

DISCIPLINE SHEET**ACADEMIC YEAR****2022-2023****1. DATA ABOUT THE STUDY PROGRAM**

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY OF CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	6
1.4 Study Domain	HEALTH
1.5 Study cycle	LICENCE
1.6 Study program/ Qualification	Medicine

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME		NEUROSURGERY		
2.2. Discipline code		MED5105.2		
2.3 The holder of course activities		Lecturer Margaritescu Otilia Clara		
2.4 The holder of seminar activities		Lecturer Margaritescu Otilia Clara		
2.5. Academic degree		Lecturer		
2.6. Employment (base norm/associate)		Base norm		
2.7. Year of study	V	2.8. Semester	I	2.9. Course type (content) 2.10. Regime of discipline (compulsoriness)
				CSD

3. THE ESTIMATED TOTAL TIME (teaching hours per semester)

3.1 Number of hours per week	1.1	3.2 From which course	0.5	3.3 seminary/laboratory	0.6
3.4 Total hours in curriculum	15.4	3.5 From which course	7	3.6 seminary/laboratory	8.4
Time found distribution (hours)					
Study from manual, course support, bibliography, and notes					2
Additional documentation in the library, specialized electronic platforms and, on the field					2
Training seminars / labs, homework, reports, portfolios, and essays					2
Tutoring					2
Examinations					1
Other activities, counselling, student scientific programs					0.6
3.7 Total hours of individual study	9.6				
3.9 Total hours per semester	25				
3.10 Number of credits ¹	1				

4. PREREQUISITES (where appropriate)

4.1 curriculum	Students need to have solid knowledge of anatomy, physiology, medical and surgical semiology
4.2 competency	

5. CONDITIONS (where appropriate)

5.1. of course deployment	- individual reading homework prior to course, Power Point presentation with interactive discussions, drafts of diagnostic algorithms, treatment options or surgical procedures
5.2. of seminary/ lab deployment	Preparing homework prior to clinical seminary

6. SPECIFIC COMPETENCES ACCRUED

PROFESSIONAL COMPETENCES	<p>C1 – to identify the illness status and to establish the correct diagnosis of the disease/diseases,</p> <p>C2 – preparing and applying an adequate treatment plan for the identified condition(s).</p> <p>C3 – assessing correctly the risk of disease or the context of the occurrence of an individual/collective disease, followed by the selection and implementation of adequate prophylactic measures.</p> <p>C4 – approaching the health/ill-health issues from the point of view of the characteristics of the community, in direct relation with the social, economic and/or cultural conditions of the respective community,</p> <p>C5 – to initiate and perform scientific and/or training activity in the respective domain of competence.</p>
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TRANSVERSAL COMPETENCES	<p>CT1 Autonomy and responsibility</p> <ul style="list-style-type: none"> • development of moral guidelines, training of professional and civic attitudes that allow students to be correct, honest, non-confrontational, cooperative, sympathetic to suffering, ready to help people, interested to contribute to community development; • to recognize, to respect and to contribute to development of moral values and professional ethics; • to learn to recognize an issue when it arises and to offer solutions for solving it. <p>CT2 Social interactions</p> <ul style="list-style-type: none"> • to recognize and to respect diversity and multiculturalism; • to have or to learn the development of teamwork skills, • to communicate orally or in writing the requirements, method of work, the results and to interact with team members, • to be involved in volunteering, to be aware of the community key issues. <p>CT3 Personal and professional development</p> <ul style="list-style-type: none"> • to be ready for lifelong learning, • to appreciate the necessity of individual study as the basis for personal autonomy and professional development, • to exploit his/her own creative potential in collective activities, • to know how to use the information and communication technology.
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7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the discipline	<ul style="list-style-type: none"> - to achieve fundamental knowledge about the etiopathogeny, physiopathology, anatomical pathology, clinical signs, imagistic and lab explorations, diagnosis and treatment of different neurosurgical diseases, - to be able to establish both the positive and differential diagnosis of a certain neurosurgical pathology, - to be able to decide and to apply the treatment in case of a neurosurgical emergency.
7.2 The specific objectives of the discipline	<p>Through a curricula adapted to European quality standards, using teaching and assessment methods and involving students in the clinical activity of a surgical department, the discipline of general surgery aims to train cognitive skills, habits and attitudes that form the foundation of any preventive, diagnostic, curative or rehabilitation medical act. Upon completion of the discipline, the student will be able to acquire:</p> <ol style="list-style-type: none"> 1. Cognitive skills, which will enable: <ul style="list-style-type: none"> - to have the necessary knowledge and skills needed for the diagnosis of neurosurgical disorders, - to establish and to apply the correct therapeutic algorithm for neurosurgical indication disorders, - to know the preoperative preparation methods of patients requiring neurosurgery intervention - to monitor the postoperative status of the patient and to apply the therapeutic algorithm in case of a postoperative complication. 2. Practical skills <ul style="list-style-type: none"> - to perform general and local neurological examination, - to know the clinical signs of neurosurgical diseases, - to suture a superficial wound, - to know how to conduct a proper dressing, 3. Attitudes <ul style="list-style-type: none"> - to be open to acquire moral guidelines, training of professional and civic attitudes allowing students to be honest, non-confrontational, cooperative, sympathetic to suffering, ready to help people, interested in community development, - to know, respect and contribute to development of moral values and professional status, - to learn to recognize an arising issue and to provide solutions for solving it, - to have respect for diversity and multiculturalism, - to communicate orally and in writing the requirements, method of work, the results and to interact with team members, - to be ready for lifelong learning, - to appreciate the necessity of individual study as the basis for personal autonomy and professional development, - to exploit his/her own creative potential in collective activities, - to know how to use the information and communication technology, - to initiate and to be involved in discipline educational and scientific activities.

8. CONTENTS

8.1 Course (content units)	Hours
1. Head trauma	1
2. Spinal cord trauma	1
3. Degenerative disease	1
4. Brain tumors	1
5. Vascular disorders	1
6. Paediatric neurosurgical pathology	1
7. Infection disorders	1
TOTAL	7
BIBLIOGRAPHY	
<ol style="list-style-type: none"> 1. Christopher J. Madden, Jack Jallo, Neurotrauma, Oxford University Press, 2020, ISBN: 9780190936259 2. Dr Peter Nakaji, Dr Michael Levitt, Cerebrovascular Neurosurgery, Oxford University Press, 2020 3. Mark S Greenberg-Handbook of Neurosurgery, 11 th edition, Ed. Thieme, 2019 4. Neil Kitchen, Richard Ellenbogen, Laligam Sekhar. Principles of Neurological Surgery. 4th Edition, Ed. Elsevier, 2018, ISBN: 9780323431408 5. Christopher Loftus. Neurosurgical Emergencies, Ed. Thieme, 2017, ISBN: 9781626233331. 6. Michael Forsting, MR Neuroimaging Brain, Spine and Peripheral Nerves. Ed. Thieme, 1st Edition, 2017, ISBN-10: 9783132026810H. 7. Richard Winn, Youmans and Winn Neurological Surgery, Ed. Elsevier, Vol. 1, 7th edition, 2016, ISBN-13: 9780323287821 	
8.2 Practical work (topics / themes)	
1. Clinical, Neurological and Neurosurgical examination	1,4
2. Paraclinic diagnostic in Neurosurgery	1
3. Case report-trauma	1
4. Case report-degenerative pathology	1
5. Case report- tumoral pathology	1,5
6. Case report- vascular pathology	1,5
7. Case report- infections pathology	1
TOTAL	8,4
BIBLIOGRAPHY	
<ol style="list-style-type: none"> 1. Christopher J. Madden, Jack Jallo, Neurotrauma, Oxford University Press, 2020, ISBN: 9780190936259 2. Dr Peter Nakaji, Dr Michael Levitt, Cerebrovascular Neurosurgery, Oxford University Press, 2020 3. Mark S Greenberg-Handbook of Neurosurgery, 11 th edition, Ed. Thieme, 2019 4. Neil Kitchen, Richard Ellenbogen, Laligam Sekhar. Principles of Neurological Surgery. 4th Edition, Ed. Elsevier, 2018, ISBN: 9780323431408 5. Christopher Loftus. Neurosurgical Emergencies, Ed. Thieme, 2017, ISBN: 9781626233331. 6. Michael Forsting, MR Neuroimaging Brain, Spine and Peripheral Nerves. Ed. Thieme, 1st Edition, 2017, ISBN-10: 9783132026810H. 7. Richard Winn, Youmans and Winn Neurological Surgery, Ed. Elsevier, Vol. 1, 7th edition, 2016, ISBN-13: 9780323287821 	

9. CORROBORATING THE DISCIPLINE CONTENT WITH THE EXPECTATIONS OF EPISTEMIC COMMUNITY REPRESENTATIVES, PROFESSIONAL ASSOCIATIONS AND EMPLOYEE REPRESENTATIVES RELATING TO THIS PROGRAM

- Neurosurgery as a discipline is a domain discipline, necessary for a student to become a medical doctor.
- The knowledge, practical skills and attitudes learned represent the basis for other surgical disorders that will be detailed at different surgical profile disciplines and the basis for understanding and learning any preventive diagnostic, curative or rehabilitation medical act.

10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources: exposure, interactive lecture, teamwork, problem-based learning etc.
Course	Lecture debate, questioning
Practical work	Practical applications, case-study, projects
Individual study	Prior course and clinical seminary

In case of special situations (alert states, emergencies, other types of situations that limit the physical presence of people) the activity can be carried out online using computer platforms approved by the faculty/university. The online education process will be adapted appropriate to ensure the fulfilment of all the objectives provided in the discipline sheet

11. RECOVERY PROGRAM					
Absences recoveries	No. absences that can recover	Location of deployment	Period	In charge	Scheduling of topics
		Neurosurgery	Last week of the	Lecturer	Chronological, 2

	3	Department	semester	Margaritescu Otilia Clara	topics/day
Schedule consultations / Students' Scientific Program	-	Neurosurgery Department	weekly	Lecturer Margaritescu Otilia Clara	Topic of the week
Program for students poorly trained	-	Neurosurgery Department	weekly	Lecturer Margaritescu Otilia Clara	Topic of the week
12. ASSESMENT					
Activity	Types of assesment		Method of evaluation		Percentage from final grade
Lecture	Formative assessment through debates and surveys during the semester Summative assessment during the exam		Multiple Choice Questions Answering System (MCQ)/MCQ with the help of the IT platform in the online version.		80%
Practical work	Periodic assessment during the semester Summative assesment during the exam		Clinical evaluation simultaneously with the MCQs / with the help of the video platform in the online version.		15%
Periodic assesment					
Assesment of individual activities					5%
Minimum performance standard					At least 50% for each component of the evaluation
13. GUIDANCE AND COUNSELLING PROGRAMS					
Professional guidance and counselling programs (2 hours/monthly)					
Scheduling the hours			Location	In charge	
Every Friday between 10-12			1 st Surgical Department	Lecturer Margaritescu Otilia Clara	

Endorsement date in the department: 29.09.2022

Department Director,
Prof. Valeriu ȘURLIN

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline holder,
Lecturer Otilia Clara MĂRGĂRITESCU