

**Study program:** Integrated Academic Studies in Dental Medicine

**Course title:** Internal Medicine

**Teachers:** Ilić A. Tatjana, Knežević V. Violeta, Mitić M. Igor, Popović S. Milica, Čelić M. Dejan, Bajkin A. Ivana, Ičin S. Tijana, Pejin D. Radoslav, Popović S. Đorđe, Stokić J. Edita, Savić S. Željka, Perčić Z. Ivanka, Savić D. Aleksandar, Sekulić R. Borivoj, Urošević M. Ivana, Bursać Daliborka, Vukoja N. Marija, Zarić M. Bojan, Zvezdin S. Biljana, Ilić P. Miroslav, Kašiković Lečić B. Svetlana, Kolarov P. Violeta, Kopitović Š. Ivan, Obradović S. Dušanka, Bjelobrč Marija, Ilić M. Aleksandra, Ivanov Đ. Igor, Kovačević V. Dragan, Miljković R. Tatjana, Petrović S. Milovan, Sakač B. Dejan, Stojšić Milosavljević Đ. Anastazija, Tadić J. Snežana, Čanković Z. Milenko, Čemerlić Adić B. Nada, Kolarov Bjelobrč N. Ivana, Nikolić V. Ivan, Aleksandra Milovančev, Aleksandra Vulin, Andrijana Milankov, Marina Dokić, Danijela Agić, Dimitrije Damjanov

**Course status:** compulsory

**ECTS Credits:** 4

**Condition:** General and Oral Pathology; Pathophysiology; Pharmacology; General Radiology (for taking the examination)

**Course aim**

The main objective of training in internal medicine in integrated studies of dentistry is the adoption of the current theoretical and practical expertise in internal medicine and training students to apply their knowledge in professional and scientific and research work. The development of critical thinking, independence in conducting diagnostic and therapeutic procedures and the development of skills for teamwork.

**Expected outcome of the course:**

Students will acquire basic knowledge in the field of internal medicine: pulmonology, cardiology, endocrinology, gastroenterology with hepatology, nephrology with clinical immunology, hematology, oncology diseases and the ability to recognize these organ systems diseases and basic of their treatment, as well as basic knowledge about taking care of critically ill patients. On the basis of this knowledge will be able to diagnose, plan and implement appropriate therapeutic procedures.

Students are enabled for both individual and team work to identify cardiac, pulmonary, nephrological, endocrine, gastrointestinal, hematologic and oncologic diseases, as well as the application of suitable diagnostic and therapeutic procedures.

**Course description**

*Theoretical education*

1. History taking, physical examination. 2. HEMATOLOGY Hematopoiesis. Anemia, iron deficiency, anemia, aplastic, megaloblast, hemolytic anemia. Agranulocytosis, myeloproliferative disease, myelodysplastic syndrome. Acute and chronic leukemia. Lymphoma, multiple myeloma. Hemorrhagic syndrome. Endocrinology. Diseases of the hypothalamus and pituitary gland. Diseases of the parathyroid glands and metabolic diseases of bones. Diseases of the adrenal glands. Obesity and hyperlipoproteinemia. Etiopathogenesis, clinical features and diagnosis of diabetes complications. Diabetes therapy. 3. NEPHROLOGY. Clinical syndromes and classification glomerulopathy. Glomerulonephritis, RPGN acute, persistent, chronic. Acute and chronic pyelonephritis, nephrolithiasis. Acute and chronic renal failure. Immune disorders and autoimmune diseases. Pharmacological and nutritional allergy. 4. GASTROENTEROLOGY. Methods of examination of the abdomen. Diagnosis of diseases of the gastrointestinal tract. Diseases of the esophagus. A hiatus hernia. Gastritis, peptic ulcer disease, gastric carcinoma. Diseases of the small intestine and colon. Diseases of pancreas, pancreatitis, pancreatic carcinoma. Diseases of the liver, hepatitis and cirrhosis. Diseases of the gallbladder, cholelithiasis, cholecystitis. 5. PULMONOLOGY. The history and physical tests, diagnostic radiology in pulmonology. Diagnostic bronchoscopy. Microbiological and allergological tests. Acute bronchopulmonary disease, pneumonia, bronchiectasis pulmonary thromboembolism. Obstructive pulmonary disease. The definition of chronic bronchitis. Definition and classification of emphysema. Bronchial asthma. Causes, pathophysiological mechanisms of respiratory failure. Acute and chronic respiratory failure, pleural disease, pleural effusions. Pulmonary tuberculosis. General and respiratory symptoms, clinical tuberculous pleurisy. 6. CARDIOLOGY. Symptomatology of the bloodstream. Etiology of heart and vascular diseases. Test methods for the cardiovascular system. Heart disorders: congenital and acquired. Rheumatic fever. Endocarditis. Acute and chronic pulmonary heart. Sincopal situation in cardiology. Arterial hypertension. Coronary disease and acute myocardial infarction, cardiac rhythm diseases of the arteries and veins. Heart failure and its treatment. Cardiopulmonary resuscitation. Prevention of cardiovascular disease.

*Practical teaching*

1. History of diseases.
2. Physical examination: vital signs, general inspection, inspection of the head and neck.
3. Diseases of the cardiovascular system.
4. Diseases of the respiratory system.

5. Diseases of the endocrine system and metabolic disorders.
6. Disorders of the gastrointestinal tract, liver and pancreas.
7. Kidney and clinical immunology diseases.
8. Diseases of the hematopoietic organs

**Literature**

*Compulsory*

1. Harrison's Principles of Internal Medicine, 21<sup>st</sup> Edition, 2022 (selected chapters according to the taught thematic units)
2. Lecture handouts and notes

<b>Number of active classes</b>	<b>Theoretical classes: 30</b>	<b>Practical classes: 45</b>
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**Teaching methods:** Theoretical and practical

**Student activity assessment** (maximally 100 points)

Pre-exam activities	Points	Final exam	points
Lectures	10	Oral	70
Practices	20		
Colloquium			
Essay			