DISCIPLINE SHEET

ACADEMIC YEAR

2024 – 2025

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	1
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	**HUMAN ANATOMY**				
2.2. Discipline code	**MED2101**				
2.3 The holder of course activities	Mindrila Ion, Melinte Petru Razvan, Marinaș Cristian, Mesina Mihaela, Taisescu Oana, Pirici Ionica, Capitanescu Bogdan, Margineanu Ovidiu Marcel, Sas Lorena, Cercelaru Liliana, Stanescu Radu				
2.4 The holder of seminar activities	Mindrila Ion, Melinte Petru Razvan, Taisescu Oana, Pirici Ionica, Marinaș Cristian, Mesina Mihaela, Capitanescu Bogdan, Margineanu Ovidiu Marcel, Sas Lorena, Stanescu Radu, Cercelaru Liliana, Sirbuleț Carmen, Comanescu Cristina, Predoi Cristina, Enache Irina				
2.5 Academic degree	Professor, Associate Professor ,Lecturer, Universitar Asistent				
2.6. Employment (base norm/associate)	Base norm				
2.7. Year of study	**2**	2.8. Semester	**I**	2.9. Course type (content) 2.10. Regime of discipline (compulsoriness)	**CFD**

3. TOTAL ESTIMATED TIME (teaching hours per semester)

3.1 Number of hours per week	**6**	From witch - course	**2**	seminary/laboratory	**4**
3.4 Total hours in curriculum	**84**	From witch - course	**28**	seminary/laboratory	**56**
Time found distribution (hours)					
Study by manual, course support, bibliography, and notes					**20**
Additional documentation in the library, specialized electronic platforms and, on the field					**20**
Training seminars / labs, homework, reports, portfolios, and essays					**30**
Tutoring					**2**
Examinations					**7**
Other activities... counselling, student circles					**12**

3.7 Total hours of individual study	**91**
3.9 Total hours per semester	**175**
3.10 Number of credits	**7**

4. PREREQUISITES (where appropriate)

4.1 curriculum	- The students have to have general background knowledges of anatomy and cell biology
4.2 competency	-

5. CONDITIONS (where appropriate)

5.1. of curse deployment	Lecture Hall with projector / online Preparing in advance by individual study (teaching material on the discipline site)
5.2. of seminary/ lab deployment	Anatomy Lab / online Preparing in advance by individual study

6. SPECIFIC COMPETENCES ACCRUED

PROFESSIONAL COMPETENCES

C1. Knowledge, understanding and use of the specific language for:
- to know how to use the concepts of general and systemic anatomy in clinical context
- identifying the state of ill-health and accurately diagnosing the condition(s)

C4 – To address health issues/illness from the perspective of community specifics, directly related to the social, economic and/or the cultural specificity.

C5. Creativity and innovation:
- to initiate and finalize scientific research and / or formative activities in the field of competence

TRANSVERSAL COMPETENCES	**CT1**. Autonomy and responsibility - acquiring moral guidelines, formation of professional and civic attitudes that enable students to be fair, honest, peaceful, cooperative, sympathetic to the suffering, available to help people, interested of community development; - to know, respect and contribute to the development of moral values and professional ethics; - learning to recognize when a problem arises and provide responsible solutions to solve it; **CT2**. Social interaction - to recognize and respect diversity and multiculturalism; - to have or learn to develop teamwork skills; - to communicate requirements orally and in writing, working methods, results, consult with the team; - to get involved in volunteering, to know the essential problems of the community. **CT3**. Personal and professional development - to be open to lifelong learning; - to realize the need for individual study as the basis of personal autonomy and professional development; - to optimally and creatively exploit their potential in the collective activities; - know how to use information and communication technology.

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

7.1 The general objective of the discipline	Acquiring knowledge needed to understand and use academic language of international anatomical terminology Learning concepts underlying anatomic curricular practices and medical manoeuvres
7.2 The specific objectives of the discipline	Upon completion of discipline the student will be able to: - Define the fundamental processes of formation and development of the of trunk viscera - Recognize and define descriptive and functional elements of the digestive, respiratory, circulatory and urogenital systems - To work as a team to dissect and identify the vascular, nervous and muscular elements of the trunk - Use virtual anatomy for anatomical knowledge improvement - To integrate theoretical and practical knowledge gained in the study of Anatomy with those obtained from other fundamental disciplines and use them as a platform for clinical training; - Communicate clearly, rigorous knowledge gained or results; - Issue hypotheses and verify by experiment - 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 - Learn to recognize when a problem arises and provide responsible solutions to solve them. - To recognize and have respect for diversity and multiculturalism; - Communicate orally and in writing requirements, working methods, results, consult with the team; - To get involved in volunteering, to know the essential problems of the community. - To realize the need for individual study as the basis of personal autonomy and professional development; - The ability to use information and communication technology; - Take initiative to engage in educational activities and scientific discipline

8. CONTENTS

8.1 Course (content units)	Nr. ore
AO1. Special embryology: respiratory system development. Functional anatomy of the lung	**2**
AO2. Special embryology: heart development	**2**
AO3. Functional anatomy of the heart	**2**
AO4. Abdominal cavity divisions. Peritoneum and peritoneal cavity	**2**
AO5. Special embryology: gastrointestinal system development	**2**
AO6. Functional anatomy of the liver	**2**
AO7. Functional anatomy of the stomach, duodenum and pancreas	**2**
AO8. Functional anatomy of the small and large intestine	**2**
AO9. Special embryology: urogenital system development	**2**
AO10. Functional anatomy of the kidney	**2**
AO11. Functional anatomy of the genital system	**2**
AO12. Vascular supply of the abdominal and pelvic viscera. Portacaval shunts.	**2**

AO13. Abdomino-pelvine autonomic system	**2**
AO14. Lymphatic drainage of the trunk viscera. Thymus and spleen.	**2**
BIBLIOGRAPHY Cursurile şi lucrările practice publicate pe site-ul disciplinei Victor Papilian, Anatomia Omului, vol 2, Viorel Ranga, Anatomia Omului, vol3, vol6 Langman Embriologie Medicala	
8.2 Practical work (topics / themes)	
AO.LP1. The trunk overview: limits, orientation lines, anatomical marks. Trunk walls. Trunk division. Diaphragma muscle. Mediastinal limits and divisions.	**2**
AO.LP2. Trachea and lung airways. The lungs: external aspects, relations, lung segments, lung vascular supply and lung innervation. Pleurae.	**2**
AO.LP3. Heart: external aspects, relations. Pericardium and pericardia sinuses. Large vessels at the basis of the heart. Heart vascular supply and inervation.	**2**
AO.LP4. Heart cavity and heart valves	**2**
AO.LP5. Mediastinal content: thoracic aorta, esophagus, thoracic duct, azygos veins and thoracic sympathetic system.	**2**
Evaluation I. Thorax	**2**
AO.LP6. Abdominal cavity: division, peritoneum and peritoneal formations. Supramesocolic space: limits, content. Liver: external features, relations, segmentation, vascular supply and innervation. Extrahepatic biliary ducts.	**2**
AO.LP7. Abdominal esophagus: relations, vascular supply and innervation. Stomach: external features, relations, structure, vascular supply and innervation. Omental bursa. Spleen. Celiac trunk.	**2**
AO.LP8. Duodenum and pancreas: external and internal aspects, relations, structure, vascular supply and innervation.	**2**
AO.LP9. Mesentery. Jejunum-ileum: external and internal aspects, relations, structure, vascular supply and innervation.	**2**
AO.LP10. Caecum and vermiform appendix: external and internal aspects, relations, structure, vascular supply and innervation. Colon and its mesentery: external and internal aspects, relations, structure, vascular supply and innervation.	**2**
AO.LP11. Abdominal aorta. Inferior vena cava. Lombar and abdominal parts of the sympathetic system. Lombar plexus. Lymphatic drainage of the abdominal viscera. Portacaval shunts.	**2**
Evaluation II. Abdomen	**2**
AO.LP12. Abdominopelvic cavity subdivisions. Extra peritoneal spaces. Retroperitoneal spaces: limits, content. Renal space. Kidneye relations.	**2**
AO.LP13. Kidneys: external features, structure, blood supplying and innervation. Urinary excretory pathways. Suprarenal glands	**2**
AO.LP14. Osseous pelvis: structure, narrowing, internal and external pelvimetry. Pelvis muscles (anal elevators, coccigian, internal obturator): insertions, traject, relations, innervations. Sacrococcigian plexus	**2**
AO.LP15. Rectum and urinary blader: external features, relations, structure, vascular supply and inervation	**2**
AO.LP16. Ovary and uterine tube: external features, relations, structure, vascular supply and innervation	**2**
AO.LP17. Uterus, vagina and broad ligament of the uterus	**2**
AO.LP18. Pelvisubperitoneal space in female: limits, content and pelvic peritoneum. Iliac internal artery and vein: origin, traject and branches.	**2**
AO.LP19. Perineum in female. Vulva	**2**
Evaluation III Female pelvis	**2**
AO.LP20. Testis. Scrotum. Epididymus. Scrotal part of deferent duct.	**2**
AO.LP21. Inguinal canal. Spermatic cord. Iliac part of deferent duct. Pelvine part of deferent duct. Ejaculatory ducts. Seminal vesicles	**2**
AO.LP22. Prostate, male urethra and penis: external features, relations, structure, vascular supply and innervation.	**2**
AO.LP23. Pelvisubperitoneal space in male	**2**
AO.LP24. Perineum in male. Ischiorectal fossa	**2**
Evaluation IV Male pelvis	**2**
BIBLIOGRAPHY Cursurile şi lucrările practice publicate pe site-ul disciplinei Victor Papilian, Anatomia Omului, vol 2, Viorel Ranga, Anatomia Omului, vol3, vol6 Langman Embriologie Medicala	

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

- Anatomy is a fundamental discipline, mandatory for training of future doctors
- 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. MHETODOLOGICAL LANDMARKS

Types of activity*	Teaching Techniques / learning materials and resources: exposition, interactive course, group work, learning through problems / projects
Course	Are used the following combined methods: explanation, lecture, examining conversation, debate, problem solving
Practical work	Are used the following combined methods: Dissection, prossection, observation method, problem solving, heuristic conversation
Individual study	Written and electronic support that provides the information needed to be known before the course or laboratory
*In case of special situations (alert states, emergency states, other types of situations that limit the physical presence of the people) the activity can be carried out online using on-line platforms approved by the faculty/university. The online education process will be adapted accordingly to ensure the fulfillment of all the objectives provided in the discipline sheet.	

11. RECOVERY PROGRAM

	No. absences that can recover	**Place of deployment**	**Period**	**In charge**	**Scheduling of topics**
Absences recoveries	**7/sem**	Official department location /online*	Last week of the semester Friday 8-12	All teaching staff	Depending on the practical work to be recovered
Schedule consultations / Students' Scientific Circle	4 h/month	Official department location /online*	Friday 12-13	All teaching staff	The theme of that week
Program for students poorly trained	4 h/month	Official department location /online*	Friday 13-14	All teaching staff	The theme of that week

12. ASSESMENT

Activity	**Types of assesment**	**Methos of evaluation**	**Percentage from final grade**
Lecture	Formative assesment through essays, projects and surveys during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ)/MCQ with the help of the IT platform in the online version.	40%
Practical work	Formative assesment through Multiple Choice Questions Answering System (MCQ) or/and descriptive, projects, survey during the semester. Periodic assesment during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ) simultaneously with the one from the course / with the help of the video platform in the online version.	30%
Periodic assesment			20%
Assesment of individual activity			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**
Last Friday of each month	Discipline	All teaching staff

Endorsement date in the department: 23.09.2024

Department Director,
Prof. Ion MÎNDRILĂ

Coordinator of study program,
Prof. Marius Eugen CIUREA

Discipline holder,
Prof. Ion MÎNDRILĂ