

<b>Subject</b>	Health care in patients with internal diseases using internal medicine, dermatology and infective disease??
<b>Program of studying</b>	Three years of professional study for nurse / technician
<b>Code</b>	SMS/T-211
<b>Academic year</b>	Second
<b>Semester</b>	Third
<b>Total classes</b>	385
<b>Credits</b>	17
<b>Type the subject</b>	Mandatory
<b>Preconditions</b>	Fulfilled condition for enrollment in second year
<b>Performed</b>	Clinic of Internal Medicine, Department of dermatology, Clinic for Infectious Diseases
<b>Professor in charge</b>	ass. prof. d-r Meri Trajkovska, prof. d-r Nada Petrova, prof. d-r Zvonko Milenkovic
<b>Address</b>	Department of Internal Medicine, Infectious Diseases and Dermatology Vodnjanska 17, 1000 Skopje tel: +389 2 147 167 e-mail: meritrajkovska@yahoo.com
<b>Key words</b>	Studies for nurses and technicians, professional subjects, medical care in patients with internal diseases, internal medicine, dermatology, infectious diseases
<b>Goals of studying</b>	To learn the basic principles of the health care in patients with internal disease To obtain the ability of applying in practice the learned theoretical knowledge from the field of internal medicine, dermatology and infectious diseases
<b>Summary</b>	<b>Theoretical Studies</b> <b>Medical care in patients with internal diseases (60 hours)</b> <ul style="list-style-type: none"> <li>• Health care in patients with cardiovascular diseases</li> <li>• Health care in patients with diabetes</li> <li>• Health care in patients with diseases of the blood and blood organs</li> <li>• Health care in patients with lung diseases</li> <li>• Health care in patients with gastrointestinal diseases</li> <li>• Health care in patients with rheumatologic diseases</li> <li>• Health care in patients with renal diseases</li> <li>• Health care in intoxicated patients</li> <li>• Health care in patients with skin diseases</li> <li>• Health care in patients with infectious diseases</li> </ul> <b>Internal medicine (60 hours)</b> <ul style="list-style-type: none"> <li>• Cardiology (10 hours)</li> <li>• Pulmonology (10 hours)</li> <li>• Gastroenterohepatology (10 hours)</li> <li>• Hematology (7 hours)</li> <li>• Nephrology (7 hours)</li> <li>• Endocrinology and metabolic disorders (7 hours)</li> <li>• Rheumatology (7 hours)</li> <li>• Toxicology (2 hours)</li> </ul> <b>Dermatology (10 hours)</b>

- Skin diseases caused by microorganisms (bacteria, viruses, fungi)
- Reactive and allergic disease of skin
- Autoimmune diseases of the skin
- Physical and chemical influences Pursuant of skin?, photodermatosi
- Benign and malignant diseases of skin
- Sexually transmitted diseases
- Skin diseases in children

#### **Infective diseases (10 hours)**

- Etiology, pathogenesis and clinical characteristics of the infectious diseases
- Antimicrobial Therapy
- Immunoprophylaxis
- Nosocomial infections, sepsis and septic shock
- Streptococcal and staphylococcal infections
- Infections in the gastrointestinal tract: salmonellosis, amebiasis, food poisoning, diarrhea (in travelers, post-antibiotic, in patients with immunodeficiency disorders, cholera, viral enterocolitis)
- Infections in RT?? pneumonia, legionellosis, pertussis
- CNS infections: purulent and serous meningitis, meningoencephalitis, encephalitis
- Diphtheria, tetanus, botulism
- Anthrax, plague, tularemia, toxoplasmosis
- Brucellosis
- Malaria
- Infections with: spirochete, rickettsiae, chlamydia, mycoplasma
- Viral infections (variola, varicella, morbilli, rubella; influenza, adenovirus; parotit, rabies, polio, enteroviruses, hepatitis viruses, mononucleosis, herpes virus, haemorrhagic fevers, HIV)

#### **Systemic fungal infections**

#### **Practice (225 hours)**

Practice is mandatory and it is performed in various departments under the guidance of a mentor teacher and a nurse responsible for that department. The student should be included in all activities in the field of health care during the whole time, and will keep a log of its activities.

#### **Theoretical classes (160 hours)**

**Practice:** stay during full work time (225 hours)

Interactive lectures, practice

#### **Knowledge and understanding**

The student will be acquired with the knowledge and understanding to the most frequent health problems in patients with internal disease and will be able to absolve the basic principles of medical care in that domain.

#### **Clinical skills**

The student will be able to apply the acquired theoretical knowledge in practice.

#### **Organization**

#### **Learning methods**

#### **Predicted results**

**Specific** The Student will be obliged to actively monitor all the necessary activities, including participation in ongoing knowledge checks to get a signature.

**recommendations for teaching** Scoring the student activities  
Type of activity

	Med. Care	Inter.	Scores	Derm.	Infec.
Theory			5-10		
Practice	9-18	-		-	-
Ongoing knowledge checks	10-15	5-13		2.5-4.5	2.5-7.5
Practical exam	26-32	-		-	-
Total			60-100		

Presence on theoretic lectures

51% - 60% - 5 points;

61% - 70% - 6 points;

71% - 80% - 7 points;

81% - 90% - 8 points;

91% -100% - 10 points.

Practical course (225 hours): every class worth 0.08 points

presence - 0.04 points

activity - 0.04 points

#### **Continuous knowledge checks (tests)**

The student is required to regularly attend theoretical and practical teaching so he/she can approach continuous knowledge checks. The checks are in written form (multiple-choice test). The student must take the test; otherwise he/she will not acquire the right of the signature at the end of the semester. The student is required to win a minimum score on two continuous checks before taking the final exam. If the student passes one or two of three tests, he/she can take the final exam. If the student does not pass the three tests, he/she has no right to take the final exam.

#### **Final exam**

Students who have passed three tests can take the final exam (practice). It is performed in test term (January / February, June / July and / or August / September). The exam contains three tasks (skill which the student needs to perform). Taking the practical exam is allowed only if the student completed the practical course, received the signature and won minimum points from the two tests. The student selects a department where he/she will take the practical exam randomly.

#### **Kompleten Final exam?**

The student can take the final exam if he/she did not win minimum score (60%) on one or two of the three tests. The exam contains of a test that he/she did not pass and of a practical part of the exam. The student is obliged to pass the test and then he/she can proceed taking the practical part of the exam. If the student does not pass the test, he/she has no right to take the practical part of the exam, so the exam will not be evaluated.

### **Establishing full assessment ??**

Assessment of the overall exam is obtained according to the table estimates, based on the sum of points from all activities, including the continuous knowledge checks and practical exam. The results from the passed tests as a condition of taking the final exam are valid for six consecutive sessions (regardless of whether the student approached to take the final exam), after which the student preslushuva??? matter. After the student has completed all obligations that are included in the assessment, the professor in charge shapes the overall score and writes the mark in the student's index.

### **Part-time students**

It is performed 40% of the predicted theoretical lectures and 40% of the intended practice. Practice is organized in accordance with the agreement with the students.

The exam is conducted in exam sessions and includes:

- multiple-choice test: internal medicine + dermatology + infective diseases
- three essays: healthcare
- three case reports

the practical part of the exam is performed after the student passes the tests, otherwise the same rules are applied as the ones for the regular students.

Assessment of the overall exam is obtained according to the table estimates, based on the sum of points from all activities.

### **Textbooks**

#### **Basic:**

Selected chapters V. Serafimovski Internal Medicine, editor. Kumanovo: Macedonian Treasury, 2003

Selected chapters A. Aleksandar, ? Gočev, Lj. Pavlova, N. Petrova.

Dermatovenerology, Culture, Skopje, 2005

M. Vlckova-Laskova and A. Starova. Clinical dermatovenerology with practicum for students and doctors, HIB Dresco, Skopje, 2000

Authorized lectures from the Chair.