|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course title** | **Code** | **Semester** | **Type of course** | **Course volume (Contact hours)** | **ECTS** |
| **Cardiology** | **MED**  **5018** | **V** | **Mandatory** | **63** | **4** |
| **Faculty, the educational program and level of education** | * School of Medicine and Health Sciences * Higher Medical Educational Program “Medicine” * One cycle 6-year | | | | |

|  |
| --- |
| **Learning Course Content** |
| * Introduction to the program. Anatomy of the cardiovascular system. Physiopathology of the cardiovascular system. History Taking and Physical Examination. * Acute coronary syndromes. Coronary Artery Disease; Angina Pectoris. Cardiovascular Emergencies. ECG in patients with ACS. * Endocarditis. Pericarditis/Myocarditis. Primer hypertension. Seconder hypertension. The causes of hypotension. * Differential diagnosis of dyspnea. LV heart failure. RV heart failure. Heart murmurs. Differential diagnosis of palpitations. * Heart Rhythm Disorders-Supraventricular tachycardias. Heart Rhythm Disorders-Ventricular tachycardias. Heart Rhythm Disorders-Brady arrhythmias. Giorgi Nikolaishvili * Defibrillation; Pericardiocentesis. Sudden cardiac death. Cardiogenic Pulmonary Edema: Background, Etiology, Prognosis. Pulmonary Embolism. * Electrocardiogram (Basics). Electrocardiogram (ischemic heart diseases). Electrocardiogram (tachycardias). Electrocardiogram (Bradycardias). Electrocardiogram (mortal rhythms). * Cardiomyopathies; * Diagnostic tools in cardiology. * Adult congenital heart disease. Pulmonary hypertension * New developments in cardiology. Futuristic Approach to cardiology * Introduction to valvular heart disease. Mitral valve diseases. Tricuspid valve disease. * Aortic valve disease. Pulmonary valve disease. * Aortic Dissection; * Atherosclerosis; Invasive procedures in cardiology |
| **Textbooks and Materials** |
| * Harrison's Principles of Internal Medicine-Dennis L.Kasper;Stephan L.Hauser; Mc Graw Hill Education; 21th ed. 2021; V-1; V-2. * Braunwald's heart disease : a textbook of cardiovascular medicine-Douglas P. Zipes;Peter Libby; Philadelphia; 12th ed. 2022. * Cardiology-Fred F Ferri; George T Danakas;Philip J Alliota; PDxMD a Imprint of Elesevier Science; 2003. |