



## SUBJECT OUTLINE

### 1. Programme of study description

1.1.	THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	THE FACULTY OF MEDICINE / THE 4 <sup>TH</sup> CLINICAL DEPARTMENT – CARDIOTHORACIC PATHOLOGY
1.3.	DISCIPLINE: CARDIOVASCULAR 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 subject/compulsory subject/elective subject within the discipline: Cardiovascular Surgery						
2.2.	Location of the discipline:						
2.3.	Course tenured coordinator:						
2.4.	Practicals /clinical rotations tenured coordinator:						
2.5. Year of study	IV	2.6. Semester	VII or VIII	2.7. Type of assessment	Included in the evaluation of the cardiology module	2.8. Subject classification	Compulsory

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

Number of hours per week	24	Out of which: course	8	Clinical rotation	16
Total number of hours from the curriculum	24	Out of which: course	8	Clinical rotation	16
Distribution of allotted time	4 days		6 hours /day		Hours
Study from textbooks, courses, bibliography, and student notes					
Additional library study, study on specialized online platforms, and field study					
Preparing seminars /laboratories, assignments, reports, portfolios, and essays					
Tutoring					
Examinations					
Other activities					
Total hours of individual study					
Number of credit points					

### 4. Prerequisites (where applicable)

4.1. of Curriculum	Fundamental knowledge of anatomy and physiology of the cardiovascular system
4.2. of competencies	General clinical examination of the patient, general surgical techniques, and maneuvers

### 5. Requirements (where applicable)

5.1. for delivering the course	The small amphitheater from the Emergency Institute for Cardiovascular Diseases “Prof. Dr. C.C. Iliescu” (equipped with a multimedia projector and possibilities of the live transmission of interventions from the cardiac operating room)
5.2. for delivering the clinical rotation	The cardiovascular surgery departments of the



Emergency Institute for Cardiovascular Diseases "Prof. Dr. C.C. Iliescu"

## 6. Acquired specific competencies

<b>Professional competencies (expressed through knowledge and skills)</b>	At the end of the module the student must know: - the spectrum of diseases treatable by cardiovascular surgery - the principles of diagnosis and treatment in this specialty At the end of the cardiology internship the student must be able to: - examine patients with cardiovascular diseases - interpret cardiac-related clinical and imaging examinations - make a diagnosis of syndrome or cardiovascular disease - propose a correct principle of treatment
<b>Transversal competencies (of role, professional and personal development)</b>	- developing the ability to work in a medical team - improving communication skills with patients and caregivers - development of empathy and professional deontology

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

<b>7.1. General learning objective</b>	Diagnosis and surgical treatment of cardiovascular diseases
<b>7.2. Specific learning objectives</b>	- Basic principles of surgical treatment in cardiovascular diseases - To which patients and diseases is cardiovascular surgery addressed - Results of cardiovascular surgery - Early and late postsurgical management of the cardiovascular patient

## 8. Content

<b>8.1. Course</b>	<b>Teaching methods</b>	<b>Observations</b>
Course 1	Valve surgery	
Course 2	Coronary surgery	
Course 3	Congenital heart disease surgery	
Course 4	Vascular surgery	
<b>8.2. Clinical rotation</b>	<b>Teaching methods</b>	<b>Observations</b>
CR 1-4	Pre- and postoperative patient examination	With an emphasis on the specifics of the discipline
	Cardiac surgery operating room Perioperative monitoring	Focus on specific devices and facilities
	Vascular surgery operating room	Focus on specific devices and facilities
	Postoperative care	
<b>Bibliography for the course and clinical rotation</b>		

## 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

At the end of the cardiovascular surgery sub-module, the student must be familiar with the main diseases treatable by this specialty, which contributes to his professional training to carry out a successful medical activity.

At the end of the cardiology module, the student will be able to correlate semiology with paraclinical investigations to make a correct diagnosis and establish a correct medical or /and surgical treatment.



#### 10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Knowledge of notions theoretical of matter	Questions included in the cardiology module exam	80%
Clinical rotation	Performance capability clinical examinations, and imaging and specification of diagnosis/treatment	Oral practical examination, at the end of the cardiology module	Eliminator (20%)
Minimum performance standard			

Date of filing

Signature of the course tenured coordinator

Signature of the seminar tenured coordinator

Date of approval in the Council of the Department:

Signature of the Head of the Department