DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT III
1.4.	DISCIPLINE NEUROLOGY
1.5.	STUDY DOMAIN: Health, sectoral regulated within the European Union
1.6.	STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)
1.7.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline

2.1.	Discipline name according to the study curriculum: NEUROLOGY				
2.2.	Discipline code: MD04S05EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: PROF DR OCTAVIANA ADRIANA DULAMEA				
2.6.	Practical classes / seminar tenure: Prof. dr, Octaviana Adriana Dulamea				
2.7. Year of study	IV	2.8. Semester	VII	2.9. Evaluation (E/C/V)	E

3. Estimated total time (hours/ semester of teaching and training activity /individual study)

I. University training						
3.1. Number of hours per week	3	from which:	3.2. lecture	1	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	42	from which:	3.5. lecture	14	3.6. practical class/ seminar	28
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						10
Additional documentation activity in the library, on online platforms						8
Specific preparation activities for projects, practical classes, preparation of assignments, reports						2
Preparation for presentations or evaluations, preparation for the final examination						4
Tutoring activity						4
Other activities						4
3.7. Total hours of individual study						78
3.8. Total hours per semester (3.4.+3.7.)						120
3.9. Number of credits						4

4. Prerequisites (where appropriate)

4.1. curriculum	
4.2. proficiencies	

5. Conditions (where appropriate)

5.1. for lecture activity	Classroom equipped with video projector, projection screen, and PC.
5.2. for practical class/ seminar activity	Practical work room equipped with television, laptop, and wards from the Neurology Clinic IC Fundeni with 1–6 beds.

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
The student describes, analyzes, and evaluates the etiopathogenic mechanisms, risk factors, clinical and paraclinical manifestations, as well as the principles of diagnosis and treatment specific to neurological disorders, with particularities relevant to dentistry/dental medicine.	The student demonstrates, interprets, and correctly uses clinical and paraclinical methods and techniques for the diagnosis and assessment of neurological and mental health disorders.	The student plans, integrates, and coordinates, under appropriate supervision, specific interventions for patients with neurological disorders.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	The acquisition of knowledge related to neurological pathology and its implications in dental practice
7.2. Specific objectives	Identification of neurological disorders and management of patients with neurological conditions in dental practice.

8. Contents

8.1. Lecture	Teaching methods	Observations
Lecture 1: Concepts of neurobiology and neurophysiology, notions of anatomy, semiology, and pathology of the cranial nerves (olfactory, optic, oculomotor nerves).	PowerPoint presentation that includes videos or images of patients with the pathology described in the lecture, as well as imaging or neurophysiological	The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.

Lecture 2: Concepts of anatomy, semiology, and pathology of the cranial nerves (trigeminal, facial, glossopharyngeal, vagus, accessory, hypoglossal nerves)	investigations and neurocognitive assessment	The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.
Lectures 3: Concepts of Neurological Semiotics: motor function, cerebellar syndromes, extrapyramidal syndromes, sensory syndromes, lobar syndromes, syndromes, thalamic syndrome, brainstem syndromes		The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.
Lecture 4: Disorders of Consciousness, Epilepsy. Brain Tumors. Neuroinfections.		The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.
Lecture 5: Migraine, headache, craniofacial pain. Cerebral vascular disease: risk factors, semiology, diagnosis, therapeutic management, evolution, and prognosis – ischemic stroke, hemorrhagic stroke, cerebral venous thrombosis.		The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.
Lecture 6: Demyelinating diseases of the CNS, neurodegenerative diseases: Alzheimer's dementia, Parkinson's disease, Amyotrophic lateral sclerosis (ALS): semiology, diagnosis, therapeutic management, evolution, and prognosis.		The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.
Lecture 7: Pathology of the peripheral nervous system, the neuromuscular junction, and the muscles.		The cases presented are either from the pathology of the Neurology Clinic IC Fundeni with the patients' consent, or from the specialized bibliography.

Recent bibliography:

1. **Neurological diseases. Implications in medical and dental practices. First Edition Armin Ariana. Ed.Thieme. 2019**
2. **Neuroscience for dentistry. Laura Barritt. Ed Thieme. 2022**
3. **Fundamentals of neurology, M. Mumenthaler, H. Mattle, E. Taub, Thieme, 2nd Edition, 2017**

4. **Adam's and Victor's Principles of neurology, A.H. Ropper, R.H. Brown., McGraw-Hill Professional; 12th Edition, 2023.**
5. **Continuum. Lifelong learning in neurology**

8.2. Practical classes/ seminar	**Teaching methods**	**Observations**
Practical class 1: Semiology of cranial nerves I, II, III, IV, V, VI	Presentation of methods for examining the cranial nerves and diagnosing cranial nerve pathologies, along with illustrative clinical case presentations at the patient's bedside, interactive discussions, and PowerPoint presentations illustrating neurological examination methods and clinical cases.	The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 2: Semiology of cranial nerves VII–XII, semiotics of motor function, extrapyramidal syndromes		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 3: Disorders of consciousness, disorders of cognitive functions, disorders of memory and attention		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 4: Cerebellar syndromes, sensory disorders, meningeal signs, involuntary movements		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 5: Epilepsy; neurological emergencies		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 6: Neurological pathology and its interrelations with dental pathology – part 1		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.
Practical class 7: Neurological pathology and its interrelations with dental pathology – part 2		The cases presented are either from the pathology of the Neurology Clinic at IC Fundeni with patient consent, or from specialized bibliography.

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9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4. Lecture	Assessment of knowledge related to neurological semiology and pathology with implications in dental medicine.	Final written theoretical exam	75%
9.5. Practical classes/ seminar	Assessment of knowledge related to neurological examination with implications in dental practice	Final practical oral exam evaluating knowledge of clinical patient examination	25%
9.5.1. Individual project (if any)			
Minimum performance standard			
o pass the exam, a minimum final grade of 5 (five) is required on both the final theoretical exam and the final practical exam, which correspond to basic knowledge about neurological semiology and pathology.			