

**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	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	<b>GENERAL SURGERY</b>				
2.2. Discipline code	MED4203				
2.3 The holder of course activities	Prof. Valeriu Marin Surlin, Lecturer Dan Cârțu, Lecturer Dragos Mărgăritescu, Lecturer Sandu Ramboiu, Lecturer Daniela Marinescu, Lecturer Tiberiu Tenea, Lecturer Stefan Patrascu, Lecturer Gabriel Mogos, Lecturer Marius Bica				
2.4 The holder of seminar activities	Prof. Valeriu Marin Surlin, Lecturer Dan Cârțu, Lecturer Dragos Mărgăritescu, Lecturer Sandu Ramboiu, Lecturer Daniela Marinescu, Lecturer Tiberiu Tenea, Lecturer Stefan Patrascu, Lecturer Gabriel Mogos, Lecturer Marius Bică, Assistant Prof. Sarmis Săndulescu, Assistant Prof. Tudor Bratiloveanu, Assistant Prof. Dan Mogos, Assistant Prof. Alexandru Goganau, Assistant Prof. Bordu Silviu, Assistant Prof. Ana Maria Predoi Ifrim				
2.5. Academic degree	Professor, Associate professor, Lecturer, Assistant professor				
2.6. Employment (base norm/associate)	Base norm				
2.7. Year of study	<b>IV</b>	2.8. Semester	<b>II</b>	2.9. Course type (content) 2.10. Regime of discipline (compulsoriness)	<b>CSD</b>

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

3.1 Number of hours per week	<b>13.6</b>	3.2 From which - course	<b>4</b>	3.3 Clinical stage	<b>9.6</b>
3.4 Total hours in curriculum	<b>190.4</b>	3.5 From which - course	<b>56</b>	3.6 Clinical stage	<b>134.4</b>
Time found distribution (hours)					
Study from manual, course support, bibliography, and notes					<b>8</b>
Additional documentation in the library, specialized electronic platforms and, on the field					<b>8</b>
Training seminars / labs, homework, reports, portfolios, and essays					<b>6</b>
Tutoring					<b>4</b>
Examinations					<b>4</b>
Other activities, counselling, student scientific programs					<b>4.6</b>
3.7 Total hours of individual study	<b>34.6</b>				
3.9 Total hours per semester	<b>225</b>				
3.10 Number of credits	<b>9</b>				

**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

<b>6. SPECIFIC COMPETENCES ACCURED</b>	
<b>PROFESSIONAL</b>	<p>C1 – to identify the illness status and to establish the correct diagnosis of the disease/diseases,            C2 – preparing and applying an adequate treatment plan for the identified condition(s).            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.            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,            C5 – to initiate and perform scientific and/or training activity in the respective domain of competence.</p>
<b>TRANSVERSAL COMPETENCES</b>	<p>CT1 Autonomy and responsibility</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>• to recognize, to respect and to contribute to development of moral values and professional ethics;</li> <li>• to learn to recognize an issue when it arises and to offer solutions for solving it.</li> </ul> <p>CT2 Social interactions</p> <ul style="list-style-type: none"> <li>• to recognize and to respect diversity and multiculturalism;</li> <li>• to have or to learn the development of teamwork skills,</li> <li>• to communicate orally or in writing the requirements, method of work, the results and to interact with team members,</li> <li>• to be involved in volunteering, to be aware of the community key issues.</li> </ul> <p>CT3 Personal and professional development</p> <ul style="list-style-type: none"> <li>• to be ready for lifelong learning,</li> <li>• to appreciate the necessity of individual study as the basis for personal autonomy and professional development,</li> <li>• to exploit his/her own creative potential in collective activities,</li> <li>• to know how to use the 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>- to achieve fundamental knowledge about the etiopathogeny, physiopathology, anatomical pathology, clinical signs, imagistic and lab explorations, diagnosis and treatment of different surgical diseases,</li> <li>- to be able to establish both the positive and differential diagnosis of a certain surgical pathology,</li> <li>- to be able to prepare the patient for surgery, emergency and elective surgery.</li> <li>- to be able to decide and to apply the treatment in case of a surgical emergency.</li> <li>- to be able to decide and to apply the treatment in case of a surgical disease.</li> </ul>
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"> <li>1. Cognitive skills, which will enable:             <ul style="list-style-type: none"> <li>- to have the necessary knowledge and skills needed for the diagnosis of surgical disorders,</li> <li>- to establish and to apply the correct therapeutic algorithm for surgical indication disorders,</li> <li>- to know the preoperative preparation methods of patients requiring surgery,</li> <li>- to monitor the postoperative status of the patient and to apply the therapeutic algorithm in case of a postoperative complication.</li> </ul> </li> <li>2. Practical skills             <ul style="list-style-type: none"> <li>- to perform general and local abdominal physical examination,</li> <li>- to monitor the daily status of the surgical patient, mentioning his biological curves,</li> <li>- to suture a superficial wound,</li> <li>- to know the clinical signs of major surgical diseases,</li> <li>- to know how to conduct a proper dressing,</li> <li>- to examine an abdominal drainage and to be able to suppress a drainage tube when necessary.</li> </ul> </li> <li>3. Attitudes             <ul style="list-style-type: none"> <li>- to be open to acquire moral guidelines, training of professional</li> </ul> </li> </ol>

	<p>and civic attitudes allowing students to be honest, non-confrontational, cooperative, sympathetic to suffering, ready to help people, interested in community development,</p> <ul style="list-style-type: none"> <li>- to know, respect and contribute to development of moral values and professional status,</li> <li>- to learn to recognize an arising issue and to provide solutions for solving it,</li> <li>- to have respect for diversity and multiculturalism,</li> <li>- to communicate orally and in writing the requirements, method of work, the results and to interact with team members,</li> <li>- to be ready for lifelong learning,</li> <li>- to appreciate the necessity of individual study as the basis for personal autonomy and professional development,</li> <li>- to exploit his/her own creative potential in collective activities,</li> <li>- to know how to use the information and communication technology,</li> <li>- to initiate and to be involved in discipline educational and scientific activities.</li> </ul>
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## 8. CONTENTS

<b>8.1 Course (content units)</b>	hours
<b>Pathology of the appendix</b> Acute appendicitis, chronic appendicitis, the tumours of the appendix.	2
<b>Pathology of the abdominal wall.</b> Types of hernia, groin, femoral, umbilical, rare hernia, ventral hernia and evisceration.	4
<b>Surgical pathology of the thyroid gland</b> Acute and chronic thyroiditis, goitre, the hyperthyroidism, the thyroid cancer	4
<b>Surgical pathology of the breast</b> Acute and chronic mastitis, the benign tumours, the breast cancer	4
<b>Diaphragm pathology</b> Types of hernia of the diaphragm, hiatal hernia.	2
<b>Surgical pathology of esophagus.</b> Post caustic oesophageal strictures, the peptic esophagitis, the functional oesophageal disorders (cardio spasm), the oesophageal diverticulum, the oesophageal carcinoma.	2
<b>Surgical pathology of the stomach and of the duodenum</b> Gastric and duodenal ulcers, the post gastrectomy syndromes, the gastric and duodenal benign tumours, the gastric cancer.	6
<b>Surgical pathology of the small bowel and of the mesentery</b> The small bowel tumours, the mesenteric tumours, the Crohn's disease, the mesenteric arteritis	2
<b>Surgical pathology of the colon</b> Diverticular disease, the ulcerative colitis, the ileocecal tuberculosis, the colonic polyps, colon cancer.	4
<b>Surgical pathology of the anorectum</b> Anorectal abscess, fistula in ano, anal fissure, the pilonidal disease, the ano-rectal prolapse, the anorectal tumours (rectal cancer, anal neoplasms),	4
<b>Surgical pathology of the liver</b> Benign tumours of the liver, the hydatid cyst the liver, the abscess of the liver, the liver transplant,	2
<b>Surgical pathology of the biliary tree</b> Cholelithiasis and its complications, the alithiasic cholecystitis, the biliary tract cancer	4
<b>Obstructive jaundice</b> Physiopathology, etiopathogeny, diagnosis, treatment principles	2
<b>Surgical pathology of the pancrea</b> Acute and chronic pancreatitis, the pancreatic tumours.	2
<b>Acute surgical abdomen</b> Peritonitis (diffuse secondary peritonitis), peritoneal abscess, chronic peritonitis (TBC), bowel obstruction, mesenteric artery occlusion, digestive haemorrhages, superior and inferior ones, trauma surgery.	8
<b>Peripheral vascular surgical pathology</b> Varicose vein disease, the venous thrombosis, chronic ischemia, occlusive arterial disease.	4
<b>BIBLIOGRAPHY</b>	
<ol style="list-style-type: none"> <li>1. Ion Georgescu sub red. – Chirurgie generala, Ed. Medicala universitara, Bucuresti, 2015</li> <li>2. Schwartz's Principles of Surgery, McGraw-Hill Education, 11<sup>th</sup> edition, 2019</li> <li>3. Essentials of General Surgery and Surgical Specialties, sub red. Peter F. Lawrence, 6<sup>th</sup> edition, Wolters Kluwer, 2019</li> </ol>	

<b>8.2 Practical work (topics / themes)</b>	
1. General surgery during the COVID pandemic	2
2. COVID protective equipment training	1
3. The observation sheet of the surgical patient, examples,	3
4. Students should know and be able to practice the following techniques of clinical examination : - the general examination of the abdomen, - the examination of an inguinal hernia and a femoral hernia, - the breast examination, - the examination of patient with goitre, - the examination of the peripheral arterial and venous system, - the rectal and vaginal touch,	12
5. The preoperative preparation of surgical patients according to their biological status and types of the interventions (neoplasm, surgery of the digestive tract, thyroid, breast, etc)	6
6. The surveillance and the postoperative assessment of surgical patients with different types of anaesthesia.	6
7. Preventions methods for early general and local postoperative complications.	12
8. Electrolyte and metabolic rebalancing for patients with pyloric stenosis, intestinal occlusion, peritonitis.	6
9. Preoperative preparation and exploration of patient with morbid obesity.	6
10. The principles of antibiotherapy in a surgical department.	6
11. Treatment and monitoring of a patient with gastrointestinal bleeding.	6
12. Preparation for radiological and endoscopic explorations of digestive tract.	3
13. The postoperative alimentation – according to the disease and the type of the surgical intervention.	6
14. Principles for fast rehabilitation after surgery – E.R.A.S. (Enhanced Recovery After Surgery) – Fast-Track	6
15. To take part or to do the following exploration techniques and the surgical treatment: anoscopy, rectosigmoidoscopy, bladder catheterism, venepuncture, incisions, surgical sutures, drainage, assessment the evolution and the treatment of a sutured wound, wound dressing, paracentesis, thoracocentesis, monitoring the treatment of an infected wound, gastric lavage.	21
16. To recognize the instruments used for a surgical intervention.	6
17. To recognize the surgical instruments used for a laparoscopy.	6
18. Presenting clinical cases.	24
19. To establish a plan for explorations according to the surgical disorder.	6
<b>BIBLIOGRAPHY</b>	
1. Ion Georgescu sub red. – Chirurgie generala, Ed. Medicala universitara, Bucuresti, 2015	
2. Schwartz's Principles of Surgery, McGraw-Hill Education, 11 <sup>th</sup> edition, 2019	
3. Essentials of General Surgery and Surgical Specialties, sub red. Peter F. Lawrence, 6 <sup>th</sup> edition, Wolters Kluwer, 2019	

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

<ul style="list-style-type: none"> <li>▪ General surgery as a discipline is a domain discipline, necessary for a student to become a medical doctor.</li> <li>▪ 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.</li> </ul>
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## **10. METHODOLOGICAL LANDMARKS**

Types of activity	Teaching Techniques / learning materials and resources: exposure, interactive lecture, teamwork, problem-based learning etc. <b>In case of special situations (alert states, emergency conditions, 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 fulfilment of all the objectives provided in the discipline file.</b>
Course	Lecture debate, questioning
Practical work	Practical applications, case-study, projects
Individual study	Prior course and clinical seminary

## **11. RECOVERY PROGRAM**

Absences recoveries	No. absences that can recover	Location of deployment	Period	In charge	Scheduling of topics
	3	1 <sup>st</sup> Surgical Department	Every Friday between 11-13	Group's teaching assistant	Chronological, 2 topics/day
Schedule consultations /	-	1 <sup>st</sup> Surgical Department	weekly	Prof. Valeriu Surlin, Assistant	Topic of the week

Students' Scientific Program				prof. S. Sandulescu, Lecturer S. Ramboiu	
Program for students poorly trained	-	1 <sup>st</sup> Surgical Department	weekly	All the teaching assistants	Topic of the week
<b>12. ASSESSMENT</b>					
<b>Type of activity</b>	<b>Type of assessment</b>		<b>Methods of evaluation</b>		<b>Percentage of final grade</b>
<b>Lecture</b>	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.		70%
<b>Clinical Stage</b>	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.		20%
<b>Periodic assesment</b>					
<b>Assesment of individual activity</b>					10%
<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>Scheduling the hours</b>			<b>Location</b>		<b>In charge</b>
Every Friday between 11-13			1 <sup>st</sup> Surgical Department/online		Lecturer Dan Cartu

Endorsement date in the department: 27.09.2022

Department Director,  
Prof. Valeriu ȘURLIN

Coordinator of study program,  
Prof. Marius Eugen CIUREA

Discipline holder,  
Prof. Valeriu ȘURLIN