Board Code and Name	**203: CARDIOVASCULAR SYSTEM AND DISEASES**
Term of the Board	2nd Semester / Spring Semester
Course Hours of the Board (Theoretical/Practical)	109/26
ECTS of the Board	8
Language of the Board	Turkish
Type of Board	Imperative
Board's Learning and Teaching Techniques	1. Theoretical Lecture 2. Practice/ Exercise 3. Assignments/ Research 4. Q&A 5. Argument 6. Observation 7. Team/Group Work
Measurement Techniques of the Board	1. Written Exam 2. Practice Exam
Responsible(s) of the Board	Assoc. Prof. Dr. Mustafa Çetin / Head of the Course Board: Assist. Asst. Prof. Ayşe İmge Uslu / Vice Chair of the Course Board Assist. Prof. Ayşe Demirçubuk / Vice Chair of the Course Board
Purpose of the Board	At the end of this board, students; normal structure, development and functions of the cardiovascular system, diseases related to this system to gain general knowledge about etiopathogenesis, symptoms, basic clinical and laboratory findings, diagnostic methods and drugs used in treatment; It is aimed to have knowledge about the basic approach to a clinical case and to be able to practice basic professional skills on a model or simulator.
Learning Outcome of the Board	1. To be able to count and distinguish the anatomical structures of the cardiovascular system 2. To be able to explain their embryological origins and development, respectively 3. To be able to describe their histological structures and physiological mechanisms 4. To be able to count the etiopathogenesis, symptoms, clinical, laboratory and histopathological findings of the main diseases related to the system 5. To be able to list the treatment methods applied in basic diseases related to the system and the effects, mechanisms of action, pharmacokinetics, side effects and drug interactions of the drugs used in general terms 6. Intravenous injection, blood collection and serum insertion, artery, vein, pulse examinations, ECG and heart sounds To be able to carry out the evaluation applications on volunteer students, model or simulator
Content of the Board	Normal structure, development, functions and pathophysiology of the cardiovascular system, diseases related to this system General information about etiopathogenesis, symptoms, basic clinical and laboratory findings, diagnostic methods and drugs used in treatment is given. In Vocational Skills Practices (MBU) courses organized in small groups; intravenous injection, blood collection and serum insertion, artery, vein, pulse examinations, ECG evaluation and heart sounds are performed. In the Clinical Case Evaluation (CODE) courses, which are taught in the form of discussions together, scientific approach to different cases Predictions are offered on the subject
Resources	1.Goodman and Gilman's The Pharmacological Basis of Therapeutics, 13th Edition 2.Basic & Clinical Pharmacology, 14e (Bertram G. Katzung) 3. Oğuz Kayaalp - Medical Pharmacology in Terms of Rational Treatment 1-2 4. Sobotta Atlas of Anatomy, Package, 16th ed 5. Guyton and Hall, Textbook of Medical Physiology (Guyton Physiology) 13th Edition, 6th Textbook of Medical Biochemistry (Full Colour) 7th ed. Edition 7. Harper's Illustrated Biochemistry, 28th Edition1. Gray's Anatomy The Anatomical Basis of Clinical Practice- Editor-in-Chief: Susan Standing, 41. Edition-Elsevier 8. Guyton and Hall Medical Physiology- John E. Hall Translation Editor: Berrak Ç. Yeğen, Güneş Medical Bookstores-13. Oppression 9. Clinical Aspects of Human Embryology- Keith L. Moore, T.V.N. Persaud, Mark G. Torchia Translation Editor: Hakkı Dalçik- 10. Print Nobel Medical Bookstore 10. Junqueira Basic Histology Topic and Atlas- Antony L. Mescher Translation Editors: Seyhun Solakoğlu, Aslı Erdoğan, Hasan Serdar Mutlu- 14. Printing Sun Medical Bookstores 11. Robbins Basic Pathology, Translation Editors S. Tuzlalı, M. Güllüoğlu, U. Çevikbaş, Nobel Medical Bookstore 12.Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 2-Volume Set, 11e 13.Hurst's the Heart, 14th Edition: Two Volume Set 14.Netter Atlas of Human Anatomy International Edition, 7th Edition 15.Nelson Textbook of Pediatrics, 2-Volume Set 21st Edition

Weeks	Board Courses (Theoretical/Practical)
1st Week	Anatomy (T), Histology/Embryology (T), Physiology (T), Pharmacology (T).
2nd Week	Biochemistry (T), Physiology (T), Anatomy (T), Pathology (T).
3rd Week	Physiology (T/U), Pathology (T), Anatomy (T/U), Clinical Approach (T/Cardiology, Pediatrics), Pharmacology (T), MBU (U).
4th Week	Pharmacology (T), Physiology (T/U), Clinical Approach (T/ Pediatrics, Cardiology), Pathology (T), Anatomy (U), Histology/Embryology (U), MBU (U).
5th Week	Pharmacology (T), Clinical Approach (T/ Cardiovascular Surgery, Cardiology), Pathology (T/U), Anatomy (U), MBU (U).
6th Week	Clinical Approach (T/CODE, Cardiovascular Surgery, Cardiology), Pharmacology (T), Anatomy (U), MBU (U).

Explanation:
T: Theoretical
U: Application
CODE: Clinical Case Review
MBU: Vocational Skills Practices

Number of Questions in the Board

Exam Type	Theoretical	Application
Board Exam	80	20
Finale	100	0
Integration	100	0

Evaluation System

Semester Studies	Number	Total Contribution (%)
Continuation	0	0
Laboratory	0	0
Application	2	8
Fieldwork	0	0
Course-Specific Internship (If Available)	0	0
Assignments	0	0
Presentation	0	0
Projects	0	0
Seminar	0	0
Board Exam	1	32
Finale	1	60
	Sum	**100**
Contribution of Semester Studies to Success Grade	0	0
Contribution of Final Studies to Success Grade	0	0
	Sum	**0**

Explanation: While calculating the contribution rates of the evaluation system**, SANKO University Associate Degree and Undergraduate Education and the Examination Regulation and the Faculty of Medicine Education and Measurement and Evaluation Directive are** valid.

Student Workload Table

Events	Number (weeks)	Duration (class hours)	Sum
Course Duration (Including Exam Week)	6	18	110
Laboratory	0	0	0
Application	4	7	28
Course-Specific Internship (If Available)	0	0	0
Fieldwork	0	0	0
Out-of-Class Study Time (Freelancing/ Group Study/ Pre-Study/ Reinforcement)	4	16	64
Presentation/Seminar Preparation	0	0	0
Project	0	0	0
Assignments	0	0	0
Board Exam	0	0	0
Final Exams	0	0	0
Total Workload	**14**	**41**	**202**

Associating the learning outcomes of the courses with the program competencies					
Program Qualifications	**1**	**2**	**3**	**4**	**5**
1. The basic structure, development and normal functioning of the human body molecules, cells, tissues, It explains at the organ and system level.					X
2. Questioning the abnormal structuring and functioning of the human body, qualified scientific Explains with research-based information, evaluates the causes of diseases, taking into account the interaction with the individual and his environment.			X		
3. Clinical decision-making and management processes of diseases and applications of evidence-based medicine evaluates under the guidance of.			X		
4. Define the concepts of health and disease in individual and social contexts, the search for health and health protection behaviors, national health service delivery and administrative processes.		X			
5. Know the research processes that form the basis of medical knowledge, follow the developments in this field Has a level of foreign language knowledge.					X
6. Takes medical history from the applicant/patient and their relatives.			X		
7. Performs physical examination of individuals, evaluates diagnostic tests, diagnosis and treatment It manages its processes by using appropriate process steps.	X				
8. Applies medical interventions for diagnosis, treatment or prevention of individuals.	X				
9. Medical and administrative data on health and disease obtained from individuals and society organizes and keeps records of context.	X				
10. For the protection and development of health in individual and social dimensions Plans and implements applications.		X			
11. Plans and implements a scientific research and evaluates its results.					X
12. Scientific and technological developments for professional and social changes It shows lifelong learning behavior by making use of it.					X
13. Language, religion, race, gender, social and cultural discrimination in the individual and society it serves fulfills his/her responsibilities as a physician within the framework of professional values, ethical principles and legal regulations.		X			
14. Work as a team with colleagues and other health professionals in the processes of protecting and developing health in individual and social dimensions and managing diseases.				X	
15. Protection and development of the health of the individual and society and the society of health care It strives to be realized for the benefit of the individuals who make it up.		X			
Description: Level of qualification: 1. Miscarriage 2. Low/medium 3. Middle 4. High 5. That's great					