

## SUBJECT OUTLINE

## 1. Programme of study description

1.1. THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY

- 1.2. THE FACULTY OF MEDICINE / 10<sup>TH</sup> CLINICAL DEPARTMENT GENERAL SURGERY
- 1.3. DISCIPLINE GENERAL SURGERY

**1.4. DOMAIN OF STUDY: Healthcare – regulated sector within the EU** 

**1.5.** CYCLE OF STUDIES: BACHELOR'S DEGREE

1.6. **PROGRAMME OF STUDY: MEDICINE** 

## 2. Subject description

2.1. 2.2. 2.3.	Name of the compulsory subject subject within the discipline: General Surgery Location of the discipline: Course tenured coordinator:							
2.4.	Practicals/clinical rotations tenured coordinator:							
2.5. stud	Year o y	f 5 <sup>th</sup> year	2.6. Semester	2.7. Type of assessmen t	Practical theoretical	and	2.8. Subject classification	Mandatory

## 3. Total estimated time (hours/semester of didactic activity) – teaching module

Number of hours per		Out of		Clinical			
week	30	which:	10	rotation	20		
		course					
Total number of hours		Out of		Clinical	112		
from curriculum	168	which:	56	rotation	112		
		course					
Distribution of allotted	6 weeks		2 hours / day		3 hours / day		
time							
Study from textbooks, cour	Study from textbooks, courses, bibliography, and student notes 2 hours						
Additional library study, st	Additional library study, study on specialized online platforms and field study 6 hours						
Preparing seminars / labora	Preparing seminars / laboratories, assignments, reports, portfolios and essays 2 hours						
Tutoring	<b>Futoring</b> 4 hours						
Examinations					10 hours		
Other activities	<b>Other activities</b> 10 hours						
Total hours of individual study 34 h					34 hours		
Number of credit points					11		

### 4. Prerequisites (where applicable)

4.1. of curriculum	Fundamental knowledge of human anatomy and	
	physiology	
4.2. of competencies	General and local clinical examination of the	
	patient	

### 5. Requirements (where applicable)

5.1. for delivering the course	Laptop / projector / Amphitheatre
5.2. for delivering the clinical rotation	Surgical Clinic – General Surgery Ward



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6. Acquired specific competencies

o. Acquireu specific competencies	
Professional competencies (expressed	At the end of the surgical rotation the student should be
through knowledge and skills)	capable of describing the fundamental notions (anatomy,
	pathophysiology, clinical presentation, treatment options,
	postoperative care and follow up) for the main surgical
	pathologies of the general surgical field including digestive
	tract, upper and lower limbs, surgical emergencies.
	The student should be able to conduct a thorough clinical
	examination of the surgical patient, interpret paraclinical
	investigations, imagistic studies and other tools of
	investigations.
	Basic surgical skills and wound care notions
	Basic surgical skills and wound care notions
Transversal competencies (of role, of	
Transversal competencies (of role, of professional and personal development)	Identifying the main objectives, available resources and personal professional development
	Identifying the main objectives, available resources
	Identifying the main objectives, available resources and personal professional development
	Identifying the main objectives, available resources and personal professional development Proficient use of informational resources
	Identifying the main objectives, available resources and personal professional development Proficient use of informational resources Identifying the roles and responsabilities incumbent to
	Identifying the main objectives, available resources and personal professional development Proficient use of informational resources Identifying the roles and responsabilities incumbent to every member of the multidisciplinary team

# 7. Subject learning objectives (based on the scale of acquired specific competencies)

7.1. General learning objective	The student should be able to properly diagnose different surgical	
	pathologies, correct diagnosis of a surgical emergency and treatment	
	principles.	
7.2. Specific learning objectives	Clinical examination of the surgical patient	
	Interpretation of general and specific paraclinical investigations for the	
	surgical patient	
	Devising and implementing a targeted management plan for individual	
	patients	
	Efficient communication with the surgical patient	
	Basic surgical skills such as wound care, suturing a wound, wound	
	dressing, nazogastric tube / urinary cathether placement etc	

# 8. Content

8.1. Course	Teaching methods	Obser vation
		S
Course 1 Liver trauma	Lectures are held in the Amphitheatre	2
Course 2 Tumoral pathology of the liver	of Bucharest Emergency Clinical	hours
Course 3 Infectious pathology of the liver	Hospital which is fitted with an interactive electronic board, projector,	
Course 4 Surgical benign pathology of the biliary	and laptop.	
ducts	- The lectures are on digital format (as	
Course 5 Surgical malignant pathology of the biliary	power point presentations which	
ducts	- include illustrative pictures, photos	
Course 6 Inflammatory pathology of the pancreas	from the Clinics archive, videos and	
Course 7 Tumoral pathology of the pancreas	short clips).	
Course 8 Pancreatic trauma	The lectures are updated yearly in	
Course 9 Benign pathology of the colon	concordance with the national and	



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Course 10 Malignant pathology of the colon	international guidelines, treaties and textbooks.	
Course 11 Benign pathology of the rectum	The lectures are intended to be as	
Course 12 Malignant pathology of the rectum	interactive as possible with case	
Course 13 Benign perianal pathology	presentations and 'questions and	
Course 14 Malignant perianal pathology	answers' sessions with the students.	
Course 15 Intestinal obstruction (I)		
Course 16 Intestinal obstruction (II)		
Course 17 Acute peritonitis (I)		
Course 18 Acute peritonitis (II)		
Course 19 Abdominal trauma		
Course 20 Upper digestive hemorrhage		
Course 21 Lower digestive hemorrhage		
Course 22 Surgical pathology of the spleen		
Course 23 Surgical pathology of the vermiform appendix		
Course 24 Fundamentals of minimal invasive surgery		

8.2. Clinical rotation	Teaching methods	Obser vation s
CR 1 Semiology of the liver (I) CR 2 Semiology of the liver (II) CR 3 Semiology of the billiary ducts (I) CR 4 Semiology of the billiary ducts (II) CR 5 Semiology of the pancreas (I) CR 6 Semiology of the pancreas (II) CR 7 Semiology of the colon CR 8 Basics of robotic surgery CR 9 Semiology of the vermiform appendix CR 10 Semiology of the spleen CR 11 Postoperative fever CR 12 Semiology of the perianal region CR 13 Upper digestive endoscopy CR 14 Lower digestive endoscopy CR 15 Basics of anesthesia	Prevention of contamination and work related accidentGetting familiar with the surgical patientClinical examination of the surgical patientFilling in the surgical chart of the patientParaclinical investigations – use and interpretationClinical presentationsMorning rounds participation Differential diagnosisSurgical patient Postoperative follow up	3 hours
CR 15 Basics of allestitesiaCR 16 Blood transfusion principlesCR 17 Nutrition principles of surgical patientCR 18 CPR procedureBibliography for course and clinical rotation	Participation in the operating room as observers	

Course of Surgery for the 4th and 5th year students Vol. II – Coordinator: Mircea Beuran, MD, PhD, FACS, Professor of Surgery, "Carol Davila" University Press, Bucharest, 2016 – ISBN 978-973-708-884-0



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9. Corroboration of the subject content with the expectations of the representatives of the epistemic community, professional associations, and major employers in the field of the programme of study

Proper training of the medical student during surgical rotations should constitute a benchmark for residency and future professional development

10.	Assessment
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Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	CourseKnowledge of fundamental theoretical notions of the lectures100 questions out of which 60 questions with single choice answer and 40 questions with multiple choice answerDaily routine during the clinical rotations / activity / clinical case presentations /100 questions out of which 60 questions answer and 40 questions with multiple choice answer		90 %
			10 %
Clinical rotation	Knowledge and execution of main clinical maneuvers	Practical examination with the group coordinator	Pass / Fail
	Ability of interpreting clinical and paraclinical investigations / formulation of a diagnosis and treatment options	Practical examination with the Professor / Assoc Professor	Pass / Fail
Minimum performanc			
Minimal grad for passin	g: 5 (five)		