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| **Course title** | **Code** | **Semester** | **Type of course** | **Course volume (Contact hours)** | **ECTS** |
| **Circulatory and Respiratory System Disorders** | **MED****2007** | **III** | **Mandatory** | **79** | **5** |
| **Faculty, the educational program and level of education** | * School of Medicine and Health Sciences
* Higher Medical Educational Program “Medicine”
* One cycle 6-year
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| **Learning Course Content** |
| * **BIOCHEMISTRY** Metabolism of Porphyrines; Biochemistry of lipid hemostasis; Cardiac injury markers.; Atherosclerosis and dyslipidemias
* **CL. MICROBIOLOGY** Clostridium; Anaerobic Gram-negative Bacteria; Non–Spore-Forming and Spore forming Gram-Positive Bacteria. Systemic Mycoses Caused by Dimorphic Fungi.; " Upper Respiratory Tract Infections: Adenoviruses, Rhinoviruses, Orthomyxovirus, Paramyxovirus, Coronavirus, Hemophilus Influenza.; Lower Respiratory Tract Infections:Legionella; Streptococcus, E. coli, Chamidia pneumonia, C. Trachomatius, Micoplasma Hominis.; Laboratory diagnosis of respiratory tract infections."
* **PATHOLOGY** Heart: Introduction and Congenital Heart Diseases; Endocard and pathology of Heart valve disorders; Pathology of left and right heart failure and ischemic heart disease; Cardiomyopathies; Pathology of myocardial and pericardial diseases; Blood vessels: Vasculitis; Introduction and arterosclerosis.Hypertension, hypertensive heart disease, aneurism and dissection; Hypertension; ECG; Upper respiratory System Infections; Disorders of nose and paranasal sinuses, nasopharyngeal and pharyngeal disorders; Lung: Introduction, congenital anomalies, atelectasis; Acute lung injury; Chronic obstructive lung diseases, asthma, emphysema, bronchiectasis, chronic bronchitis; Pulmonary infections; Diffuse restrictive (interstitial) lung diseases; "Cardiovascular tumors; Lung tumors and pleura disorders.
* **Pathology IMMUNOLOGY** Vaccines and vaccination; Hypersensitivity reactions; HDN, FMAIT; Transplantation Immunity; Transphusion;
* **Pharmacology** Introduction to autonomic nervous system pharmacology; Pharmacology of PANS; Pharmacology of SANS; Antihypertensive Drugs; Antianginal Drugs; Antiarrhythmic Drugs; Cardiotonic drugs: glycosides, adrenergic agents, Heart failure treatment; Drugs with important actions on smooth Muscle: Histamine, Serotonin and Ergot Alkaloids; Vasoactive Peptides; The Eicosanoids and Related Compounds; Pharmacotherapy of Asthma;
* **RADIOLOGY** Cardiac Imaging and recognizing heart disease and mediastinal lesions; Thoracic Elementary Lesions: atelectasis, pleural effusion, pneumothorax, cysts, cavities, bullae, pulmonary nodüle, bronchogenic Ca; Recognizing airspace versus interstitial lung disease, pneumonia, obstructive and thromboembolic lung disease. Thoracic Emergency; Radiology Review
* **TOP. ANATOMY** Mediastinum: Mediastinum superior,Mediastinum inferior:its divisions; Mediastinum:Mediastinum posterius,pericardium; Thorax I: Region thoracicum anterior; "Thorax I: Region thoracicum anterior; Thorax II: Cavitas thoracis; visceral organs"
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| **Textbooks and Materials** |
| * Robbins Basic Pathology-Vinay Kumar; Abul K. Abbas; Elsevier; 10th. ed. 2018;
* Elsevier's Integrated Pathology- King C. Thomas; Mosby Elsevier; 2007;
* Clinically Oriented Anatomy- Moore,Keith L; Wolters Kluwer; 9th.ed. 2023;
* Medical Microbiology- Murray, Patrick R; Rosenthal, Ken S; 9th ed. Elsevier Sounder; 2021.
* Case Studies in Infectious Disease- Peter Lydyard; Garland Science; 2010;
* Basic & Clinical Pharmacology- Katzung, Bertram G; Mc- Graw Hill Education. 15th. ed; 2021.
* Lippincott Illustrated Reviews: Pharmacology- Karen Whalen; Wolter Kluwer; South Asian ed. 2019;
* Biochemistry: Lippincott's illustrated Reviews- Ferrier Denice R; Wolters Kluwer; 7th ed. 2017.
* Color Atlas of Biochemistry-Jan Koolman; Klaus-Heinrich Roehm; Thieme; 3rd.ed. 2013;
* Grainger & Allison's diagnostic radiology: a textbook of medical imaging-AndyAdam;Churchill Livingstone; 6th ed; 2015
* Introduction to Radiologic imaging sciences &patient care-Arlene M.Adler;Richard R.Carlton; Elsevier Saunders; 6th ed; 2016;
* Clinical skills- Nursing skills
* clinical Nursing skills&techniques- Anne Griffin Perry, Patricia A. Potter; Elsevier Mosby; 10th ed;2022.
* Taylor’s Clinical Nursing Skills: a nursig process approoach-Pamela Lynn; Wolters Kluwer ;9th ed.; 2023.
* Introduction to Pharmacology-Mary K.Asperheim;Justin Favaro; Elsevier Sounder. 12th.ed; 2012;
* Essentials of Medical Pharmacology-KD Tripathi; Jaypee Brothers Medical Publishers; 5th ed. 2003;
* Roitt’s Essential Immunology- Delves, Peter J; Martin,Seamus J; Wiley –Blackwell; 12th.ed. 2011;
* Medical Microbiology: A guide to microbial infections:Pathogenesis,Immunity,Laboratory Diagnosis and Control- David Greenwood;Mike Barer; Churchill Livingstone; 18th.ed. 2012;
* The ESC textbook of cardiovascular medicine-John Camm; Oxford University Press; 2nd.ed. 2009;
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