

SUBJECT OUTLINE

1. Program of study description

1.1. "CAROL DAVILA" UNIVERSITY OF	MEDICINE AND PHARMACY
1.2. FACULTY OF MEDICINE /CLINICAL	L DEPARTMENT
DISCIPLINE OF CARDIOLOGY AND	CARDIOVASCULAR SURGERY – University
Emergency Hospital Bucharest	
1.4. DOMAIN OF STUDY: Healthcare – reg	ulated sector within the EU
1.5. CYCLE OF STUDIES: BACHELOR'S	DEGREE
1.6. PROGRAMME OF STUDY: MEDICIN	E

2. Su	ıbject de	escrip	tion					
2.1.	Name	of	the subject/o	ompulsor	y subject/ele	ctive subject	within th	e discipline:
	CARD	OLO	GY					
2.2.	2.2. Location of the discipline: University Emergency Hospital Bucharest							
2.3.	2.3. Course tenured coordinator: Professor Dragos Vinereanu							
2.4.	2.4. Practicals/clinical rotations tenured coordinator:							
2.5.	2.5. Year IV 2.6. Semester I + II 2.7. Type of Exam with an 2.8. Mandatory						Mandatory	
of stu	of study assessment eliminative Subject							
						practical test and	classify-	
						a written test	cation	

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

5. I otal estimated time (nours/semester of didactic activity) – teaching module					
Number of hours per week	25h	Out of which: course	10h	Clinical rotation	15h
Total number of hours from curriculum	195h (39 days x 5h/week=19 5h)	Out of which: course	78h (39 daysx2h/ day=78h)	Clinical rotation	117h (39daysx3h/da y=117h)
Distribution of time resources	9 weeks	Out of which: -4 days cardiovascular surgery -2 days – final exam			Hours 5h/day
Study according to the discipline manual, course digital support, bibliographic references, and course notes					
Additional documentation at the library, on specialized electronic platforms and during the practical activity					
Preparing seminars / laboratories, assignments, reports, portfolios, and essays Futoring					
Examinations Examinations					
Other activities					
Total hours of individual study					
Number of credit points 11					



4. Prerequisites (where applicable)

rdiovascular system
sic knowledge of semeiology of cardiovascular

5. Requirements (where applicable)

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5.1. for delivering the course	Students receive in advance the digital support of		
	the course and the manual of the discipline in a		
	Goggle Classroom created especially for each		
	module.		
	The course takes place in an amphitheater of the		
	faculty of medicine, usually the amphitheater of the		
	University Emergency Hospital Bucharest.		
	The lecturers teach the course based on a digital		
	support in power point played on with an		
	appropriate equipment.		
5.2. for delivering the clinical rotation	Students carry out the practical activity according		
	to a protocol uploaded in the dedicated Google		
	Classroom and an instruction at the beginning of		
	the clinical rotation.		

6. Acquired specific skills

or required specific simils			
Professional competencies (expressed	At the end of this module students must understand the		
through knowledge and skills)	pathophysiology of cardiovascular diseases and must be		
	able to establish a correct diagnosis and a treatment plan		
	for the main cardiovascular patolgies.		
Transversal competencies (of role, of	The practical internship aims to:		
professional and personal development)	1. Develop the ability of students to collect		
	medical information from patients and to analyze		
	it in relation to the acquired theoretical		
	knowledge. More concretely, we consider training		
	students in the direction of establishing a correct		
	diagnosis of cardiovascular pathology, especially		
	for the most common diseases and for the most		
	serious situations.		
	2. Familiarize the students with deontological and		
	ethical problems of the medical profession		
	3. Stimulate team work		



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

Acquiring basic knowledge about the mechanisms, diagnosis and			
treatment of the main cardiovascular diseases.			
Acquiring correct communication with patients, performing a			
complete clinical examination of the cardiovascular system,			
recognizing the main rhythm disorders on the ECG, identifying the			
information that can be provided by the imaging methods for			
investigating the cardiovascular system, knowing how to care for			
patients with cardiovascular diseases both through conventional			
means, as well as through interventional ones.			

8. Content

8.1. Course	Teaching methods	Observations
CARDIOLOGY		
Course 1	Particularities of the clinical examination in cardiovascular pathology	2h – 1 course
Course 2-3	Normal and pathological electrocardiogram (ventricular hypertrophies; bundle branch blocks; electrocardiographic ischemia)	4h – 2 courses
Course 4-5	Imaging exploration in cardiac diseases	4h- 2 courses
Course 6	Rheumatic fever	2h – 1 course
Course 7-8-9-10	Valve diseases (mitral, aortic, tricuspid)	8h – 4 courses
Course 11	Congenital cardiac diseases	2h – 1 course
Course 12	Endocarditis	2h – 1 course
Course 13-14-15-16	Rhythm disorders	8h – 4 courses
Course 17-18-19	Arterial hypertension	6h – 3 courses
Course 20	Pericarditis – acute and chronic	2h – 1 course
Course 21	Atherosclerosis and its risk factors	2h – 1 course
Course 22	Chronic coronary syndromes	2h – 1 course
Course 23-24-25	Acute coronary syndromes	6h – 3 courses
Course 26-27	Myocarditis and cardiomyopathies (dilated, hypertrophic, restrictives)	4h – 2 courses
Course 28-29-30-31	Heart failure	8h – 4 courses
Course 32-33	Venous thromboembolic disease	4h – 2 courses
Course 34-35	Peripheral artery disease and aortic pathology	4h – 2 courses
Course 36-37	Cardio-respiratory resuscitation and sudden death	4h-2 courses
Course 38	Cardiovascular manifestations in systemic diseases	2h – 1 course
	TOTAL	38 courses = 76 hours



CARDIOVASCULAR SURGERY		
	Cardiac surgery – past, present and future	4h - 2 courses
	Indications and surgical treatments of	4h-2 courses
	valvular diseases	
	Indications and treatment of ischemic	2h − 1 course
	cardiac disease	
	TOTAL	5 courses – 10
		hours
	GENERAL TOTAL	43 courses – 86
		hours

8.2. Clinical rotation	Teaching methods	Observations
	Daily practical activity during which the	Assessment tests
	students are asked to examine patients, to	during the
	learn how to perform current	internship.
	investigations such as	
	electrocardiography, to know the meaning	
	and usefulness of specific investigations,	
	such as echocardiography and to	
	familiarize themselves with the way of	
	caring for patients with diseases	
	cardiovascular.	

Bibliography for course and clinical rotation: CARDIOLOGY, University Ed. "Carol Davila"

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 program of study

Correct training for medical practice and acquiring the necessary knowledge for the license and residency exam.



10. Assessment

Date of filing

Type of activity	Assessment criteria	Assessment methods	Assessment weighting	
			within the final grade	
Course	Knowledge of the	Questionnaire with 30		
	taught theoretical	items and 5 descriptive	The written exam has	
	concepts.	topics	the maximum weight	
Clinical rotation		Practical exam with	in the final evaluation;	
	The ability to establish	information gathering	+/- 2 points are	
	diagnoses based on	time - 20 min, thinking	adjusted depending on	
	clinical and paraclinical	time - 20 min and case	practical exam and	
	data.	presentation time - 20	internship activity	
		min		
Minimum performance standard				

Signature of the course tenured Signature of the seminar coordinator tenured coordinator

Date of approval in the Council of the Department:

Signature of the Head of the Department

At least 50% for each component of the evaluation.