

**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	<b>MEDICINE</b>
1.3 Department	3
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	<b>INTERNAL MEDICINE -GASTROENTEROLOGY</b>		
2.2. Discipline code	MED5101.1		
2.3 The holder of course activities	Professor Dr. Ciurea Tudorel, Professor Dr. Rogoveanu Ion, Professor Dr. Vere Cristin Constantin, Professor Dr. Gheonea Dan-Ionuț, Lecturer Florescu Dan Nicolae		
2.4 The holder of seminar activities	Professor Dr. Ciurea Tudorel, Professor Dr. Rogoveanu Ion, Professor Dr. Vere Cristin Constantin, Professor Dr. Gheonea Dan-Ionuț, Assistant Professor Cazacu Sergiu Marian, Assistant Professor Dr. Neagoie Carmen Daniela, Assistant Professor Iordache Sevastița, Assistant Professor Săndulescu Daniela Larisa, Lecturer Genunche-Dumitrescu Amelia-Valentina, Lecturer Popescu Mihaela, Lecturer Ungureanu Bogdan Silviu, Lecturer Florescu Dan Nicolae, Lecturer Iovanescu Vlad Florin, Teaching Assistant Ionescu-Ciocalteu Adriana Mihaela, Teaching Assistant Petrică Popa		
2.5. Academic degree	Professor, Assistant Professor, Lecturer, Teaching Assistant		
2.6. Employment (base norm/associate)	Base norm/associate		
2.7. Year of study	<b>V</b>	2.8. Semester	<b>I</b>
2.9. Course type (content)		2.10. Regime of discipline (compulsoriness)	
		<b>CSD</b>	

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

3.1 Number of hours per week	<b>9,86</b>	3.2 From which - course	<b>3</b>	3.3 seminary/laboratory	<b>6,86</b>
3.4 Total hours in curriculum	<b>138,04</b>	3.5 From which - course	<b>42</b>	3.6 seminary/laboratory	<b>96,04</b>
Time fond distribution (hours)					
Study by manual, course support, bibliography, and notes					<b>24,76</b>
Additional documentation in the library, specialized electronic platforms and on the field					<b>30</b>
Training seminars / laboratories, homework, reports, portfolios, and essays					<b>15</b>
Tutoring					<b>-</b>
Examinations					<b>5</b>
Other activities, counselling, student circles					<b>12,2</b>
3.7 Total hours of individual study	<b>86,96</b>				
3.9 Total hours per semester	<b>225</b>				
3.10 Number of credits <sup>1</sup>	<b>9</b>				

**4. PREREQUISITES (where appropriate)**

4.1 curriculum	The students have to have general background knowledges of anatomy and physiology of the digestive tract.
4.2 competency	-

**5. CONDITIONS (where appropriate)**

5.1. of course deployment	Lecture Hall with projector / online
5.2. of seminary/ lab deployment	<ul style="list-style-type: none"> <li>• Clinical internship/ online</li> <li>• Students are required to wear their badges at all times.</li> <li>• Previous self-preparing through individual study.</li> <li>• History and physical examination of the patient.</li> </ul>

## 6. SPECIFIC ACCRUED COMPETENCES

<b>PROFESSIONAL COMPETENCES</b>	<p>C1 – Identifying the disease and choosing the correct diagnosis;</p> <p>C4 – To address the health issues/illness from the perspective of community specifics, directly related to the social, economic, and/or cultural aspects;</p> <p>C5 – Initiate and conduct a scientific research and/or formative activity in his field of competence.</p>
<b>TRANSVERSAL COMPETENCES</b>	<p>CT1 – Autonomy and responsibility</p> <ul style="list-style-type: none"> <li>• 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 community development;</li> <li>• to know, respect and contribute to the development of moral values and professional ethics;</li> <li>• learn to recognize when a problem arises and provide responsible solutions to solve it.</li> </ul> <p>CT2 – Social Interaction:</p> <ul style="list-style-type: none"> <li>• recognize and have respect for diversity and multiculturalism;</li> <li>• communicate orally and in writing the requirements, working methods, results, consult with the team;</li> <li>• get involved in volunteering, to know the essential problems of the community.</li> </ul> <p>CT3 – Personal and Professional Development</p> <ul style="list-style-type: none"> <li>• to be open to lifelong learning;</li> <li>• to appreciate the need for individual study as the basis of personal autonomy and professional development;</li> <li>• to exploit their potential within collective activities;</li> <li>• to know how to use information and communication technology.</li> </ul>

## 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"> <li>• Learning gastroenterological diseases in terms of etiology, pathogenesis, diagnosis and treatment;</li> <li>• Practical skills training by the patient with digestive diseases translated into the development of a plan of investigation and appropriate treatment</li> </ul>
7.2 The specific objectives of the discipline	<ul style="list-style-type: none"> <li>• To identify the correct diagnosis of a patient with gastrointestinal disease;</li> <li>• To formulate the investigations plan</li> <li>• Know the principles of making specific diagnostic gastroenterology techniques (evacuatory or exploratory paracentesis, endoscopy, ultrasound, etc.).</li> <li>• To correctly interpret laboratory and imaging results (transabdominal ultrasonography, upper endoscopy, lower endoscopy, echoendoscopy, computed tomography, magnetic resonance imaging, etc.)</li> </ul>

## 8. CONTENTS

8.1 Course (content units)	Hours
<p><b>Pathology of the esophagus</b></p> <ul style="list-style-type: none"> <li>- Exploring the esophagus</li> <li>- Esophageal syndrome</li> <li>- Esophageal motility disorders, achalasia, distal esophageal spasm</li> <li>- Gastroesophageal reflux disease</li> <li>- Esophagus tumors</li> </ul>	<b>3</b>
<p><b>Pathology of the stomach and duodenum</b></p> <ul style="list-style-type: none"> <li>- Exploring the stomach and duodenum</li> <li>- Gastritis and gastropathies</li> <li>- Gastric and duodenal ulcer</li> </ul>	<b>3</b>
<p><b>Pathology of the stomach and duodenum</b></p> <ul style="list-style-type: none"> <li>- Pathology of the operated stomach</li> <li>- Upper gastrointestinal bleeding</li> </ul>	<b>3</b>
<p><b>Pathology of the stomach and duodenum</b></p> <ul style="list-style-type: none"> <li>- Dyspeptic syndrome</li> <li>- Gastric tumors</li> </ul>	<b>3</b>
<p><b>Pathology of the small bowel</b></p> <ul style="list-style-type: none"> <li>- Diarrhea</li> <li>- Malabsorption syndrome</li> <li>- Intestinal tuberculosis</li> <li>- Tumors of the small bowel</li> </ul>	<b>3</b>

<b>Pathology of the Colon and Rectum</b> - Constipation - Irritable bowel syndrome - Colon polyps - Diverticular colon disease - Cancer of the colon and rectum	<b>3</b>
<b>Pathology of the Colon and Rectum</b> - Inflammatory bowel diseases - Vascular diseases of the intestine - Lower gastrointestinal bleeding	<b>3</b>
<b>Pathology of the liver</b> - Exploring the liver - Jaundice: pathophysiology, diagnosis - Cholestasis - Chronic viral hepatitis - Autoimmune hepatitis - Liver diseases of genetic origin	<b>6</b>
<b>Pathology of the liver</b> - Cirrhosis - Portal hypertension - Hepatic encephalopathy - Ascites	<b>3</b>
<b>Pathology of the liver</b> - Alcoholic liver disease - Non-alcoholic steatohepatitis - Liver and drugs - Tumors of the liver	<b>3</b>
<b>Pathology of gallbladder and biliary tract</b> - Imaging of the gallbladder and biliary tract - Gallstones - Acute and chronic cholecystitis - Congenital anomalies of the biliary tract	<b>3</b>
<b>Pathology of biliary tract and pancreas</b> - Benign lesions of the gallbladder and biliary tract - Malignant tumors of the gallbladder and biliary tract - Imaging of the pancreas	<b>3</b>
<b>Pathology of the pancreas</b> - Acute pancreatitis - Chronic pancreatitis - Tumors of the pancreas	<b>3</b>
<b>BIBLIOGRAPHY</b> 1. <b>Medicină internă – Hepatologie</b> Sub redacția Tudorel Ciurea. Editura Medicală Universitară, Craiova, 2019. 2. <b>Medicină internă - Gastroenterologie</b> Tudorel Ciurea, Sergiu Cazacu, Dan Ionuț Gheonea. Editura Medicală Universitară, Craiova, 2015. 3. <b>Sleisenger and Fordtran's gastrointestinal and liver disease: pathophysiology/diagnosis/management - Tenth edition</b> Edited by Mark Feldman, Lawrence S. Friedman, Lawrence J. Brandt. Elsevier, 2016. 4. <b>Ecografie Generală</b> Sub redacția Tudorel Ciurea, I. Rogoveanu. Editura Medicală Universitară, Craiova, 2020. 5. <b>Kumar&amp;Clark – Clinical Medicine</b> Adam Feather & David Randall & Mona Waterhouse– Tenth Edition - Residency 2021, pages 1147 – 1223, ISBN: 9780702078682.	

<b>8.2 Practical work (topics / themes)</b>	
1.Clinical exam of the patients with digestive diseases.	6,86
2.Writing of case notes.	6,86
3.Development of the plan of paraclinical investigations.	6,86
4.Interpretation of imaging techniques in gastroenterology (digestive endoscopy, transabdominal ultrasound, CT, MRI, radiologic studies), biochemical and immunological tests, pathology slides for the patients with digestive diseases.	20,58
5.Participating in some diagnostic and therapeutic methods (paracentesis, ultrasonography, and endoscopy).	6,86
6.Assessment of daily evolution of the admitted patients and recording of the pathological changes.	6,86
7.Developing the therapeutic plan for the patients.	6,86
8.Participation in clinical rounds, as well as on calls or clinical demonstrations.	6,86
9.Exercises of diagnosis and treatment.	6,86
10.Presentation of updated clinical lectures regarding special cases encountered in the department.	6,86
11.Development of the medical files and prescriptions.	6,86
12.Periodic tests of diagnostic and treatment problems in digestive disorders.	6,86
<b>BIBLIOGRAPHY</b>	
1. <i>Medicină internă – Hepatologie</i> Sub redacția Tudorel Ciurea. Editura Medicală Universitară, Craiova, 2019.	
2. <i>Medicină internă - Gastroenterologie</i> Tudorel Ciurea, Sergiu Cazacu, Dan Ionuț Gheonea. Editura Medicală Universitară, Craiova, 2015.	
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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**

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**10. METHODOLOGICAL LANDMARKS**

Types of activity	Techniques of teaching / learning, materials, resources: lecture, interactive group work, learning based problems / projects audio-video recordings, etc.
Course	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 discipline sheet.
Practical work	Clinical internship
Individual study	<ul style="list-style-type: none"> <li>• Before every course and practical work.</li> <li>• For the online version: lecture, debate, problematization based on materials provided in advance.</li> </ul>

**11. RECOVERY PROGRAM**

Absences recoveries	No. absences that can recover	Place of deployment	Period	In charge	Scheduling of topics
	3	Medical Clinic no. I Gastroenterology, SCJUC/ online	Friday 08.00 – 12.00	Teaching Assistant	According to the internal schedule
Schedule consultations / Students' Scientific Circle	3	Medical Clinic no. I Gastroenterology, SCJUC/ online	Monday-Friday 12.00 – 15.00	All teaching assistants	The theme of the week. Student workshop: neurosciences - the brain ageing researches.
Program for students poorly trained	3	Medical Clinic no. I Gastroenterology, SCJUC/ online	Monday-Friday 12.00 – 15.00	All teaching assistants	According to the situation of each student Theme from that specific week

<b>12. ASSESMENT</b>			
<b>Activity</b>	<b>Types of assesment</b>	<b>Methos of evaluation</b>	<b>Percentage from final grade</b>
<b>Course</b>	Formative assesment through essays, projects and surveys during the semester Summative assesment during the exam	Multiple Choice Questions Answering System (MCQ) with physical presence or MCQ with the help of the IT platform in the online version.	50%
<b>Practical work</b>	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	Practical examination of the pacient or Multiple Choice Questions Answering System (MCQ) with physical presence or with the help of the video platform in the online version.	40%
<b>Periodic checks</b>	-	-	5%
<b>Attendance at the course and practical stage</b>	-	-	5%
<b>Minimum performance standard</b>	At least 50% for each component of the evaluation		
<b>13. GUIDANCE AND COUNSELLING PROGRAMS</b>			
<b>Professional guidance and counselling programs (2 hours/monthly)</b>			
<b>Scheduled hours</b>		<b>Location</b>	<b>In charge</b>
Every last Friday of the month		Medical Clinic no. I Gastroenterology, SCJUC/ online	Lecture holders

**Endorsement date in the department: 28.09.2022**

**Department Director,  
Prof. Cristin VERE**

**Coordinator of study program,  
Prof. Marius Eugen CIUREA**

**Discipline holder,  
Prof. Tudorel CIUREA**