

DISCIPLINE SHEET

NEUROSCIENCES

2022- 2023

1. DATA ABOUT THE STUDY PROGRAM

1.1 Institution of higher education	UNIVERSITY OF MEDICINE AND PHARMACY CRAIOVA
1.2 Faculty	MEDICINE
1.3 Department	2
1.4 Study domain	HEALTH
1.5 Study cycle	LICENSE
1.6 Study program/Qualification	MEDICINE

2. DATA ABOUT THE DISCIPLINE

2.1 DISCIPLINE NAME	NEUROSCIENCES		
2.2. Discipline code	MED 2215.2		
2.3 The holder of course activities	Dincă Eduard Bogdan		
2.4 The holder of seminar activities	-		
2.5. Academic Degree	Lecturer		
2.6. Employment (base norm/associate)	Base norm		
2.7. Year of study	II	2.8. Semester	II
		2.9. Course type(content)	CRD
		2.10. Regime of discipline(mandatory)	

3. TOTAL ESTIMATED TIME (teaching hours per semester)

3.1 Number of hours per week	1	3.2 From which - course	1	3.3 seminary/laboratory	-
3.4 Total hours in curriculum	14	3.5 From which - course	14	3.6 seminary/laboratory	-
Time found distribution(hours):					
Study by manual, course support, bibliography and notes					12
Additional documentation in the library ,specialized electronic platforms and,on the field					12
Training seminars/labs, homework, reports, portfolios and essays					-
Tutoring					-
Examinations					3
Other activities...counselling, student scientific programs					9
3.7 Total hours of individual study	36				
3.9 Total hours per semester	50				
3.10 Number of credits	2				

4. PRECONDITIONS (wherever needed)

4.1 curriculum	Students must have a good knowledge of physiology, anatomy, biochemistry, biophysics, cell biology
4.2 competency	-

5. CONDITIONS (wherever needed)

5.1. of course deployment	Lecture Hall with projector / online
5.2. of seminary/lab deployment	-

6. SPECIFIC SKILLS

PROFESSIONAL COMPETENCES	<p>C1 – Identifying the state of ill-health and accurately diagnosing the condition(s).</p> <p>C5 – Initiating and performing scientific research and-or training activity in the respective domain of competence</p>
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TRANSVERSAL COMPETENCES	<p>CT1. Autonomy and accountability</p> <ul style="list-style-type: none"> • acquisition of moral guidelines, training of professional and civic attitudes that enable students to be fair, honest, non-confrontational, cooperative and understanding, available to help people interested in the developer community; • to know, respect and contribute to the development of moral values and professional ethics; • to learn to recognize when a problem arises and provide responsible solutions to solve them. <p>CT2. Social interaction</p> <ul style="list-style-type: none"> • recognize and have respect for diversity and multiculturalism; • have or learn to develop teamwork skills; • communicate with the team; • get involved in volunteering, knowing the essential problems of the community. <p>CT3. Personal and professional development</p> <ul style="list-style-type: none"> • to be open to lifelong learning, • to appreciate the need for individual study as the basis of personal autonomy and professional development; • to exploit to the optimum their potential and creative collective activities; • to know how to use information and communication technology.
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7. DISCIPLINE OBJECTIVES

7.1 The general objective of the discipline	The main goal of NEUROSCIENCES, which is an optional discipline, is to offer to the students a thorough knowledge about the integrative function of the nervous system.
7.2 The specific objectives of the discipline	<p>NEUROSCIENCES, as discipline, is trying to form cognitive abilities, attitudes and skills that will allow to the students to understand fundamentals of neuroanatomy, cellular and molecular neurophysiology, neurophysiology of systems and behavior, developmental and clinical neurosciences.</p> <p>After taking the course, the students will be able to acquire:</p> <p>COGNITIVE ABILITIES which will allow to:</p> <ul style="list-style-type: none"> • be able to interpret the behavioral signs associated with neurological changes • to know the principles of brain investigation methods • be able to make predictions about behavioral changes associated with neurological changes • be able to adapt the methods of behavioral intervention to certain brain syndromes; <p>ATTITUDES</p> <ul style="list-style-type: none"> • to be open, to acquiring moral guidelines, training of professional and civic attitudes that enable students to be fair, honest, non-confrontational, cooperative and understanding in the face of suffering, available to help people interested in the developer community; • to know, respect and contribute to the development of moral values and professional ethics; • learn to recognize when a problem arises and provide responsible solutions to solve them. • recognize and have respect for diversity and multiculturalism ; • have or learn to develop teamwork skills; • to communicate orally and in writing the requirements ,work method,the results obtained,to consult the results with the team; • to be involved in volunteering,to know the main problems of the community • to be open to lifelong learning • to understand the need for individual study as the basis of personal autonomy and professional development ; • exploit their potential to the optimum and creative collective activities ; • know how to use information and communication technology. • To have initiative,to involve itself in educational and scientific activities of the discipline.

8. CONTENTS

8.1 Course (content units)		Hours
1.	Elements of neuroanatomy and neurobiology	2
2.	Development of the nervous system	2
3.	Methodology in neuroscience	2
4.	The neurobiological basis of visual perception and visual-spatial attention	2
5.	The neurobiological basis of memory and sleep	2
6.	The neurobiological basis of language and emotion	2
7.	The neurobiological basis of motor coordination	2
BIBLIOGRAPHY		
1. The course tough during the semestre		
2. https://www.jneurosci.org/		

3. Neuroscience, 5th Edition, Fundamentals for Rehabilitation, Author: Laurie Lundy-Ekman
4. Neurosciences - From Molecule to Behavior: a University Textbook, C. Giovanni Galizia, Pierre-Marie Lledo, 2013

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

- Neurosciences is an optional discipline, very important for a student to become a doctor.
- Knowledge, practical skills and attitudes learned in this discipline provides the basis for the study of pathological processes which will be detailed in other disciplines and forms the basis for understanding and learning of any medical act preventive, diagnostic, curative and rehabilitation.

10. METHODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources: lectures, interactive group work, learning problems / projects etc. Lectures, analysis, synthesis, comparison, generalization, learning in order to achieve interactive feedback, explaining the problems highlighted by students, consultations, multimedia presentations. In case of special situations (alert states, emergency states, other types of situations that limit the physical presence of students) the activity can be carried out online using computer platforms approved by the faculty / university. The online education process will be adapted accordingly to ensure the fulfilment of all the objectives provided in the discipline sheet.
Course	Lectures, interactive group work, learning problems / for online activities lectures will be adapted using computer platform of the university
Practical work	-
Individual study	Before each lecture

11. PROGRAM DE RECUPERARE

Absences recoveries	No. absences that can recover	Place of deployment	Period	In charge	Lecture
	-	-	-	-	-
Schedule consultations / Students' Scientific Circle	1 hours/week	Physiology - Neurosciences laboratory/ online	Weekly	The teacher responsible for course	Current lecture
Program for students poorly trained	1 hours/week	Physiology - Neurosciences laboratory/ online	Weekly	The teacher responsible for course	According to student issue

12. ASSESMENT

Activity	Types of assesment	Method of evaluation	Percentage from final grade
Lecture	Formative assesment during the semester Summative assesment during the exam	Written exam/ using online platform	90%
Practical work	-	-	-
Periodic assesment			-
Assement of individual activities			10%
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	Place of deployment	In charge
Every first Friday of the month	Physiology - Neurosciences laboratory/ online	Lecture holders

Endorsement date in the department: 27.09.2022

Department Director,
Prof. Eugen OSIAC

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline holder,
Sef lucrări dr. Eduard Bogdan Dincă