

Faculty of Dental Medicine, University of Rijeka  
Course: Internal Medicine  
Course coordinator: Prof. Sanjin Rački, MD, PhD  
Department: Department of Internal Medicine  
Study program: Dental Medicine in English  
Study year: 3rd year  
Academic year: 2025/2026.

## **Syllabus**

### **Course description:**

Objectives of the course: acquisition of theoretical and practical knowledge in the field of internal medicine at the level of dental medicine doctors: epidemiology, classification, etiology and pathogenesis, pathological anatomy, clinical appearance, diagnosis, therapy and prognosis of internal diseases. Recognition of syndromes presenting diseases of internal organs. Mastering practical skills: clinical examination, specific laboratory and instrumental diagnostics of internal diseases. Developing a problem-oriented approach to internal medicine patients and differential-diagnostic thinking. Mastering modern diagnostic procedures in internal medicine, correct interpretation of test results. Planning and implementation of specific internal medicine therapy, analysis of treatment results and outcomes. Familiarity with invasive interventional procedures in internal medicine.

Expected learning outcomes: Mastering certain knowledge and skills at the level of general competence, i.e. recognizing the clinical appearance and suspecting a certain disease. Knowledge of practical skills on a theoretical basis.

The content of the course is as follows: Anamnesis and physical examination of the patient, Diagnostic tests in internal medicine, Special clinical propaedeutics in dental medicine, Ischemic heart disease, Chronic heart failure and pulmonary heart, Diseases of the respiratory system, Kidney parenchymal diseases and urinary tract infections, Arterial hypertension, Chronic kidney disease and chronic kidney failure, Diseases of the esophagus, stomach and duodenum, Diseases of the liver, small and large intestine, Hematological diseases and coagulation disorders, Metabolic syndrome and diabetes.

Conducting classes: Teaching is conducted in the form of lectures, seminars and clinical exercises. The expected duration of the course is one month. During the seminars and exercises, the teacher demonstrates basic theoretical and practical knowledge about methods of diagnosis and treatment of internal medicine patients. Teaching staff supervises the active participation of students in classes. At the end of the class, there is a written and oral exam.

### **List of literature:**

Lectures and seminars as original PPT presentations in PDF format will be available for students to download from the Share-point portal of the Faculty of Dental Medicine and

the Merlin platform, once they are held.

### **Curriculum:**

List of lectures (with titles and Explanation of learning outcomes):

P 1-3 Anamnesis and physical examination of the patient I Clarification and learning outcomes: mastery of history taking and physical examination techniques  
P 4-6 Anamnesis and physical examination of the patient II Clarification and learning outcomes: mastery of history taking and physical examination techniques  
P 7-9 Diagnostic tests in internal medicine Explanation and learning outcomes: covering the most important diagnostic tests in internal medicine  
P 10-12 Special clinical propaedeutics in dental medicine Clarification and learning outcomes: treatment of the most important symptoms and signs of disease in internal medicine  
P 13-16 Ischemic heart disease Clarification and learning outcomes: definition, classification, clinical appearance, diagnosis and treatment of ischemic heart disease  
P 17-20 Chronic heart failure and pulmonary heart Clarification and learning outcomes: defining chronic heart failure, classification and treatment, describing the concept of pulmonary heart  
P 21-24 Diseases of the respiratory system Clarification and learning outcomes: overview of diseases of the respiratory system, explanation of the most important entities  
P 25-28 Kidney parenchymal diseases and urinary tract infections Explanation and learning outcomes: overview of diseases of the urogenital system  
P 29-32 Arterial hypertension Clarification and learning outcomes: definition of arterial hypertension, classification, most important therapeutic measures  
P 33-36 Chronic kidney disease and chronic renal failure Clarification and learning outcomes: definition of chronic kidney disease, classification, stages, complications, methods of treatment and prevention  
P 37-40 Diseases of the esophagus, stomach and duodenum Explanation and learning outcomes: overview of diseases of the upper gastrointestinal tract, the most important manifestations and complications  
P 41-44 Diseases of the liver, small and large intestine Explanation and learning outcomes: treatment of liver diseases and diseases of the lower gastrointestinal tract  
P 45-48 Hematological diseases and coagulation disorders Explanation and learning outcomes: a brief overview of the most important hematological diseases and coagulation disorders  
P 49-50 Metabolic syndrome and diabetes Clarification and learning outcomes: definition of metabolic syndrome, methods of prevention and treatment, diabetes and its complications

### **List of seminar exercises with explanations and learning outcomes:**

S 1-3: Anamnesis and physical examination of the patient - practicing and acquiring the contents of the anamnesis and physical examination of the patient S 4-6: Emergencies in internal medicine - theoretical discussion and acquisition of practical knowledge from basic emergencies and patient care in internal medicine

S 7-10: Seminar work - solving the patient's problem independently  
 S 11-13 Seminar paper - solving the patient's problems independently  
 S 14-16 Seminar paper - solving the patient's problems independently  
 S 17-20 Seminar paper - solving the patient's problems independently

**List of exercises with explanations and learning outcomes:**

V 1-10 – History (anamnesis)  
 V 11-20 – History (anamnesis) - exercise  
 V 21-30 – Physical examination  
 V 31-40 - Physical examination - exercise

**Obligations of students:**

Students are obliged to regularly attend and actively participate in classes.

**Exam** (method of taking the exam, description of the written/oral/practical part of the exam, method of scoring, evaluation criteria):

**ECTS credit rating system**

Evaluation of students is carried out according to the valid Rulebook on studies of the University of Rijeka. The students' work will be evaluated and evaluated during the course and in the final exam. Out of a total of 100 points, a student can get 70 points during classes, and 30 points in the final exam. Students are evaluated using the ECTS (A-E) and numerical system (1-5). Grading in the ECTS system is carried out by absolute distribution, and according to the undergraduate grading criteria. The student acquires grade points by actively participating in classes, completing assigned tasks. The exam consists of a practical part - checking the knowledge acquired at the seminar exercises and exercises (checking is performed by the exercise leaders), a written part and an oral part - checking the theoretical knowledge during the exam deadlines.

**Other notes** (related to the course) important for students:

All possible additional detailed information and instructions can be continuously received by students during classes from the head of the course and all teachers and associates involved in the classes, by personal contact or by e-mail (the e-mail addresses of all members of the Department of Internal Medicine can be found on the Faculty's website)

**LESSON SCHEDULE (for the academic year 2025/2026)**

**Location: Department for Nephrology, Dialysis and Kidney Transplantation**

| Date        | Lectures<br>(time)                 | Seminars<br>(time) | Practicals<br>(time) | Lecturer                    |
|-------------|------------------------------------|--------------------|----------------------|-----------------------------|
| 23.10.2025. | P1-3 (12,00-14,15)<br>Lecture hall |                    |                      | Prof. Sanjin Rački, MD, PhD |

|             |                                     |                                             |                                                             |                             |
|-------------|-------------------------------------|---------------------------------------------|-------------------------------------------------------------|-----------------------------|
| 27.10.2025. | P4-12 (9,00-15,45)<br>Lecture hall  |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 28.10.2025. | P13-20 (9,00-15,00)<br>Lecture hall |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 3.11.2025.  | P21-28 (9,00-15,00)<br>Lecture hall |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 4.11.2025.  | P29-36 (12,00-18,00) Lecture hall   |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 5.11.2025.  | P37-44 (10,00-16,00) Lecture hall   |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 6.11.2025.  | P45-50 (12,00-16,30) Lecture hall   |                                             |                                                             | Prof. Sanjin Rački, MD, PhD |
| 7.11.2025.  |                                     |                                             | Practicals 1-20 (16,00-20,00)<br>Department for Nephrology  | Prof. Sanjin Rački, MD, PhD |
| 9.11.2025.  |                                     |                                             | Practicals 21-40 (10,00-15,00)<br>Department for Nephrology | Prof. Sanjin Rački, MD, PhD |
| 9.11.2025.  |                                     | Seminar 1-10 (16,00-20,00)<br>Lecture hall  |                                                             | Prof. Sanjin Rački, MD, PhD |
| 9.11.2025.  |                                     | Seminar 11-20 (10,00-15,00)<br>Lecture hall |                                                             | Prof. Sanjin Rački, MD, PhD |

**List of lectures, seminars and practicals:**

|        | <b>Lectures</b>                                | <b>Hours</b> | <b>Location</b> |
|--------|------------------------------------------------|--------------|-----------------|
| P1-3   | History talking (anamnesis)                    | 3            | Lecture hall    |
| P4-6   | Patient exam                                   | 3            | Lecture hall    |
| P7-9   | Diagnostic procedures in the internal medicine | 3            | Lecture hall    |
| P10-12 | Clinical propedeutics                          | 3            | Lecture hall    |
| P13-16 | Ishemic heart disease                          | 4            | Lecture hall    |
| P17-20 | Chronic hearts failure and pulmonary heart     | 4            | Lecture hall    |
| P21-24 | Respiratory diseases                           | 4            | Lecture hall    |
| P25-28 | Kidney and urinary tract                       | 4            | Lecture hall    |
| P29-32 | Arterial hypertension                          | 4            | Lecture hall    |

|        |                                       |           |              |
|--------|---------------------------------------|-----------|--------------|
| P33-36 | Chronic kidney disease                | 4         | Lecture hall |
| P37-40 | Gastrointestinal diseases I           | 4         | Lecture hall |
| P41-44 | Gastrointestinal diseases II          | 4         | Lecture hall |
| P45-48 | Hematologic and coagulation disorders | 4         | Lecture hall |
| P49-50 | Metabolic syndrome and diabetes       | 2         | Lecture hall |
|        | <b>Total hours</b>                    | <b>50</b> |              |

|     | <b>Seminars</b>    | <b>Hours</b> | <b>Location</b> |
|-----|--------------------|--------------|-----------------|
| SV1 | Seminar            | 10           | Lecture hall    |
| SV2 | Seminar            | 10           | Lecture hall    |
|     | <b>Total hours</b> | <b>20</b>    |                 |

|        | <b>Practicals</b>           | <b>Hours</b> | <b>Location</b>           |
|--------|-----------------------------|--------------|---------------------------|
| V1-4   | Anamnesis (history talking) | 4            | Department for Nephrology |
| V5-8   | Anamnesis (history talking) | 4            | Department for Nephrology |
| V9-12  | Anamnesis (history talking) | 4            | Department for Nephrology |
| V13-16 | Anamnesis (history talking) | 4            | Department for Nephrology |
| V17-20 | Anamnesis (history talking) | 4            | Department for Nephrology |
| V21-24 | Patient exam                | 4            | Department for Nephrology |
| V25-28 | Patient exam                | 4            | Department for Nephrology |
| V29-32 | Patient exam                | 4            | Department for Nephrology |
| V33-36 | Patient exam                | 4            | Department for Nephrology |
| V37-40 | Patient exam                | 4            | Department for Nephrology |
|        | <b>Total hours</b>          | <b>40</b>    |                           |

|    | <b>Final exam (dates)</b> |
|----|---------------------------|
| 1. | 12.11.2025.               |
| 2. | 12.01.2026.               |
| 3. | 6.7.2026.                 |