - clinical picture	1	Nikolina Pravdić	MEF
	S14	11.25-12.10	CNS infections	1	Marija Bender	MEF
	P8	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Thursday 10.10.2024.</b>	L9	09.00-10.30	Neuromuscular disorders	2	Nataša Pejanović-Škobić Davor Batinić	MEF
	S15	10.35-11.20	Electromyoneurography	1	Davor Batinić	MEF
	P9	11.30-13.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Friday 11.10.2024.</b>	L10	09.00-10.30	Coma and brain death	2	Nataša Pejanović-Škobić	MEF
	S16	10.35-11.20	Consciousness and disturbances of consciousness	1	Nataša Pejanović-Škobić	MEF
	P10	11.30-13.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology

<b>Monday 14.10.2024.</b>	L11	09.00-10.30	Demyelinating disorders	2	Inge Klupka-Sarić	MEF
	S17	10.35-11.20	Treatment of multiple sclerosis	1	Inge Klupka-Sarić	MEF
	S18	11.25-12.10	Diagnosis of cerebrospinal fluid	1	Inge Klupka-Sarić	MEF
	P11	12.30-14.00	<b>Practicals</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Tuesday 15.10.2024.</b>	S19	09.00-10.30	Spinal disorders	1	Davor Batinić	MEF
	S20	10.35-11.20	Pain and pain syndromes	1	Nikolina Pravdić	MEF
	P12	11.30-13.45	<b>Practicals</b>	3	Lecturers and assistants	Clinic of Neurology
<b>Wednesday 16.10.2024.</b>	S21	09.00-09.45	Localisation in clinical neurology	1	Davor Batinić	MEF
	S22	09.50-10.35	My hardest clinical case	1	Davor Batinić	MEF
	P13	11.00-13.15	<b>Practicals</b>	3	Lecturers and assistants	Clinic of Neurology
<b>Thursday 17.10.2024.</b>	S23	09.00-09.45	Genetics of neurological diseases	1	Nataša Pejanović-Škobić	MEF
	S24	09.50-10.35	Autonomic nervous system disorders - selected topics	1	Nataša Pejanović-Škobić	MEF
	P14	11.00-12.30	<b>Practicals (Summary)</b>	2	Lecturers and assistants	Clinic of Neurology
<b>Friday 18.10.2024.</b>	L12	09.00-10.30	Central nervous system tumors	2	Inge Klupka-Sarić	MEF
	S25	10.35-11.20	Paraneoplastic neurologic syndromes	1	Inge Klupka-Sarić	MEF
	P15	11.30-13.00	<b>Practicals (Summary)</b>	2	Lecturers and assistants	Clinic of Neurology

<b>Monday 21.10.2024.</b>	<b>P16</b>	<b>09.00-10.30</b>	<b><i>Practicals (Ultrasound)</i></b>	2	Lecturers and assistants	Clinic of Neurology
	<b>P17</b>	<b>10.30-12.00</b>	<b><i>Practicals (EEG lab)</i></b>	2	Lecturers and assistants	Clinic of Neurology
	<b>P18</b>	<b>12.00-13.30</b>	<b><i>Practicals (EMNG lab)</i></b>	2	Lecturers and assistants	Clinic of Neurology
<b>Tuesday 22.10.2024.</b>	<b>P19</b>	<b>09.00-10.30</b>	<b><i>Preliminary examination (practical)</i></b>	2	Lecturers - examiners	Clinic of Neurology
<b>Wednesday 23.10.2024.</b>	<b>Exam</b>	<b>09.00-14.00</b>	<b>Examination (written + oral)</b>		<b>Lecturers - examiners</b>	<b>MEF</b>

**Practicals:**

P1: Case history of neurological patient

P2: Motor system

P3: Sensation

P4: Cranial nerve I: Olfactory nerve

P5: Cranial nerves II, III, IV, VI: Eye

P6: Cranial nerves V and VII: The face

P7: Cranial nerve VIII: Auditory nerve

P8: Cranial nerves IX, X, XII: The mouth

P9: Cranial nerve XI: Accessory nerve

P10: Gait and coordination

P11: The autonomic nervous system

P12: Speech

P13: Mental state, higher function

P14: Summary of standard neurological examination -1

P15: Summary of standard neurological examination -2

P16: Diagnostic methods in neurology: Ultrasound of the head and neck vessels

P17: Diagnostic methods in neurology: EEG practicals

P18: Diagnostic methods in neurology: EMNG practicals

P19: Preliminary examination – practical exam

## V. EXAMINATIONS:

Students need to prepare actively for participating in seminars and practicals.

Testing of knowledge is done by preliminary exam (examination of the neurological patient), written and oral final exam

Presence on the lectures, seminars and practicals is obligatory. Student can miss only 20% of the selected topics (reasonable grounds).

**Preliminary exam (examination of the neurological patient)** will be held on the last day of the Course.

After finishing the course students have to gather signature of the Course leader / Chair of the Department in Index (before written exam) as prove that they have finished the Course and have prerequisite for the final exam.

**Written exam** consists of multiple choice questions. Passing the written exam is a requirement for approaching the **oral exam**.

The results of the written exam are acknowledged by the end of the ongoing academic year. After that, students have to take the written exam again.

The whole exam should be finished within 5 days after completion of the written exam.

## VI. COURSE GRADES:

Written exam:

45-50 points - excellent (5) - (A)

40-44 points - very good (4) - (B)

34-39 points - good (3) - (C)

28-33 points - satisfactory (2) - (D)

0-27 points - fail (1) - (F)

Oral exam:

excellent (5) - (A); very good (4) - (B); good (3) - (C); satisfactory (2) - (D); fail (1) - (F).

Final course grade is calculated as a mean from final written (30%) and final oral (70%) exam grades.

## VII. REGULAR DATES OF WRITTEN EXAM:

*1st exam term: 23th October 2024*

*2nd exam term: 17th February 2025*

*3rd exam term: 7th July 2025*

*4th exam term: 15th September 2025*



## VIII. LITERATURE:

### Recommended:

Simon RP, Aminoff MJ, Greenberg DA. Clinical Neurology. 10th Edition. New York: Lange Medical Books/McGraw Hill, 2018.

### Supplementary:

Mattle H. Mumenthaler M. Fundamentals of Neurology, An illustrated Guide, Second edition. Thieme, 2017.

Adams AC. Mayo Clinic Essential Neurology. Rochester (2nd edition): Mayo Foundation for Medical Education and Research, 2017.

Fuller G. Neurological Examination Made Easy. Sixth Edition. Elsevier, 2019.

## IX. LIST OF LECTURERS AND TEACHING STAFF

1. Assistant Professor Nataša Pejanović-Škobić, MD, PhD, neurologist – *Course leader*
2. Professor Inge Klupka-Sarić, MD, PhD, neurologist – *Course leader deputy*
3. Assistant Professor Nikolina Pravdić, MD, PhD, neurologist - *Secretary of the Course in Neurology*
6. Professor Silvio Bašić, MD, PhD, neurologist (Zagreb, Croatia)
7. Assistant Professor Vlatko Šulentić, MD, PhD, neurologist (Zagreb, Croatia)
4. Assistant Davor Batinić, MD, MSc, neurologist
5. Assistant Marija Bender, MD, PhD, neurologist

## X. LIST OF EXAMINERS FOR 2024/2025. ACADEMIC YEAR

1. Assistant Professor Nataša Pejanović-Škobić, MD, PhD, neurologist
2. Professor Inge Klupka-Sarić, MD, PhD, neurologist
3. Assistant Professor Nikolina Pravdić, MD, PhD, neurologist

**Course leader:**  
**Ass. Prof. Nataša Pejanović-Škobić, MD, PhD**