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	I
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		HISTOLOGY				
2.2. Discipline code		MED21204				
2.3 The holder of course activities	s	MOGOANTĂ LAURENȚIU, PIRICI NICOLAE DANIEL, BUSUIOC				
		CRISTINA, MATEESCU GAROFITA-OLIVIA, OPREA BOGDAN				
2.4 The holder of seminar activiti	es	MOGOANTĂ LAURENȚIU, PIRICI NICOLAE DANIEL, MATEESCU				
GAROFIȚA, BUSUIOC CRISTINA, OPREA BOGDAN, MATEI MARIU						
ISTRATE-OFITERU ANCA-MARIA, IOVAN LARISA, ROSU GABRIE						
CAMELIA, LILIAC ILONA MIHAELA						
2.5.Academic degree		Professor, Associate Professor, Lecturer, Teaching Assistant				
2.6. Employment (base norm/associate) Base norm						
2.7. Year of study II 2.8.	Semeste	r I/II 2.9. Course type (content) 2.10. Regime of discipline (compulsoriness) CFD				

3. TOTAL ESTIMATED TIME (teaching hours per semester) – Semester I

3.1 Number of hours per week	5	From which 3.2- course	2	3.3 seminary/laboratory	3
3.4 Total hours in curriculum	70	From which 3.5- course	28	3.6 seminary/laboratory	42
Time plan distribution (hours)					-
Study by manual, course support, bibliography,	, and	notes			15
Additional documentation in the library, specialized electronic platforms and, on the field				15	
Training seminars / labs, homework, reports, portfolios, and essays				15	
Tutoring				5	
Examinations				3	
Other activities, counselling, student circles				2	

3.7 Total hours of individual study	55
3.9 Total hours per semester	125
3.10 Number of credits	5

TOTAL ESTIMATED TIME (teaching hours per semester) – Semester II

3.1 Number of hours per week	5	From which 3.2- course	2	3.3 seminary/laboratory	3
3.4 Total hours in curriculum	70	From which 3.5- course	28	3.6 seminary/laboratory	42
Time plan distribution (hours)					-
Study by manual, course support, bibliograph	y, and	notes			15
Additional documentation in the library, specialized electronic platforms and, on the field			15		
Training seminars / labs, homework, reports, portfolios, and essays				15	
Tutoring					5
Examinations				2	
Other activities, counselling, student circles					3
3.7 Total hours of individual study 55					

3.7 Total hours of individual study	55
3.9 Total hours per semester	125
3.10 Number of credits	5

4. PREREQUISITES (where appropriate)

4.1 curriculum	The students must have solid knowledge on Anatomy, Embryology, Cell and Molecular
	Biology, Physiology, Physiopathology, Biostatistics
4.2 competency	-

5. CONDITIONS (where appropriate)

5.1. of course deployment	The course will be held weekly in "prof. Florin Bogdan" auditory, old building of the Faculty of Medicine – Is t floor / online teaching.
5.2. of seminary/ lab deployment	Practical assignments take place in practical work room no 1 (room 136) / online teaching.

6. SPECIFIC COMPETENCES ACCRUED

PROFESSIONAL COMPETENCES

TRANSVERSAL COMPETENCES

C4 - To address to health issues / illness from the perspective of particular community specifics, related to the social, economic and / or its cultural aspects.

To participate through morpho-clinical correlations in protecting and improving the health of the population, in facilitating the implementation of basic morphological notions in triggering actions aimed at protecting health in groups considered at risk;

C5 - Initiation and development of a scientific and / or formative research activity in the field of optical microscopy.

CT1. Autonomy and responsibility

- to correlate the acquired histological notions and to integrate them in the clinical context
- to establish the diagnosis of tissue and organ in a normal context
- to apply the usual histological and histochemical techniques
- to apply, solve, develop scientific notions and concepts,
- to have the knowledge appropriate to the professional profile,

CT2. Social interaction;

- to be able to recognize and respect diversity and multiculturalism;
- to have and/or to learn to develop teamwork skills;
- to communicate orally and in writing accordingly to the required working methods, results, consulting with a team:

CT3. Personal and professional development

- to be open to lifelong learning and development,
- to be aware of the need for individual study, thus creating the basis for personal autonomy and professional development;
- to capitalize optimally and creatively in the collective activities one's own potential;
- to know the types of medical scientific papers and to know the specific methods by which they can be performed
- to deepen the use of the computer for documentation, for writing a scientific paper and for analyzing the results of a scientific research
- to know and respect the norms of medical ethics and deontology

7. DISCIPLINE OBJECTIVES (based on the grid of specific competences acquired)

7.1 The general objective of the	- acquiring general knowledge on the normal microscopic features of tissues and
discipline	organs, in order to understand microscopic changes in pathological cases, organic
	support and the appearance of clinical signs and symptoms
7.2 The specific objectives of the	- acquisition of specific knowledge related to the microscopic structure of tissues
discipline	and organs

8. CONTENTS

8.1 Course (content units)	No of hours
Ist Semester	
Tissue - definition, examples	2
- Tissue differentiation and histocompatibility	
- Primary tissues	
Epithelial Tissues	6
- general characteristics of epitheliums, histogenesis, classification	
- microscopic structure	
- covering epithelium	
- glandular epithelium	
Connective Tissues	4
- histogenesis, microscopic organisation and fibrilogenesis	
- classification and histophysiology of the connective tissue	
- structural elements of the connective tissue	
- varieties of connective tissue	
Blood and haematopoiesis	4
- red blood cell, white blood cell, thrombocytes	
- haematopoiesis	
Cartilaginous tissue; Bone (system and tissue)	4
- histogenesis, microscopic organization, types of cartilaginous tissue	
- histogenesis, microscopic organization, types of bone tissue	
- joints, ossification	

- contraction system, energy production and the coupling of excitation-contraction - histogenesis and microscopic organization of the muscle - types of muscle (smooth muscle, striated skeletal muscle, striated cardiae muscle). Nervous Tissue - histogenesis, the nervous cell, glial cell, the synapse - tissular bases of the organization of the peripheral nervous system I-nd semester Nervous system - the organisation of the CNS; grey matter, white matter - blood brain barrier; meninges, chroriof plexus cerebral and cerebellar cortices cellular bases of the relationship between nervous and endocrine system Hematopoietic and lymphopoietic organs - structure and histophysiology of the bone marrow, lymph node, thymus, spleen, tonsil, Payer plates, eccum Internal secreting glands - hypothalamus-hypophysis complex, epiphysis, thyroid gland, parathyroids, suprarenals, endocrine pancreas, diffluse endocrine system (structure, ultrastructure, histophysiology) Cardiovascular system - histogenesis, structure and ultra-structure of the heart - blood vessels (arteries, veins, capillaries) and lymphaties Urinary system - histogenesis, structure and ultra-structure of the kidney - histophysiology of the kidney - histophysiology of the kidney - structure, ultra-structure and histophysiology of the respiratory tract - respiratory paths and the olfactive mucosa - histogenesis and particularities of the respiratory system in children Digestive system - the mouth, tongue, taste buds, teeth, ocsophagus stomach, small intestine, bowl, endocrine system of the digestive tract - sailvary glands, excerine pancreas the liver and biliary pathways: structure, ultrastructure and histophysiology Genital system - histogenesis, tissue and cell organisation - male genital system: testicle, genital paths, annex glands, penis - female genital system: testicle, genital paths, annex glands, penis - female genital system: the ovary, salpins, tuerus, vagina, mammary gland, the placenta Skin and its appendages - structure, ultra-str	M = 1/2	4
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- the olfactive mucosa		
the toste buds	- the olfactive mucosa	
- the taste buds	- the taste buds	

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8.2 Practical assignments (topics / themes)	hours
Ist semester	
Histological samples. Routine and special histological techniques	3
The use of microscope in histology. Types of microscopes.	3
The cell as a tissue component. Cell differentiation and apoptosis	3
Covering epithelial tissue	3
Glandular epithelial tissue	3
Connective tissue. Components	3
Types of connective tissue	3
Mucosae and serosae	3
The blood and blood cells	3
Blood smear technique. Leucocyte formula	3
Haematopoiesis	3
Bone tissue	3
Cartilaginous tissue (osteogenesis and joints)	3
Muscle tissues	3
II-nd semester	
Nervous system	3
Cardiovascular system	3
Hemato and lymphopoietic organs	3
Endocrine glands	3
Urinary system	3
Respiratory system	3
Upper digestive tube	3
Lower digestive tube	3
Annex glands of the digestive tube	3
Male genital system	3
Female genital system. The ovary	3
Female genital system. The genital paths	3
The skin	3
Sense organs	3

BIBLIOGRAPHY

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

Histology is a compulsory discipline for a student to be able to have complete information on the structure of tissues and organs, necessary for subsequent correlation with the information of professional interest.

The knowledge and practical skills learned in this discipline provide the necessary support for the student to be able to conceive, write, analyze and publish a scientific paper in the "peer review" system.

10. MHETODOLOGICAL LANDMARKS

Types of activity	Teaching Techniques / learning materials and resources:					
Course	The course is taught by modern methods using video projection, diagrams, drawings and microscopic images suggestive for the topics covered. In case of special situations (alert states, emergency states, 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 accordingly to ensure the fulfillment of all the objectives set out in the subject sheet.					
Practical work	Practical assignments are supported by an interactive form of teaching which follows students' participation in the theoretical debates and practical views on histological structures and their correlation with the processes of physiology and pathophysiology. Practical assignments begin with a seminar in which students are tested for their knowledge gained from courses and individual training program, continues to exemplify concepts through images transmitted through suitable microscopic slides and projectors, aiming at motivating the students' understanding towards the microscopic morphology. It continues with microscopic examination of histological preparations which stimulates the curiosity of students to identify cells, tissues and organs					
Individual study	It encourages individual study forming a basis to initiate discussion on the topic / next lp.					

11. RECOVERY PROGRAM						
Absences recoveries	No. absences that can be recovered	Place of deployment	Period	In charge	Scheduling of topics	
	5	Official department location / online teaching	The last week of the semester	prof. L. Mogoantă	Depending on the practical assignments that need to be recovered	
Consultations schedule	2 hours weekly / teaching personal	Official department location / online teaching	weekly	All teaching personal	Depending on the requirements of the students	
Students' debating society	2 hours / week/ each Friday	Official department location / online teaching	weekly	All teaching personal	Depending on the schedule of research activities	

Program for poorly trained students	2 hours / week	Official department location / online teaching	weekly	All teaching personal	Is based on the requirements of the students		
12. ASSESME	NT						
Activity type	Assessment form		Assessment methods		Percentage of final grade		
Course	type tests and su semester	ation through grid irvey during the ssment during the	Written exam or multichoice system with the help of the informatics system in the online version		60%		
Practical work	semester	ion during the uation during the	Oral exam or with the help of the video platform in the online version		20%		
Periodic assesment	Periodic assessments of the work	nent during the course and practical			10%		
Assesment of individual activity					10%		
Minimum performance standard	At least 50% for each component of the evaluation						
		LLING PROGRA					
	idance and coun	selling programs (2			Т		
Schedule			activity	In charge			
Last Friday of every month		Official d	lepartment location	All teaching personal			

Endorsement date in the department: 30.09.2022

Department Director, Coordinator of study program, Discipline holder,
Prof. Ion MÎNDRILĂ Prof. Marius Eugen CIUREA Prof. Laurențiu MOGOANTĂ