

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

## Course Introduction and Application Information

Course Code:	TIP504		
Course Name:	Cardiology and Cardiovascular Surgery		
Semester:	Fall		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	Compulsory Courses		
Course Level:	<div> <div>Bachelor</div> <div>TR-NQF-HE:7. Master`s Degree</div> <div>QF-EHEA:Second Cycle</div> <div>EQF-LLL:7. Master`s Degree</div> </div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Prof. Dr. HİKMET KOÇAK		
Course Lecturer(s):	Prof. Dr. Hasan Turhan Prof. Dr. Müslüm Şahin Prof. Dr. Alp Burak Çatakoğlu Prof. Dr. Yelda Tayyareci Prof. Dr. Hüseyin Aksu Prof. Dr. Ömer Yiğiner Prof. Dr. Enis Oğuz Doç. Dr Tuğba		

	Kemaloğlu Öz Doç. Dr. Sabri Seyis , Prof. Dr. Ahmet Özkara Prof.Dr. Mustafa Bilge Erdoğan Dr Öğr.Üyesi Halil Hüzmeli
Course Assistants:	

## Course Objective and Content

Course Objectives:	It is to enable students to know the characteristics of cardiovascular and related diseases in adult patients, to apply preventive medicine measures, to pre-diagnose or diagnose the diseases that may require urgent intervention, and to gain knowledge and skills to provide diagnosis and treatment services at the first level.
Course Content:	It covers the symptoms and signs of cardiological diseases in adult patients, diagnosis and treatment as well as the principles of surgical treatment, in a way to cover the learning objectives specified in the Core Education Program in the fields of cardiology and cardiovascular surgery.

## Learning Outcomes

The students who have succeeded in this course;

- 1) Be able to question the symptoms of cardiovascular diseases with taking history and physical examination, recognize these symptoms in the examination, request and interpret the necessary tests at the first stage, treat certain problems, determine which patients should be evaluated by a specialist.
- 2) Be able to take the right approach to urgent symptoms and diseases (such as heart failure, acute myocardial infarction, arrhythmia, hypertension, cyanosis, dyspnea), make the diagnosis and make the first treatment and then send them to advanced centers under suitable conditions.
- 3) To understand the importance of good patient-physician and physician-physician communication and develop their skills.

## Course Flow Plan

Week	Subject	Related Preparation
1)	Theoretical Lectures Internship Presentation Cardiac anatomy Cardiac physiology Anamnesis and physical examination Basic ECG principles, normal ECG Rhythm disturbances ECG: Myocardial ischemia and acute myocardial infarction Cardiovascular diagnosis and treatment methods Cardiovascular risk factors and prevention Angina pectoris and its differential diagnosis Acute coronary syndromes (unstable angina, non-ST elevation MI, ST elevation MI) Pharmacological treatment of coronary artery disease Introduction to Open Heart Surgery CASE REPORT: Aortic valve disease Coronary artery disease Surgery I-II Bradyarrhythmias Tachyarrhythmias Atrial fibrillation and treatment approaches Heart failure Practical training: Bedside Training Clinical Training	There is no preparation-course material.
2)	Theoretical Lectures Heart valve diseases Valvular Heart Disease Surgery I-II Adult congenital heart diseases Congenital Heart Diseases I-II Aortic Vascular Diseases	There is no preparation-

	Cardiomyopathies Cardiomyopathies and Heart Transplant Pericardial diseases and myocarditis Infective endocarditis Hypertension and hypertensive emergencies Syncope - sudden cardiac death Pulmonary Edema and Cardiogenic Shock Lymphedema Functional Vascular Diseases Venous System Diseases Peripheral Artery Diseases I-II Heart and Major Vascular Injuries Practical training: Clinical Training	course material.
3)	Theoretical Lectures CASE DISCUSSION: Chest pain CASE DISCUSSION: Dyspnea, peripheral edema CASE DISCUSSION: Palpitations, syncope CASE REPORT: Acute arterial occlusion CASE REPORT: Congenital heart diseases CASE REPORT: Venous insufficiency Practical training: Clinical Training	There is no preparation-course material.

## Sources

Course Notes / Textbooks:	Dersin kaynak kitabı bulunmamaktadır. The course does not have a mandatory resource.
References:	Dersin konuları ile ilgili güncel makaleler ve ders slaytları./Articles mentioned in the course related with topics and lecture slides.

## Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3
Program Outcomes			
1) When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.			
2) knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.			
3) is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.			
4) knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.			
5) can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.			
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.			

7) can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	1	2	3
8) knows the clinical decision-making process, evidence-based medicine practices and current approaches.			
9) knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.			
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.			
11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.			
12) knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.			
13) can collect health data, analyze them, present them in summary, and prepare forensic reports.			
14) knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.			
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.			
16) knows health policies and is able to evaluate their effects in the field of application.			
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.			
18) applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.			

### Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

Program Outcomes	Level of Contribution
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1)	When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	
2)	knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.	
3)	is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	
4)	knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	
5)	can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	
9)	knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	
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17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	
18)	applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.	

### Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Final	1	% 65
Final Sözlü	1	% 35
<b>total</b>		<b>% 100</b>
PERCENTAGE OF SEMESTER WORK		% 35
PERCENTAGE OF FINAL WORK		% 65
<b>total</b>		<b>% 100</b>

### Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	3	36
Application	3	24
Special Course Internship (Work Placement)	3	24
Presentations / Seminar	3	24
Final	1	8
<b>Total Workload</b>		<b>116</b>