



**“CAROL DAVILA” UNIVERSITY
OF MEDICINE AND PHARMACY BUCHAREST**
Faculty of Dentistry
Dental Medicine in English



DISCIPLINE GRID

1. Programme:

1.1.	CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY / 2nd DEPARTMENT
1.3.	DIVISION: Internal Medicine
1.4.	STUDY DOMAIN: Health, sectoral regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline:

2.1.	DISCIPLINE NAME: MEDICAL SEMIOLOGY						
2.2.	LOCATION: THE COUNTY EMERGENCY CLINICAL HOSPITAL ILFOV						
2.3.	Lectures tenure: Assoc. Prof. Laura Carina Tribus (MD, PhD)						
2.4.	Practical classes tenure: Assoc. Prof. Laura Carina Tribus (MD, PhD) Lecturer Gabriela Anca Angelescu (MD, PhD) Assistant Lecturer Corina Costache (MD, PhD) Assistant Lecturer Andreea Maria Calapod (MD, PhD)						
2.5. Study year	II	2.6. Semester	IV	2.7. Evaluation	Exam	2.8. Type of discipline	CD/DD

3. Estimated total time (hours/semester)

No. hours/week	4	out of which	Lectures: 2	Laboratory session: 2
Total hours out of learning schedule	56	out of which	Lectures: 28	Laboratory sessions: 28

Time distribution	hours
Textbook study, lecture support, bibliography and notes	20
Supplementary documentation activity in the library, on online platforms	10
Practical activity support material, homework, portfolio and essays	7
Tutorial activity	2
Examinations	3
Other activities	2
Total hours of individual study	44
Total hours per semester	100
Credits	4

4. Preconditions

4.1. curriculum	Knowledge of - human anatomy - human physiology and pathophysiology - general and clinical pharmacology
4.2. proficiencies	Knowledge of - the patient's management

5. Conditions

5.1. for lecture activity	Lecture hall with a capacity of minimum 70 seats, computer, overhead projector
5.2. for laboratory activity	Hospital wards, clinical laboratory, radiology and ultrasound offices

6. Accumulated skills

6.1. Proficiencies <i>(knowledge and abilities)</i>	<p>I. Knowledge (cognitive dimension) Skills acquired by the student:</p> <ul style="list-style-type: none"> ▪ the ability to recognize the main symptoms, signs and syndromes in medical semiology ▪ the ability to make an accurate diagnosis specific to Internal Medicine ▪ the ability to make a differential diagnosis ▪ the ability to recognize (identify) very complex cases and refer them to colleagues holding the required competencies to solve the case <p>II. Abilities (functional dimension)</p> <ul style="list-style-type: none"> ▪ the ability to perform a full and accurate clinical examination in the field of Internal Medicine ▪ the ability to perform the main clinical maneuvers typical of Internal Medicine
6.2. Transversal skills <i>(role, professional and personal development)</i>	<p>III. Role skills</p> <ul style="list-style-type: none"> ▪ The identification of the sought-after objectives, of the available resources, of the conditions regarding their achievement, of the work stages, of the working times, of the corresponding terms for completion and related risks <p>IV. Professional and personal development skills</p> <ul style="list-style-type: none"> ▪ The identification of the roles and responsibilities in a pluridisciplinary team and the implementation of efficient communication and working techniques within the team and in the relation with the patient. ▪ The efficient use of information sources, of assisted communication and professional training resources

7. Objectives (based on the grid of acquired specific skills)

7.1. General Objective	The Medical Semiology course and practical internship aim at presenting the general and specific data on each body system, in terms of the signs, symptoms and syndromes, in order to acquire the necessary skills required for the clinical examination; the drafting of a full and rigorous case study, the practical acquaintance with the patient
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	<ul style="list-style-type: none"> - They will acquire general knowledge on the Internal Medicine-specific pathology; - They will establish the most efficient means of communication with the patient and they will further develop the required skills for the examination of the patient, in order to make an accurate Internal Medicine diagnosis - They will be able to choose the best treatment plan for the various clinical forms of Internal Medicine diseases as well as for medical emergencies. - They will improve their practical skills in order to be able to cover the clinical stages of the diagnosis and treatment of Internal Medicine diseases
7.2. Specific Objectives	<p>The students will set a trustworthy relation with the patients, in order to make the case history and perform the clinical examination;</p> <p>At the end of the course, the students will be able to:</p> <ul style="list-style-type: none"> - make an accurate diagnosis of the clinical elements falling under the scope of Internal Medicine. - establish the best treatments for the diseases and emergencies of Internal Medicine - indicate the best attitude when facing medical emergencies

8. Content

8.1. Lectures	No. hrs/topic	Teaching method	Obs.
Lecture 1. The definition of semiology. Study objective. Diagnosis. Prognosis. Symptom. Sign. Syndrome. The observation chart, the general data, the reasons for admission, the family medical history, the personal-physiological and pathological history, the anamnesis	2	The interactive presentation of the material according to the syllabus, using multimedia means, power point presentations, movies related to the teaching activity	
Lecture 2. General signs –fever, hypothermia, headache, asthenia, Objective clinical examination: Inspection: Consciousness; positions; edema, nutritional status, constitution, size, Percussion: technique; audible, dim, tympanic sound; Palpation: technique; transmission of vibrations; Auscultation: technique: areas; types of sounds	2		
Lecture 3. THE CLINICAL EXAMINATION OF THE BODY SYSTEMS: Semiology of the skin and skin appendages: changes in the color of the integuments, jaundice, cyanosis, pigmentary skin changes, skin hemorrhages, skin vascularization changes; cutaneous rashes, nodules, trophic skin disorders, changes in the sudoriferous secretion, semiology of the nails, semiology of the hair, gait analysis, facies, semiology of the eyes, height changes, nutritional status, constitution, semiology of the lymph nodes	2		
Lecture 4. SEMIOLOGY OF THE RESPIRATORY TRACT: peculiarities of the anamnesis in the semiology of respiratory tract disorders; personal history; causes of thoracic pain; peculiarities of thoracic pain; examples of thoracic pain; dyspnea, special breathing patterns, cough, expectorations, vomit, hemoptysis, cyanosis	2		
Lecture 5. RESPIRATORY TRACT SEMIOLOGY Objective examination of the respiratory tract disorders: inspection, percussion, palpation, auscultation, superadded respiratory sounds, paraclinical respiratory tract investigation methods	2		
Lecture 6. MAIN PLEUROPULMONARY SYNDROMES: bronchitis syndrome, the clinical syndrome in bronchiectasis, lung condensation syndrome, cavitary syndrome, lung abscess, lung hyperaeration syndrome (alveolar distention syndrome), bronchial asthma, pulmonary emphysema, pleural syndromes, pleuritis,	2		

pleural fluid effusion syndrome = pleurisy, pleural symphysis syndrome, pleural air effusion syndrome = pneumothorax, mediastinal syndrome			
Lecture 7. SEMIOLGY OF THE CARDIOVASCULAR SYSTEM: Key signs and symptoms: cardiac dyspnea, palpitations, cardiac pain, peripheral vascular pain, cardiac cough, loss of consciousness	2		
Lecture 8. CARDIAC PHYSICAL EXAMINATION: Inspection; Palpation; Percussion; Auscultation. Additional heart sounds, the general murmur production mechanism, the examination of the arteries, the clinical examination of the veins; paraclinical cardiovascular system investigation methods	2		
Lecture 9. CARDIOVASCULAR SYNDROMES: Pericardial syndromes, myocardial syndromes, coronary failure syndromes: exertional angina, acute myocardial infarction. High blood pressure syndrome. Low blood pressure syndrome. Cardiac failure syndrome	2		
Lecture 10. CARDIOVASCULAR SYNDROMES: Mitral stenosis, mitral failure, mitral valve disease, aortic stenosis, aortic failure	2		
Lecture 11. DIGESTIVE TRACT SEMIOLOGY: THE OBJECTIVE EXAMINATION OF THE DIGESTIVE TRACT: General inspection, integument inspection, lip inspection, gum inspection, buccal cavity inspection, oral cavity inspection, tongue examination, the examination of the floor of the mouth, the examination of the palate, the inspection of the soft palate; changes in the pharynx and tonsils; the examination of the abdomen: inspection, palpation, percussion, auscultation of the abdomen	2		
Lecture 12. DIGESTIVE TRACT DISORDER SYMPTOMS: appetite disorders, nausea, vomiting, hematemesis, abdominal pain DIGESTIVE DISORDER SIGNS: Changes in the stool, changes in the taste, halitosis changes, painful tongue, eructation, hiccupping, abdominal meteorism	2		
Lecture 13. Semiology of the liver: ascitic syndrome, hepatocellular failure syndrome, portal hypertension syndrome. Semiology of the spleen. Semiology of the pancreas	2		
Lecture 14. RENAL TRACT SEMIOLOGY: Family medical history, personal pathological history Symptomatology of renal disorders: diuresis disorders, urinary disorders. Urinary signs. Physical examination of the renal-urinary tract. Paraclinical examination of the renal tract. Renal syndromes. URINARY TRACT SYNDROMES: glomerular nephropathy syndrome, nephrotic syndrome, interstitial nephropathy syndrome (acute and chronic pyelonephritis), tubular syndromes, vascular renal syndromes, acute renal failure syndrome, chronic renal failure syndrome	2		

8.2 Laboratory Sessions	No. hrs/topic	Teaching method	Obs.
LP 1. Presentation of the observation chart. Symptom, sign, syndrome. Diagnosis	4	Clinical demonstrations regarding the examination of the patients with internal	
LP 2. General objective examination – inspection, palpation, percussion, auscultation	4		
LP 3. Examination of the integuments, mucosae, eyes, skin appendages, lymph nodes	4		

LP 4. Main respiratory syndromes. Objective examination of the respiratory tract	4	medicine-specific disorders. Depending on the hospitalized cases, the practical internship approaches the concrete data regarding the diagnosis, evolution and treatment principles for the aforementioned disorders. The weekly records kept for the admitted cases helps cover all the practical aspects of the pathology presented during the course	
LP 5. Main cardiovascular syndromes. Objective examination of the cardiovascular system BP measurements	4		
LP 6. The objective examination of the oral cavity and abdomen. Clinical examination of the liver, pancreas and spleen	4		
LP 7. Objective examination of the renal tract	4		

8.3. Bibliography for lectures and laboratory/practical sessions

Bibliography for the lecture and the practical courses

- 1. The current lecture**
- 2. Semiologie medicală și diagnostic diferențial** (*Medical semiology and differential diagnosis*), Ion I. Bruckner, Editura Medicală, **2021**
- 3. Semiologie medicală** (*Medical semiology*), Ion Dina, Editura Universitară Carol Davila, București, **2018**
- 4. Semiologie medicală** (*Medical semiology*), Letiția Adela Maria Streba, Editura Universitară Craiova, **2013**
- 5. General Medical Semiology Guide**, part I, Manuela Stoicescu, Academic Press, **2019**
- 6. Semiologie medicală pentru medicina dentară** (*Medical semiology for Dentistry*), Angela Vlădan Sopa, Editura Medicală, **2005**
- 7. Clinical Semiology**, First English Edition, Dorel Sâmpolean, Călin-Vasile Vlad, Bioflux Publishing House, Cluj-Napoca, **2019**

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program

The knowledge of the main signs of manifestation of the diseases is mandatory for the accurate diagnosis of the internal medicine diseases and in order to adopt the therapeutic attitude suitable for each patient

10.Evaluation

10.1 Evaluation			
Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	<p>A. Knowledge for mark 5: - 50% of corrected answers – test containing 30 multiple questions</p> <p>B. Additional knowledge for mark 10 90% of correctec answers - test containing 30 multiple questions written paper: extended topics aiming at assessing the logical acquisition of the taught information. The topics cover all the main chapters.</p>	Exam	90%
Laboratory Sessions	<p>A. Knowledge for mark 5: - the indication of the sign/symptom exhibited by a specific patient</p> <p>B. Additional knowledge for mark 10 practical examination: maneuvers - there is a grading scale for the maneuvers that the student must be familiar with</p>	Practical assessment	10%
Minimum performance standards			
The student must acquire at least half of the fundamental notions presented during the lecture, which should be presented as part of the written paper, and at least half of the practical maneuvers/techniques.			

Date:

7th of September 2023

**Chair of Internal Medicine Division,
Assoc. Prof. Laura Carina TRIBUS (MD, PhD)**

**Date of the approval in
Department Board:**

**Department director,
Prof. Alexandru BUCUR (MD, PhD)**