

SUBJECT OUTLINE

1. Programme of study description

1.1.	THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	THE FACULTY OF MEDICINE / 10 TH 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.	Name of the compulsory subject subject within the discipline: General Surgery						
2.2.	Location of the discipline:						
2.3.	Course tenured coordinator:						
2.4.	Practicals/clinical rotations tenured coordinator:						
	Year of y 4 th	2.6. Semester	2.7. Type of assessment	Practical and	2.8. Subject classification	Mandatory	

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

Number of hours per week	25	Out of which: course	10	Clinical rotation	15
Total number of hours from curriculum	180	Out of which: course	72	Clinical rotation	108
Distribution of allotted time	4th year – 8 weeks		2 hours / day		3 hours / day

Study from textbooks, courses, bibliography, and student notes		2 hours	
Additional library study, study on specialize	6 hours		
Preparing seminars / laboratories, assignments, reports, portfolios and essays 2 hours			
Tutoring		4 hours	
Examinations		10 hours	
Other activities		10 hours	
Total hours of individual study		34 hours	
Number of credit points		11	

4. Prerequisites (where applicable)

4.1. of curriculum Fundamental knowledge of human anaton		
	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



6. Acquired specific competencies

Professional competencies (expressed through knowledge and skills)	At the end of the surgical rotation the student should be 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
Transversal competencies (of role, of professional and personal development)	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
	Assesment of risk stratification
	Development of empathy towards the patient and medical deontology.

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

7. Subject learning objectives (b)	ased 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
Course 1 Surgical history and the history of the Surgical Clinic of the hospital Course 2 Surgical infection Course 3 Localized surgical infection Course 4 Generalized surgical infection / Septic shock Course 5 Contusions, eschars. Wound healing Course 6 The diabetic foot Course 7 Politrauma Course 8 Surgical semiology of arterial pathology Course 9 Surgical semiology of venous pathology Course 10 Thromboembolic disease in surgical pathology	Lectures are held in the Amphitheatre of Bucharest Emergency Clinical Hospital which is fitted with an interactive electronic board, projector, and laptop. The lectures are on digital format (as power point presentations which include illustrative pictures, photos from the Clinics archive, videos and short clips). The lectures are updated yearly in concordance with the national and international guidelines, treaties and	2 hours



	textbooks.
Course 11 Chest trauma	The lectures are intended to be as
Course 12 Pulmonary hydatic cyst	interactive as possible with case
Course 13 Benign breast pathology – trauma and infections	presentations and 'questions and answers' sessions with the students.
Course 14 Malignant breast pathology	
Course 15 Pathology of the abdominal wall – external hernias	
Course 16 Pathology of the abdominal wall – internal hernias	
Course 17 Pathology of the abdominal wall – incisional hernias	
Course 18 Benign thyroid pathology	
Course 19 Malignant thyroid pathology	
Course 20 Benign esophageal pathology	
Course 21 Duodenal ulcer	
Course 22 Gastric ulcer	
Course 23 Malignant gastric pathology	
Course 24 Surgical pathology of the small intestine	
Course 25 Inflammatory pathology of the small	
intestine	
Course 26 Fundamentals of transplant surgery	
Course 27 Legal and deontological aspects of medical practice in Romania	

8.2. Clinical rotation	Teaching methods	Obser vation s
CR 1 Aseptic measures	Prevention of contamination and work	3 hours
CR 2 Preoperative preparation of the patient CR 3 Surgical instruments CR 4 Types of incisions / surgical debridement CR 5 Venous and arterial cathetherization CR 6 Intradermic / subcutaneous / intramuscular injections / endovenous line placement CR 7 Blood transfusion CR 8 Wound care CR 9 Fine needle biopsy CR 10 Thoracocentesis / Paracentesis CR 11 Hemostasis CR 12 Wound suturing CR 13 Nazogastric tube CR 14 Urinary cathetherisation	related accident Getting familiar with the surgical patient Clinical examination of the surgical patient Filling in the surgical chart of the patient Paraclinical investigations – use and interpretation Clinical presentations Morning rounds participation Differential diagnosis Surgical patient management Postoperative follow up	hours



CR 15 Chest tube placement	Participation in the operating room as	
CR 16 Cardiac arrest	observers	
CR 17 CPR procedure		
CR 18 Postoperative follow up		
CR 19 Peripheral pulse palpation		
CR 20 Clinical examination of the venous system		
CR 21 Clinical examination of the lymphatic system		
CR 22 Clinical examination of the inghino-femoral		
region		
CR 23 Clinical examination of incisional hernias		
CR 24 Clinical examination of the breast		
CR 25 Clinical examination of the thyroid gland		
CR 26 Clinical examination of the thorax		
CR 27 Clinical examination of the stomach		
CR 28 Clinical examination of the small intestine		
CR 29 Laparoscopic surgical instruments		

Bibliography for course and clinical rotation

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

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

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Knowledge of fundamental theoretical notions of the lectures Daily routine during the clinical rotations / activity / clinical case presentations /	100 questions out of which 60 questions with single choice answer and 40 questions with multiple choice answer	90 %
Clinical rotation	Knowledge and execution of main clinical maneuvers Ability of interpreting	Practical examination with the group coordinator Practical examination with the Professor /	Pass / Fail
	clinical and paraclinical investigations / formulation of a	Assoc Professor	Pass / Fail



	diagnosis and treatment options			
Minimum performance standard				
Minimal grad for passing: 5 (five)				

Date of filing Signature of the course tenured Signature of the seminar

coordinator tenured coordinator

Professor of surgery Mircea Assoc Professor Claudiu

Beuran MD, PhD, FACS Turculet MD, PhD

Date of approval in the Council of the Department:

Signature of the Head of the Department

Professor of surgery Traian Patrascu

MD, PhD