TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**MEDICAL SEMIOLOGY (I)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Ileana Drăgoescu, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Course	**Ileana Drăgoescu, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Ileana Drăgoescu, M.D., Ph. D., Lecturer** **Radu Valentin Coltuc, M.D., Ph. D., Lecturer** **Pandelea-Dobrovicescu George Răzvan, M.D., Ph. D., Univ. Assistant**					
Discipline Code	**MLE.3.5.1**	Formative category of the discipline		**DS**		
Year of Study	**3**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**7**

No. of Hours per week	**7**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**5**
Total of hours in the curriculum	**98**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**70**
		Total hours per semester	**175**	Total hours of individual study	**77**

Distribution of time pool per week	**Hours**
1. Study of the course material	15
2. Study according with the course support, manuals	20
3. Study of the minimal bibliography	10
4. Additional documentation in the library	5

5. Specific activity for the seminary or laboratory	10
6. Homeworks, translations, etc.	0
7. Prepairing for different witten exams	0
8. Prepairing for oral examinations	0
9. Prepairing for the final examination	5
10. Consultations	5
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	7
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	**MEDICAL SEMIOLOGY (I)**
Specific professional competencies	- Correct medical terminology - Acquiring the skills necessary for the detection and interpretation of symptoms and signs of human ailments (Anamnesis), - The incorporation of methods and techniques of clinical examination (Inspection, Palpation, Percutia, Auscultation) and paraclinical (Clinical Laboratory, Medical Imaging) for the final diagnosis (of syndrome and then of diagnosis of disease).
Transversal competencies	- The activities carried out during the clinical stage aim to develop the spirit of the medical "team", i.e. to acquire the ways of external communication regarding the clinical situations studied, with the emphasis on the way of oral and written communication, including through the use of modern information systems. The emphasis is on empowering students in decision-making, linking with other members of the collective. Students are determined to become aware that specialized training becomes a permanent obligation, throughout their medical career, this being an essential condition in maintaining working standards, constantly respecting codes of good practice and maintaining within the limits of professional ethics.
General objectives of the discipline	- The incorporation of fundamental notions that represent the object of activity of medical semiology, the discipline dealing with the study of symptoms and signs of human diseases, the methods of clinical examination and some techniques of paraclinical investigation.
Specific objectives of the discipline	- The use of methods and techniques of clinical examination (Inspection, Palpation, Percution, Auscultation) and paraclinical (Clinical Laboratory, Medical Imaging) for the final diagnosis (of syndrome and then of diagnosis of disease).

Course Syllabus	**Hours**
1. Definition and object of medical semiology Definition of the following notions: medical semeology, symptom, clinical sign, clinical examination (objective), clinical diagnosis, syndrome and disease.	4
2. Anamnes - methods and types of anamnesis. Observation sheet; patient approach; the account; interrogation - data recording, observation sheet; interpretation of anamnesis; the importance of anamnesis;	10

Course Syllabus	Hours
3. Technical stages of the anamnesia	8
4. CLINICAL EXAMINATION / GENERAL OBJECTIVE Methods and technique of objective examination: inspection, palpation; percussion; auscultation;	2
5. STAGES OF THE GENERAL OBJECTIVE EXAMINATION: PSYCHIC STATION Perception disorders; Manoeuvring tubes; Thinking disorders; The disorders of affection; Consciousness disorders;	2
6. STAGES OF THE GENERAL OBJECTIVE EXAMINATION : CONSTITUTIONAL TYPE Static and dynamic changes: Attitude; Dynamic disorders; Physiognomy and facies; Changes in the color of the skins;	2
7. **Stages of the general objective examination** : primary **primary injuries; superficial and profund ganglionary system** Skin haemorrhages; food disorders; collateral circulation; the state of nutrition; edema; adenopathy	2
8. Semiology of the locomotor apparatus Characteristics of anamnesis: symptoms in diseases of the musculoskeletal system Complementary examinations: radiological examination; biological examinations (examination of the joint fluid); biological examinations (sanghines); histopathological examinations.	2
9. Semiology of the respirator apparatus - Symptoms (pain, breathlessness, cough, sputum, hemoptysis); - Clinical examination / general objective (attitude, facies, mental state, changes in skin and mucous membranes, edema, collateral venous circulation, adenopathy); - Objective examination of the respiratory system; - Complementary investigations: pleural puncture; radiological examination; respiratory functional samples;	2
10. Ulmonary condensation syndrome	2
11. Pleural syndrome	2
12. Bronsic syndrome	2
13. Bronsic syndrome	2
14. Mediastinal syndrome	2

Laboratory Syllabus	Hours
1. **Anamnesis. Preparation of the observation sheet – practical demonstration.** General symptoms: fever, chills, headache, asthenia, sweating, itching, thirst, balance disorders, pain. Examples at the patient's bed. Methods of objective examination – practical demonstration. Current investigations. General inspection, changes in stature, constitutional types. Face exam and some types of facies. Examples at the patient's bed.	2
2. **Examination of skins and mucous membranes.** Paleness and redness of the skin, cyanosis, jaundice, pigmentation disorders and elementary skin lesions. Changes in hair and angle. Examples at the patient's bed. Examination of subcutaneous cell tissue. Generalized, regional and localized edemas. Changes in body weight: obesity and weight loss. Examples at the patient's bed. Objective examination of striated muscles, bones and joints – practical demonstration. Clinical presentations of patients with rheumatic diseases: acute articular rheumatism, rheumatoid arthritis, seronegative spondylarthritis, gout, psoriatic arthritis, arthrosis.	2
3. **Clinical presentations of patients with major collagenosis.** Lymph node examination – practical demonstration. Types of adenopathy and methods of exploration. Anamnesis,	2

Laboratory Syllabus	Hours
objective examination and methods of exploration in blood diseases – practical demonstration. Clinical presentations of patients with various types of anemia.	
4. **Clinical presentations of patients with major collagenosis.** Lymph node examination – practical demonstration. Types of adenopathy and methods of exploration. Anamnesis, objective examination and methods of exploration in blood diseases – practical demonstration. Clinical presentations of patients with various types of anemia.	2
5. **Anamnesis and local symptoms in respiratory diseases.** Objective examination of the respiratory system – practical demonstration. Presentation of exploration methods in respiratory diseases.	2
6. **Clinical presentations of patients with bronchitis syndrome, alveolar distension syndrome (bronchial asthma, pulmonary emphysema) and pulmonary condensation syndrome.** Clinical presentations of patients with pleural syndromes. Pleural puncture – practical demonstration. Pleural fluid examination – examples.	2
7. **Clinical presentations of patients with broncho–pulmonary suppuration syndromes, cavitary syndrome, acute and chronic respiratory failure.** Clinical manifestations and methods of exploration in mediastinal syndrome and pulmonary hypertension.	2
8. **Anamnesis and local symptoms in cardiovascular diseases.** Objective examination and methods of exploration of the cardiovascular apparatus – practical demonstration. Clinical presentations of patients with congenital valvulopathies and cardiopathies. Clinical presentations of patients with rhythm and driving disorders. Read and interpret ECG.	2
9. **Clinical presentations of patients with chronic painful ischemic cardiopathy (exercise angina, unstable angina, myocardial infarction) and cardiomyopathy.** Clinical presentations of patients with pericardial syndromes. Pericardial puncture. Clinical presentations of patients with hypertension and hypotension. Clinical presentations of patients with heart failure, arterial syndromes and venous syndromes.	2
10. **Anamnesis and local symptoms in digestive diseases.** Objective examination and methods of exploration of the digestive system – practical demonstration. Clinical presentations of patients with esophageal syndrome, dyspeptic syndrome, gastritis syndrome and ulcerative syndrome. Clinical presentations of patients with constipation syndrome, diarrheal syndrome and ano-rectal syndrome.	2
11. **Anamnesis in liver diseases.** Objective examination of the liver – practical demonstration. Hepatomegalia, atrophic liver, methods of exploration – examples at the patient's bed.	2
12. **Jaundice syndrome, portal hypertension syndrome, ascites, hepatic failure syndrome and portal encephalopathy - examples at the patient's bed.** Abdominal puncture – practical demonstration.	2
13. **Anamnesis in biliary suffering, objective examination and methods of exploration.** Clinical presentations of patients with biliary syndromes. Anamnesis in pancreatic suffering, objective examination and methods of exploration – practical demonstration. Clinical presentations of patients with pancreatic syndromes.	2
14. **Anamnesis and local symptoms in kidney diseases. Objective examination and methods of exploration of the renal apparatus – practical demonstration.** Clinical presentations of patients with various kidney diseases	2

Minimal References:
1. Bruckner I. – Semiologie medicală, Editura Medicală, Bucureşti, 2002.

Minimal References:	
2.	Ciobanu V., Stroescu I., Urseanu I. – Semiologie şi diagnostic în reumatologie, Editura Medicală, Bucureşti, 1991.
3.	Ciurea P., Ciurea T. – Bolile aparatului digestiv, Editura Didactică şi Pedagogică R.A., 1999.
4.	Ciurea P., Ciurea T. – Hepatologie clinică, Editura Medicală Universitară Craiova, 2000.
5.	Georgescu D. – Semeiologie Medicală, Editura Naţional, 2004.
6.	Georgescu M., Ciurea T., Georgescu E. – Semiologie Medicală, Editura CARDINAL, Craiova, 1995.
7.	Isselbacker K., Braunwald E., Wilson J., Martin J., Fanci A., Kasper D. – Harrison's Principles of Internal Medicine, Mc. Graw & Hill, 1998.
8.	Moldovan T. – Semiologie Clinică Medicală, Editura Medicală, Bucureşti, 1993.
9.	Suportul de curs predat

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- The incorporation of the concepts taught in the course and the practical works is supported by the exposure in the didactic and scientific materials of the discipline, courses, guidance in which are taken the latest data from the national and international literature corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- MSOffice Power-Point Presentation
Laboratory	- In the hospital ward of the medical ward, sometimes in the classroom for applied seminars/practical works

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- Proper anamnesis and clinical examination to establish the correct clinical diagnosis

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	60 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	0
- Other activities:	0

Description of the actual methods of examination – E

- Oral examination on a ticket based system with 3 topics to be presented.

Minimal requirements for grade 5	**Requirements for grade 10**
• Proper performance of anamnesis and clinical examination by completing the diagnosis	• Correct response to all subjects of oral examination

Date of completion

25.09.2019

Discipline Coordinator,	**Head of the Department**,
Ileana Drăgoescu, M.D., Ph. D., Lecturer	Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,	**Laboratory Coordinator**,
Ileana Drăgoescu, M.D., Ph. D., Lecturer	Ileana Drăgoescu, M.D., Ph. D., Lecturer Radu Valentin Coltuc, M.D., Ph. D., Lecturer Pandelea-Dobrovicescu George Răzvan, M.D., Ph. D., Univ. Assistant

Department approval date

30.09.2019

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**SURGICAL SEMIOLOGY (I)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Cochior Daniel, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Cochior Daniel, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Cochior Daniel, M.D., Ph.D., Univ. Professor** **Gabriel Veselu, M.D., Ph.D, Lecturer** **Zoltan Kover, M.D., Ph.D Student, Univ. Assistant** **Lucian Pripișı, M.D., Ph.D, Univ. Assistant**					
Discipline Code	**MLE.3.5.2**	Formative category of the discipline			**DS**	
Year of Study	**3**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**7**

No. of Hours per week	**6**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**4**
Total of hours in the curriculum	**84**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**56**
		Total hours per semester	**175**	Total hours of individual study	**91**

Distribution of time pool per week	**Hours**
1. Study of the course material	10
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	10
4. Additional documentation in the library	3

5. Specific activity for the seminary or laboratory	10
6. Homeworks, translations, etc.	6
7. Preparing for different written exams	10
8. Preparing for oral examinations	10
9. Preparing for the final examination	10
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	4
15. Other activities:	0

Course name	**SURGICAL SEMIOLOGY (I)**
Specific professional competencies	- Critical evaluation of diagnostic assumptions, means and methods used as support for the individualized formulation of the diagnosis. - Performing anamnesis and complete clinical examination as well as knowledge of basic surgical work, requiring appropriate complementary investigations, formulating a positive and differential correct diagnosis.
Transversal competencies	- Efficient use of communication and assisted training resources (specific applications, databases, online applications) both in lb. Romanian and in a language of international circulation. - Perform a work or project by responsibly performing tasks specific to the role of working in a team. - Acquiring teamwork skills, oral and written communication, use of information technology, availability for learning autonomy and deshideration for lifelong learning, respecting and developing professional ethics.
General objectives of the discipline	- Knowledge and interpretation of symptoms and signs of surgical diseases - The skills of the correct examination of the surgical patient. - Appreciation of paraclinical diagnosis - biological and imaging - in surgical pathology. - Presentation of surgical instrumentation and accessories from the surgical ward (drainages, probes, dressings). - The notions of asepsis and antisepsis
Specific objectives of the discipline	- Proper examination of the patient with surgical condition (acute or chronic). - Diagnostic orientation. - Contouring the diagnostic plan. - Biological sampling. - Preparing the patient for endoscopic examinations and for the operative moment. - Evaluation and monitoring of the patient pre- and post-operator. - Study of signs and symptoms, both as a way of obtaining them and as a way of interpreting them, thus including a technical part of the collection of clinical and paraclinical data and an interpretative part of differential diagnosis.

	- The drafting of the clinical observation sheet is in order to develop a diagnosis as quickly and accurately as possible. - The accumulated notions, used equally by all surgical specialties, are part of the basic training on which the thinking of the future general practitioner or surgeon is built.

Course Syllabus		Hours
1.	**Course 1. Introductory course.** The place of surgery in medical practice – knowledge, decision-making ability, dexterity (surgical skills), compassion. Brief history of surgery.	2
2.	**Course 2.** Asepsis, antisepsis, sterilization. Surgical instrumentation – getting started.	2
3.	**Course 3. Infections – generalities.** Acute surgical infections of the skin (erysipelas, folliculitis, furuncle, hydrosadenitis). Localized acute surgical infections (warm abscess, phlegmon, lymphangitis, adenitis). Pyogenic infections of the fingers and hands.	2
4.	**Course 4. Infections – special types of infections.** Gas gangrene. Anthrax. Tetanus. Systemic infections. Septicemia. Chronic surgical infections (cold abscess). Mycoses. Tenosynovitis. Osteitis – osteomyelitis. Antibiotic therapy.	2
5.	**Course 5. Sock.** Types of shock (hypovolemic, cardiogenic, distributive). Pphysiopathology, clinical manifestations, paraclinical explorations, treatment.	2
6.	**Course 6. Wounds.** Classification, symptomatology, evolution, treatment. Burns. Frostbite. Getting surgical wound healing – normal and pathological scarring. Importance of suture material in surgical wound healing.	2
7.	**Course 7. Trauma.** Craniocerebral, thoracic, abdominal and limb trauma. Polytrauma.	2
8.	**Course 8. Malignant tumors.** Definition, epidemiology, etiology, summary notions of carcinogenesis and metastasis, nomenclature, classification, staging. Malignant tumors vs. benign tumors. Malignant tumors: diagnostic principles, principles of complex oncological treatment (surgery, chemotherapy, radiotherapy, hormone therapy, immunotherapy).	2
9.	**Course 9. Semiology of the thyroid gland.** Hyperthyroidism, Thyroiditis, Thyroid cancer	2
10.	**Course 10. Semiology of the mammary gland.** Inflammatory diseases and dystrophies of the mammary gland. Benign and malignant tumors	2
11.	**Course 11. Semiology the esophagus.** Disturbances of motility. Diverticulum, hiatal hernias, gastroesophageal reflux disease. Esophageal cancer.	2
12.	**Course 12. Semiology of the stomach and duodenum.** Functional disorders, gastropathies, (hemorrhagic, atrophic) diverticuli, acute gastric dilation, gastric volvulus, gastric and duodenal ulcers, benign and malignant tumors. Zollinger-Ellison sydrome, gastric cancer, ampular lesions. Superior digestive hemorrhages – general notions.	2
13.	**Course 13. Semiology the small intestine. Part 1.** Regional enteritis, tuberculosis and Crohn's disease, necrotizing enteritis andentero-mesenteric infarction,	2
14.	**Course 13. Semiology the small intestine. Part 2.** Obstructions of small intestine (invagination, incarceration, strangulation). Tumors of the small intestine.	2

Laboratory Syllabus		Hours
1.	Observation sheet and surgical patient examination.	2
2.	Asepsia-antisepsis. Sterilization (practically).	2
3.	Dressings and bandages. Enema, washes, polls.	2
4.	Punctures: Aspirational puncture, puncture for biopsy, paracentesis, thoracocentesis. Harvesting of biological products for microbial germs.	2
5.	Hemorrhage – provisional hemostasis. Blood transfusion. Monitoring the patient`s TA, AV, diuresis,, stool, weight, temperature, hair, etc.).	2

Laboratory Syllabus		Hours
6.	Acute infections: cellulite, panaritium, phlegmon, bacterial gangrene, gaseous gangrena, necrotizing fasceitis, arterial ulcer, venous ulcer, tetanos, septicemia, septicopioemia.	2
7.	Clinical case – the patient with thyroid gland disorder (dystrophic lesions, inflammatory lesions, tumor lesions) – semiological elements, suggestive biological values.	2
8.	Case clinic – the patient with disease of the mammary gland (dystrophic lesions, inflammatory lesions, tumor lesions) – semiological elements, suggestive biological values.	2
9.	Clinical case - the patient with abdominal wall affection - semiological elements, suggestive biological values.	2
10.	Clinical case - the patient with oesophageal diseases - semiological elements, suggestive biological values.	2
11.	Clinical case - patient with gastro-duodenal ulcerative disease - semiological elements, suggestive biological values	2
12.	Clinical case - the patient with disorders of the thin intestine, right and left colon semiological elements, suggestive biological values.	2
13.	Clinical case - the patient with rectal and anal canal disorders- semiological elements, suggestive biological values; Ano-rectal exploration.	2
14.	Clinical case - the patient with acute appendicitis - semiological elements, suggestive biological values; Genital examination.	2

Minimal References:	
1.	Daniel Cochior, Silviu Constantinoiu „Pancreatita acută – abordarea clinico-paraclinică pe baza factorilor determinanţi" Editura Carol Davila 2014
2.	Veselu Gabriel, Elemente de semiologie chirurgicală pentru anul III, sem ÎI, Ed. Hamangiu, 2013
3.	F.D. Ungureanu, Curs de Chirurgie - Vol 1 : Patologia chirurgicală a esofagului; Patologia chirurgicală a intestinului subțire, Editura Titu Maiorescu, București 2012;
4.	F.D. Ungureanu, Curs de Chirurgie - Vol 2 : Patologia chirurgicală a ficatului; Traumatismele toraco-abdominale, București 2014;
5.	F.D. Ungureanu, Curs de Chirurgie - Vol 3 : Patologia chirurgicală a pancreasului; Patologia chirurgicală a cailor biliare, București 2014;
6.	Adriana Bădulescu, Curs - Semiologie Chirurgicală, Ed.Titu Maiorescu, 2011 vol. 1
7.	Adriana Bădulescu, Lucrări Practice - Semiologie Chirurgicală, Ed. Titu Maiorescu, 2012 vol. 1
8.	Daniel Cochior, Dumitru Peţa „Duodenul dificil chirurgical – posibilităţi terapeutice actuale" – Editura Universităţii Titu Maiorescu, Bucureşti 2011
9.	Daniel Cochior, Mariana Cochior „Actualităţi în fiziopatologia pancreatitei acute" - Editura Electra 2003
10.	Daniel Cochior, Dumitru Peţa, Lucian Pripişi „Materialul de sutură chirurgicală - de la concepţie la utilizare" - Editura Electra 2005
11.	N. Angelescu, Tratat de Patologie Chirurgicală, Ed. Medicală 2001, Vol. 1
12.	N. Angelescu, Tratat de Patologie Chirurgicală, Ed. Medicală 2001, Vol. 2
13.	Veselu G., IG. Pușel. Elemente de semiologie chirurgicală. Ed. Hamangiu, 2019
14.	Suportul de curs predat

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course and practical internships are exhibited in the teaching and scientific materials of the discipline, monographs, tutors, courses, in which the latest data from national and international literature are taken, corresponding to the maximum expectations of

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
representatives of the epistemic community, professional associations and representative employers in the field of health in the country. Most of the topics on display are the correspondent of the scientific content requested by the bibliography of the national residency contest.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive exposure of the material according to the analytical program -PpowerPoint presentations.
Laboratory	- Practical education at the patient's bed, under the guidance of the group assistant. - Evaluation of the theoretical knowledge exposed to the course – 30 min. at the beginning of the course following the completion of the chapter specific to the concepts to be evaluated.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- Performing correctly the anamnesis; - Physical examination of the patient; - Promotion with at least 1/2 of the maximum score of all seminars of theoretical knowledge. - Proper completion of an observation sheet, implicitly focusing on an investigation plan; - Interpretation of the biological values of the patient's examinations. - Interpretation of radiological, ultrasound, endoscopic, tomographic and histopathological examinations.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	50 %
- Responses to the laboratory examination	15 %
- Periodic checks with written exams	15 %
- Continuous testing throught the semester	15 %
- Projects / Translations / Posters / Essays, etc.	5 %
- Other activities:	0

Description of the actual methods of examination – E

- Written exam with 90 grid topics and 2 descriptive topics

Minimal requirements for grade 5	**Requirements for grade 10**
• Promoting the practicalexam. • Promoting the minimum knowledgescale. • Knowledge and understanding of the notions of major importance, absolutely necessary for establishing a diagnosis with surgical indication. • 60% knowledge of the information taught in courses andtraineeships.	• Knowledge and understanding of the concepts taught in courses and internships in the proportion of 95-100%. • Full attendance at courses and internships. • Consultation of additional bibliography.

Date of completion
25.09.2019

Discipline Coordinator,	**Head of the Department**,
Cochior Daniel, M.D., Ph.D., Univ. Professor	Dan Ulmeanu, M.D., Ph.D, Assistant Professor

Course Coordinator,	**Laboratory Coordinator**,
Cochior Daniel, M.D., Ph.D., Univ. Professor	Cochior Daniel, M.D., Ph.D., Univ. Professor Gabriel Veselu, M.D., Ph.D, Lecturer Zoltan Kover, M.D., Ph.D Student, Univ. Assistant Lucian Pripiși, M.D., Ph.D, Univ. Assistant

Department approval date
30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**ANATOMICAL PATHOLOGY (I)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Herlea Vlad, M.D., Ph. D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Herlea Vlad, M.D., Ph. D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Herlea Vlad, M.D., Ph. D., Assist. Professor** **Pechianu Cătălin, M.D., Ph.D., Univ. Assistant** **Iorgescu Andreea, M.D.**					
Discipline Code	**MLE.3.5.3**	Formative category of the discipline		**FS**		
Year of Study	**III**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**112**	Total hours of individual study	**56**

Distribution of time pool per week	**Hours**
1. Study of the course material	10
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	0
7. Preparing for different written exams	3
8. Preparing for oral examinations	0
9. Preparing for the final examination	10
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	5
14. Examinations	0
15. Other activities:	0

Course name	**ANATOMICAL PATHOLOGY (I)**
Specific professional competencies	- Ability to use specialized terminology appropriately and in context - Knowledge of microscopic and macroscopic changes in organs, apparatus and systems in various pathologies
Transversal competencies	- The ability to explain and interpret the theoretical and practical contents of the discipline of morphopathology in an interdisciplinary extension with other fundamental biomedical subjects: biochemistry, anatomy, physiology, histology and physiology. - Use of knowledge through exchanges of experience - Ability to study the problems of human pathology and to correlate morphopathological aspects with clinical ones - Formation of normal working attitudes on morphopathical study - Proactive participation in scientific manifestos in the field - Optimal and creative exploitation of one's own potential in collective activities
General objectives of the discipline	- Knowledge of anatomical and functional changes of the structures of the human body in various pathological processes. - Getting general and specific pathology on devices and systems.
Specific objectives of the discipline	- Recognition in optical microscopy of elementary lesions in tissues and organs - Macroscopic recognition of elementary lesions in tissues and organs.

Course Syllabus	**Hours**
1. INTRODUCTION IN PATOLOGIC ANATOMY. The object of study of pathological anatomy; Methods of study; Morphofunctional notions on lesions and diseases; Classification of pathological processes.	2
2. CIRCULATORY DISORDERS – Part 1 Active hyperemia; Blood stasis; Ischemia and anoxia; Thrombosis (causes, types of thrombus, consequences); Disseminated coagulation syndrome; Embolia (causes, forms, evolution); Infarctions (white and red);	2
3. CIRCULATORY DISORDERS – Part 2 Hemorrhages; Pathology of lymphatic circulation, lymphostasis, lymphoragia; Pathological anatomy of irreversible shock.	2
4. DYSTROPHIC DISORDERS – Part 1	2

Course Syllabus	Hours
General notions on dystrophic processes of cells, fundamental substance and fibrillation systems; Fundamental cellular alterations; Reversible and irreversible processes. Protein dystrophies.	
5. DYSTROPHIC DISORDERS – Part 2 Exogenous pigments. Fatty dystrophy: simple and degenerative steatosis, dyslipidosis. Glucidic dystrophies: acquired and hereditary. Mineral dystrophies. Atrophy and hypertrophy (physiological and pathological). Necrobiosis and necrosis: coagulation and liquefaction necrosis, septic and aseptic gangrene.	2
6. INFLAMMATION – Part 1 Generalities about the inflammatory process; Anatomical-clinical classification of inflammations; Varieties of nonspecific inflammation.. Predominantly exudative inflammations (catarrhe, serous, serofibrinous, pseudomembranous, purulent suppurative, hemorrhagic).	2
7. INFLAMMATION – Part 2 Predominantly proliferative inflammation: diffuse and circumscribed (granuloma, including foreign body granuloma and lipogranuloma, granulation tissue). Predominantly parenchymatous inflammation. Predominantly necrotic inflammation.	2
8. INFLAMMATION – Part 3 Healing processes in inflammations; Characteristics of inflammation according to etiology and pathogenesis. Characters of acute, subacute and chronic inflammation; Changes in inflammatory lesions under antibiotic and other current therapies. Specific inflammation;	2
9. INFLAMMATION – Part 4 Tuberculosis, basic macroscopic and microscopic lesions, stadial forms, primary complex, lymphohematogenous dissemination, secondary tuberculosis. Changes in tuberculosis lesions under current treatments. Syphilis: elementary macro and microscopic lesions, stages of earned syphilis (primary, secondary and tertiary), early and late congenital syphilis.	2
10. INFLAMMATION – Part 5 Mycotic and parasitic inflammation. Generalities on the morphopathology of inflammatory processes with immune mechanisms and in organ transplantation.	2
11. TUMORS – Part 1 Generalities; Neoplastic cell characters; Ethiopathogeny and biology of tumor processes; Classification of tumors; General morphopathological characters of benign and malignant tumors.	2
12. TUMORS – Part 2 Benign and malignant epithelial tumors; Benign and malignant connective tumors; Disembryoplastic tumors. Histopathological staging and grading; General notions on anatomological methods of investigation in the diagnosis of tumors.	2
13. REGENERATION AND ORGANIZATION PROCEDURES	2
14. MALFORMATES. Healing processes (regeneration and organization). Causal and formal genesis of malformations (exo and endogenous teratogen factors). Varieties of malformations.	2

Laboratory Syllabus	Hours
1. Methods of histopathological and cytological diagnosis in medical practice. Presentation of circuits, common and special techniques in morphopathology. Exfoliative cytodiagnosis,	2

Laboratory Syllabus		Hours
	cytological diagnosis on biopunctures; Intraoperative histological examination and on material included in paraffin. Special techniques in histopathological diagnosis.	
2.	Macroscopy. Introduction to necropsy technique. Drafting the necroptic protocol. Presentation of the necropsy.	2
3.	Microscopy. Circulatory disorders: renal hyperemia; chronic pulmonary stasis; thrombus; renal infarction; myocardial infarction; pulmonary infarction.	2
4.	Macroscopy. Anatomical-pathological parts with circulatory lesions observed in the corpse and on anatomical-pathological parts with circulatory disorders.	2
5.	Microscopy. Dystrophies: vacuolare dystrophy; hyalin in the ovary; renal amyloidosis; fibrillation degeneration; biliary stasis in the liver; fatty liver.	2
6.	Macroscopy. Dystrophic anatomical-pathological lesions observed in the cadaver and on anatomical-pathological parts with dystrophic lesions.	2
7.	Microscopy. Inflammation: meningitis; liver abscess; appendicitis; fibrinoasa pleurisy; epidemic hepatitis; ulcero-necrotic enteritis;	2
8.	Macroscopy. Anatomical-pathological lesions of inflammatory type observed in the corpse and anatomical-pathological parts with inflammatory lesions.	2
9.	Microscopy. Inflammation: rheumatic myocarditis; pulmonary tuberculosis; granulation tissue; TBC ganglion; cytomegal inclusions; mycotic enteritis.	2
10.	Macroscopy. Anatomical-pathological lesions of inflammatory type and anatomical-pathological parts with inflammatory lesions.	2
11.	Microscopy. Benign tumors: Skin papilloma; Breast adenofibroma; Breast glandular papilloma; Rectal glandular polyp; Cutaneous hemangioma; Uterine leiomyofibroma; mixed parotid tumor.	2
12.	Macroscopy. Anatomy-pathological parts with benign tumor lesions.	2
13.	Microscopy. Malignancies. Basal cell carcinoma; Spinocellular carcinoma. Adenocarcinoma; Adenocarcinoma metastasis; Fibrosarcoma; Osteosarcoma.	2
14.	Macroscopy. Anatomical-pathological lesions with malignant tumor aspects found in the corpse and on anatomical-pathological parts with malignant tumors.	2

Minimal References:	
1.	ROBBINS PATOLOGIE: Bazele Morfologice si Fiziopatologice ale Bolilor (Editia a 9-a). Kumar, V.,Abbas, A. K., Aster, J. C. Bucuresti:Editura Medicala Callisto. 2015.
2.	Robbins basic pathology (Ninth edition.). Kumar, V.,Abbas, A. K., Aster, J. C. Philadelphia, PA: Elsevier Saunders. 2013.
3.	Pathology: clinicopathologic Foundations of medicine, 6th ed., Raphael Rubin, David S. Strayer, Lippincott williams & Wilkins, 2012.
4.	Robbins basic pathology, 8th ed., Vinay Kumar, Stanley L Robbins, et al., Philadelphia, PA: Saunders/ Elsevier, 2007.
5.	Curs de anatomie patologica, ed. a 2-a, Maria Sajin, Adrian Costache, Bucuresti : Cermaprint, 2005.
6.	Hălălău F., Ardelean C.: Anatomie Patologică**,** vol. I, Editura Medicală, 2003;
7.	Hălălău F., Sajin M: Îndreptar de Morfopatologie, Editura Cerma, Bucureşti, 1995;
8.	Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- The notions of the discipline exposed by courses and seminars are in accordance with the requirements of European education being supported by those in the specialized bibliography and helping to integrate the information obtained in a multidisciplinary context thus leading to the development of competences in establishing a diagnosis.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive course based on PowerPoint presentation
Laboratory	- Direct work with the microscopes in the pathology laboratory

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- mandatory presence - carrying out all practical work - note 5 to periodic laboratory evaluations

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	50 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	10 %
- Other activities:	0

Description of the actual methods of examination – E

- Quiz with 14 questions + a descriptive test with 2 subjects.

Minimal requirements for grade 5	**Requirements for grade 10**
• Solving a minimum of 7 grids correctly and 1 descriptive topic	• Complete correct resolution of all grids and 2 descriptive topics

Date of completion

25.09.2019

Discipline Coordinator,

Herlea Vlad, M.D., Ph. D., Assist. Professor

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,

Herlea Vlad, M.D., Ph. D., Assist. Professor

Laboratory Coordinator,

Herlea Vlad, M.D., Ph. D., Assist. Professor
Pechianu Cătălin, M.D., Ph.D., Univ. Assistant
Iorgescu Andreea, M.D.

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**PATHOPHYSIOLOGY (I)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Nemeș Roxana, M.D., Ph.D., Assistant Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Nemeș Roxana, M.D., Ph.D., Assistant Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Nemeș Roxana, M.D., Ph. D., Assistant Professor** **Pleșa Cristina, M.D., Ph. D., Univ. Assistant** **Stoica Cristina, M.D., Ph. D., Univ. Assistant**					
Discipline Code	**MLE.3.5.4**	Formative category of the discipline			**FS**	
Year of Study	**III**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**100**	Total hours of individual study	**44**

Distribution of time pool per week	**Hours**
1. Study of the course material	7
2. Study according with the course support, manuals	12
3. Study of the minimal bibliography	7
4. Additional documentation in the library	6

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	2
7. Preparing for different written exams	2
8. Preparing for oral examinations	0
9. Preparing for the final examination	1
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	**PATHOPHYSIOLOGY (I)**
Specific professional competencies	- Proper use of the concepts of physiopathology. - Understanding the physiopathological mechanisms and the pathological consequences of their disorder. - Multidisciplinary approach to the notions of physiopathology. - The ability to interpret the knowledge acquired.
Transversal competencies	- Constituting the mechanism of thought in medical practice. - Application of interrelationship techniques within a team; developing empathic interpersonal communication capacities in carrying out group work in order to optimally manage the time to interpret analyses and develop a decision. - Student knowledge of the research activity and its specificity, rigour, teamwork.
General objectives of the discipline	- Knowledge and understanding of physiopathological mechanisms, functioning of apparatus and systems in the course of disease development.
Specific objectives of the discipline	- Development of physiopathological skills useful for interpreting the results oflaboratory or paraclinical tests. - Knowledge and understanding of the etiology and physiopathological mechanisms of general reactions such as: inflammatory reaction, shock, etc. - Understanding the basic mechanisms by which the organism operates as a unitary whole and the functioning of systems and apparatusor in the course of diseasedevelopments. Înțelegerea mecanismelor de bază - The general evolution of conditions according to their character: acute or chronic. Knowledge and understanding of metabolic processes carried out in organs, tissues, cells. - The foundation of theoretical notions that will allow the appropriation of new knowledge in the years following university studies. - Ability to understand and assimilate recent discoveries in the field of physiopathology. - Investigation of metabolisms: carbohydrate, lipid, protein, mineral, hormonal and correlation of biochemical parameters with appropriate pathological situations.

Course Syllabus	Hours
1. Physiology of non-specific and specific defence reactions.	2
2. Physiology of the immune response.	2
3. Blood physiology: diseases of the erythrocytic series.	2
4. Blood physiology: conditions of the leukocyte series.	2
5. Blood physiology: hemostasis disorders.	2
6. Thermoregulation.	2
7. Physiopathology of carbohydrate metabolism.	2
8. Physiology of lipid metabolism.	2
9. Physiology of imbalances of protein metabolism.	2
10. Physiology of acid-base imbalances.	2
11. Physiology ofhydroelectrolytic andphospho-calcic..	2
12. The physiology of pain.	2
13. The physiologyof the body's response to stress.	2
14. Seminary	2

Laboratory Syllabus	Hours
1. Exploration of blood tissue: general data, methods of exploration.	2
2. Anemic syndrome. Exploring different types of anemias.	2
3. Explorationofsanvin tes ut: leukocyte series.	2
4. Exploration of blood tissuein: megacario-trombocytic series..	2
5. Exploration of primary andsecondaryhemostasis.	2
6. Coagulation exploration:rii: plasma fibrinogen,clotretraction, fibrinolysis exploration tests.	2
7. Functional exploration of carbohydrate metabolism.	2
8. Functional exploration of lipid metabolism.	2
9. Functional exploration of protein metabolism.	2
10. Volemia and its variations. The water balance..	2
11. Exploring electrolyte metabolism.	2
12. Functional exploration of acid-base balance.	2
13. Exploration of the nervous system.	2
14. Colloquium practical works.	2

Minimal References:	
1.	Anca Bacârea, Fiziopatologie generală, University Press Tîrgu Mureș, 2013
2.	Constantin Bălăeț, Fiziopatologie - lucrări practice, schițe, Editura Etna, 2014
3.	Constantin Bălăeț, Fiziopatologie - note de curs, Editura Universitară Titu Maiorescu, București, 2011
4.	Kumar, Vinay, Abul K. Abbas, Jon C. Aster, and Stanley L. Robbins, Robbins basic pathology. Philadelphia, PA: Elsevier/Saunders, 2013
5.	Minerva Boitan, Fiziopatologie vol I,II, - Editura Universitatea Lucian Blaga, Sibiu, 2005
6.	Ruth A Hannon; Carol Port, Porth pathophysiology: concepts of altered health states - h - Philadelphia: Wolters Kluwer, 2017
7.	S. Silbernagl, F. Lang, R. Gay, A. Rothenburger, Color Atlas of Pathophysiology - Thieme, 2016
8.	Ștefan Sorin Aramă, Fiziopatologie, Editura Cermaprint, București, România, 2009

Minimal References:
9. Sue E Huether; Kathryn L McCance, St. Louis, Missouri, Understanding pathophysiology, Elsevier, 2017
10. Official printed course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course are exhibited in the teaching and scientific materials of the discipline, monographs, tutors, courses, in which the latest data from national and international literature are taken, corresponding to the maximum expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health in the country.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive exposure of the material using the projector, the board, the computer.
Laboratory	- Practical and theoretical applications.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- - for admission to the practical exam the student must carry out all practical works

Consideration points for computing the final score:	Share of the final score (in %) (Total = 100%)
- Responses to the final exam	50 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	20 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	-
- Other activities:	-

Description of the actual methods of examination – E

- Descriptive written test (5 subjects) and a quiz test (10 multiple choice questions).

Minimal requirements for grade 5	Requirements for grade 10
• Recovery of all absences of PW; • Passing the PW test; • 3 out of 5 correct answers in descriptive test and 4 out of 10 correct answers in the quiz test.	• Correct answers to all subjects

Date of completion

25.09.2019

Discipline Coordinator,

Nemeș Roxana, M.D., Ph.D., Assistant Professor

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,	**Laboratory Coordinator**,
Nemeș Roxana, M.D., Ph.D., Assistant Professor	Nemeș Roxana, M.D., Ph. D., Assistant Professor Pleșa Cristina, M.D., Ph. D., Univ. Assistant Stoica Cristina, M.D., Ph. D., Univ. Assistant

Department approval date
30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**PHARMACOLOGY**					
Didactic position, name and surname for the Coordinator of the Discipline	**Toma Mihai, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Course	**Toma Mihai, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Toma Mihai, M.D., Ph. D., Lecturer** **Furdu-Lunguț Emilia, M.D., Ph. D., Lecturer** **Mihăilă Mariana, M.D.**					
Discipline Code	**MLE.3.5.5**	Formative category of the discipline		**FS**		
Year of Study	**III**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**100**	Total hours of individual study	**44**

Distribution of time pool per week	**Hours**
1. Study of the course material	4
2. Study according with the course support, manuals	7
3. Study of the minimal bibliography	6
4. Additional documentation in the library	0

5. Specific activity for the seminary or laboratory	7
6. Homeworks, translations, etc.	4
7. Preparing for different written exams	4
8. Preparing for oral examinations	2
9. Preparing for the final examination	6
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	0
15. Other activities:	0

Course name	**LIBER**
Specific professional competencies	- Transmission of information about different classes of medicines. - Acquiring the practical ability to use the submitted concepts by applying them in the prescription of prescriptions.
Transversal competencies	- Cross-cutting competences, acquired through the deepening of specific knowledge, will aim at: carrying out research projects, elaboration of scientific articles or studies, dissertation work, etc.; the efficient use of information, scientific and specialist resources on professional career; effective techniques of human communication in relation to specialists in the field and patients. - awareness of the need for continuous training; efficient use of learning resources and techniques for personal and professional development.
General objectives of the discipline	- In course: The central purpose of the course is to appropriate the basic concepts of pharmacology and to assimilate the uses of the main classes of medicines currently used in medical practice. - The general aims of the course are the following: Learning the basic scientific concepts and principles that will serve as the basis for understanding the pharmacology of medicinal products: • understanding the fundamental scientific principles of the action of medicinal products and the mechanisms by which medicinal products can mediate their pharmacological effect • understanding the fundamental principles of pharmacokinetics related to the absorption, distribution, metabolism and elimination of medicinal products from the body • understanding of biochemical reactions that result in the metabolism of medicines in the body • understanding the reasoning behind establishing different dosing regimens in certain categories of patients • understanding how patient-specific and genetic characteristics can affect the response to a particular class of medicines

	• understanding the scientific basis behind how two different medicines can interact in the body and cause undesirable effects - Understanding pharmacology and clinical use of major classes of drugs: drugs affecting the autonomic nervous system; anesthetics and analgesics; medicines diseases of the cardiovascular system; medicines affecting the respiratory system; antibiotics; medicines used in the treatment of psychiatric disorders; medicines that affect the immune system; medicines affecting the endocrine system; dietary supplements and herbal medicines; antibiotic, antiviral and cancer medicines - In practical work: - the acquisition of prescription and reception of master and printed preparations; the application of theoretical notions acquired in the course by prescribing prescriptions.
Specific objectives of the discipline	- At the end of the course the student must have mastered specific aspects related to each class of drugs and each drug as follows. - indications – under what circumstances the medicine is used - mechanism of action – which is the scientific basis behind its actin - pharmacokinetics – there are factors such as absorption, distribution, metabolism or elimination that may affect the clinical effects of the drug in categories of patients. - side effects – are there any relevant side effects that can adversely affect the patient's health? - contraindications – under what circumstances should a particular medicinal product not be given to a particular category of patients - drug interactions – there are possible interactions with concomitant medication that could affect the efficacy and bioavailability of the drug.

Course Syllabus	**Hours**
1. Introduction to Pharmacology. General pharmacokinetics: absorption, distribution, biotransformation and elimination.	4
2. The main pharmacokinetic parameters.	10
3. Elements of general pharmacodynamics.	8
4. Elements of pharmacotoxicology.	2
5. Vegetative nervous system: elements of the anatomy and physiology of the vegetative nervous system. Types of SNV medication. Cholinergic medication.	2
6. Continue cholinergic medication. Cholinergic medication.	2
7. Continue cholinergic medication. Sympathomimetic medication.	2
8. Continue sympathomimetic medication. Sympatholytic medication.	2
9. Cardiovascular medication – heart failure medication, antiarrhythmic, antianginal, antihypertensive medication, antithrombotic and hemostatic medication	2
10. Medication of the cardiovascular system – medication in heart and antianginals,	2
11. Cardiovascular medication – antiarrhythmic medication	2
12. Cardiovascular medication – antihypertensive medication	2
13. Cardiovascular medication – antithrombotic and hemostatic medication	2
14. Medication of the respiratory system (antitussive, expectorant, antiasthmatic) and Medication of the digestive system (antiulcers, laxatives and purgatives, antidiarrheics, digestive ferments)	2

Laboratory Syllabus	Hours
1. General: definition of drug, drug, active substance. Name of medicines. Getting experimental and clinical research.	2
2. Pharmacopoeia. Elements of legislation in the field of medicinal products and the authorisation of medicinal products.	2
3. Solid and semisolid medicinal forms.	2
4. Liquid and gaseous medicinal forms.	2
5. Prescription or prescription: parts of the prescription; rules for prescribing master and printed preparations	2
6. Examples of bus reception. Optimal time and conditions for the administration of medicines.	2
7. Research in the field of medicine. Experimental models in pharmacological research.	2
8. Vegetative Nervous System (VNS) reception: e.g. prescribing sympathomimetic, sympatolytics;	2
9. Vegetative Nervous System (VNS) reception: e.g. prescribing parasympathomimetic, parasympatholytic;	2
10. Reception of the cardiovascular system.	2
11. Reception of the cardiovascular system.	2
12. Reception of the cardiovascular system.	2
13. Respiratory and digestive reception	2
14. Practical exam	2

Minimal References:

1. Lippincott - Farmacologie ilustrată, ediția a 5-a Richard A. Harvey. Editura: Callisto, 2013

2. Aurelia Nicoleta Cristea (sub redacţia) - Tratat de farmacologie, Ed. Medicală, Bucureşti, 2005;

3. Valentin Stroescu, Bazele farmacologice ale practicii medicale, Ediţia a VII-a, Editura Medicală, Bucureşti 2001;

4. Valentin Stroescu (sub red) Farmacologie- teste de evaluare, editura All 2001.

5. Valentin Stroescu, Îndreptar pentru prescrierea medicamentelor, ed. ALL, ed.III-a 1998.

6. I. Fulga. Farmacologie, Ed. Medicală, Bucureşti, 2004.

7. Sorin Paveliu Farmacologie clinică - note de curs. Editura Infomedica, Bucureşti 2002.

8. Sorin Paveliu Farmacologie clinică – teste de evaluare - Editura Infomedica, Bucureşti 2009.

9. Bertram G. Katzung, Basic & Clinical Pharmacology, 10th Edition, Editura The McGraw-Hill Companies, Inc. 2007

10. Goodman and Gillman`s – The Pharmacological Basis of Therapies (12th edition). McGraw Hill Publising 2011

11. The official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:

- The development of content and the choice of teaching methods is based on identifying the knowledge and skills needs necessary to bring medical practice into line with applicable legal requirements.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Transmitting and explaining information using Power Point presentation mode
Laboratory	- The explanation of the medical process. - Prescription of network is using an interactive mod working with students.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- the appropriation of the concept of a prescription; - the appropriation of the concepts of master and typed preparation; - the application of the theoretical knowledge acquired in the course, prescribing different types of recipes; - proof that they have been able to acquire the information submitted through three types of seminars, namely: verification from the concepts of general pharmacology, verification from the notions of SNV, verification from the notions of CNS.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	70 %
- Responses to the laboratory examination	Admitted/Failed – this constitutes a requirement for admission to the final test
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	10 %
- Other activities:	-

Description of the actual methods of examination – E

- written exam with descriptive subjects and a quiz with multiple choice

Minimal requirements for grade 5	**Requirements for grade 10**
• regular testing through control works with correct final answers >50%, i.e. obtaining satisfactory scores during these tests during the semester • correctly prescribing a prescription • correct completion of at least 50% of the subjects in the final exam.	• Assimilation of the pharmacological elements and correct prescribing of the two prescriptions according to the requirements • Getting scores of more than 90% in intermediate tests • Presentation of a report/translation/ according to the requirements or participation in the activity of a student-level research project.

Date of completion

25.09.2019

Discipline Coordinator,

Toma Mihai, M.D., Ph. D., Lecturer

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,	**Laboratory Coordinator**,
Toma Mihai, M.D., Ph. D., Lecturer	Toma Mihai, M.D., Ph. D., Lecturer Furdu-Lunguț Emilia, M.D., Ph. D., Lecturer Mihăilă Mariana, M.D.

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**HYGENE AND ENVIRONMENT HEALTH (I)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Dan Mânăstireanu, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Dan Mânăstireanu, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Dan Mânăstireanu, M.D., Ph.D., Univ. Professor** **Sandu Simona Miriana, M.D., Ph.D., Lecturer**					
Discipline Code	**MLE.3.5.6**	Formative category of the discipline			**FS**	
Year of Study	**III**	Semester	**5**	Type of the final evaluation (**E, V**)		**E5**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**2**

No. of Hours per week	**2**	Out of which are Course hours:	**1**	Seminar / Practical Activity / Clinical Stage	**1**
Total of hours in the curriculum	**28**	Out of which are Course hours:	**14**	Seminar / Practical Activity / Clinical Stage	**14**
		Total hours per semester	**50**	Total hours of individual study	**22**

Distribution of time pool per week	**Hours**
1. Study of the course material	3
2. Study according with the course support, manuals	3
3. Study of the minimal bibliography	1
4. Additional documentation in the library	2

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	3
9. Preparing for the final examination	4
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	**HYGENE. ENVIRONMENT HEALTH (I)**
Specific professional competencies	- Creating skills on the study of hygiene issues, scientific news and their applicability in practice through individual and collective concrete measures; - Aligning with the requirements of the European Union by looking at the possibilities of integrating European legislation into the local context of our country with the characteristic study specific to each field;; - Communication of specific practical findings related to a particular branch to be correlated in the general scientific context;
Transversal competencies	- Demonstrate concern for continuous professional improvement by training abilities of thought and discipline-specific practice. - Integrate the theoretical and practical knowledge acquired in hygiene discipline with that obtained in other fundamental disciplines and use it as a platform for clinical training. - Stimulation of interdisciplinary collaboration, efficient use of learning resources to increase professional efficiency. - Have initiative, get involved in the educational and scientific activities of the discipline. - Know how to use information and communication technology.
General objectives of the discipline	- Familiarity with the fundamental notions of hygiene; assimilation of the necessary knowledge of the doctor on hygienic-sanitary rules imposed by the legislation in force in the hospital and extra-hospital environment. - Understanding the specifics of the discipline and the characteristics that differentiate it from the other disciplines. Prophylaxis – the essence of prevention. - Information on the health legislation in force, the field of hygiene and how it is applied. Competent institutions.
Specific objectives of the discipline	- Recognition of risk factors on human health and their effect; - Learning the techniques and practical methods of investigating risk factors for human health and the environment, - Understanding the means of preventing disease through these risk factors, - Practical application of the health legislation in the field and the consequences of its non-compliance.

	- Understanding the need for measures to protect the environment, individual and collective activities to fight pollution.

Course Syllabus	**Hours**
1. Hygiene. Environmental hygiene. Prophylaxis.Prevention.	2
2. Air hygiene	2
3. Water hygiene Water diseases	2
4. Soil hygiene and health	2
5. Radiation hygiene. Their use in medicine	1
6. Habitat hygiene. Microclimate. Age hygiene.	2
7. Sanitary hygiene.	2
8. Romanian medical legislation in the context of European legislation in the field.	1

Laboratory Syllabus	**Hours**
1. Work protection measures in the hygiene laboratory.	2
2. Specific methods of hygiene analysis (Research methods used in hygiene).	2
3. Water potability – bacteriological and chemical indicators of potability.	2
4. VALUES of CMA in air, water, soil – evaluation of the body's position to pollutants and atmospheric effects with irritating, asphyxiating, toxic, fibrosing effects.	2
5. Air pollution. Smoking. Bacteriological pollution of air	2
6. Practical notions of the use of radiation.	2
7. Microclimate conditions. Comfort versus economic efficiency.	2

Minimal References:
1. Tratat de igienă sub redacția Sergiu Mănescu- volumul I,Îl,III,Editura Medicală, București 1984-1987
2. Igienă practică și ecologie medicală-prof.dr.Sorina Doroftei, - Editura Eurobit 1999- Timișoara
3. Aplicaţii practice în sănătatea mediului -prof.dr.Carmen Ionuț, Editura Medicală Universitară ”Iuliu Haţieganu”, Cluj- Napoca 1998
4. Igienă alimentației și nutriției- Editura Medicală Universitară ”Iuliu Haţieganu”, Cluj-Napoca 2001
5. Ghid pentru practicieni-Cât mai puține riscuri prin injecții -Ministerul Sănătății,Institutul de Sănătate Publică București,1999
6. Ghid practic de management al expunerii accidentale la produse biologice-Ministerul Sănătății , Institutul de Sănătate Publică București,2004
7. Bălan A. și colaboratorii, Ghid privind curățenia,dezinfecția și sterilizarea în unitățile de asistență medicală,Institutul de Sănătate Publică București,2001
8. Compendiu de igienă sub redacţia prof. dr. Carmen Ionuţ- Editura Medicală Universitară ”Iuliu Haţieganu”, Cluj-Napoca 2004
9. Igienă şi medicină muncii – conf.dr.Corina Moldovan – Editura Universităţii din Oradea – 1999
10. Note de curs și lucrări practice de igienă. Manastireanu Dan. Editura UTM. 2010
11. Politica şi legislaţia europeană a mediului / IONESCU, CRISTINA,.- Bucureşti : H*G*A* , 2000
12. Anca Dumitrescu - Comunicarea riscului pentru sănătate generat de mediu, Ed. Institutului de Sănătate Publică Bucureşti, 2000
13. ORDIN nr. 1226 din 3 decembrie 2012 pentru aprobarea Normelor tehnice privind gestionarea deşeurilor rezultate din activităţi medicale şi a Metodologiei de culegere a datelor pentru baza naţională de date privind deşeurile rezultate din activităţi medicale

Minimal References:
14. ORDIN Nr. 119 din 4 februarie 2014 pentru aprobarea Normelor de igienă şi sănătate publică privind mediul de viaţă al populaţiei Emitent: Ministerul Sănătăţii Publicat În: Monitorul Oficial Nr. 127 din 21 februarie 2014
15. Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- The course allows integration into a responsible professional environment, the development of applied research programmes, being in line with the requirements of European university education by constantly updating the information and thus corresponding tothe expectations ofthe representatives of theepistemic community, professional associations and representative employers in the field of Health.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Multimedia projection of the material according to the analytical program accompanied by interactive programmed education, in order to form the practical learning of the theoretical and practical notions accumulated and acquired.
Laboratory	- Presentation of the rules for the protection of work in the laboratory - Demonstrations of laboratory examinations - Execution of "own manum" of various laboratory analyses - Demonstration of the aggressiveness of smoking

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:

For final examination:

- written work
- individual practical examination
- project

Minimum scale of activities to be performed by the student in practical work

- Presence of a minimum of 6 LP – with recoveries.
- Acquiring laboratory techniques.
- Knowledge of notions of CMA, permissible limits, pollution,
- Preparation of at least 1 report with a given or choice topic.

All activities/manoeuvres/manoeuvres necessary for the student's acquisition of the minimum level of general and specific competences of the discipline will be listed:

- Individual study of materials presented in courses and bibliography requested.
- Acquiring how to draw up a profile essay/reference,
- The very fact of the labor protection measures in the laboratory.
- The development of hygiene-specific laboratory techniques.

Consideration points for computing the final score:	Share of the final score (in %) (Total = 100%)
- Responses to the final exam	60 %
- Responses to the laboratory examination	25 %
- Periodic checks with written exams	5 %
- Continuous testing through the semester	5 %
- Projects / Translations / Posters / Essays, etc.	5 %
- Other activities:	-

Description of the actual methods of examination – E

- written work,
- individual or group practical examination,

Minimal requirements for grade 5	Requirements for grade 10
• Active presence at all practical work • Obtaining a grade 5 by summarizing the points obtained in the written test and the report	• Obtaining a grade 10 by summarizing the points obtained in the written and reported sample.

Date of completion

25.09.2019

Discipline Coordinator,

Dan Mânăstireanu, M.D., Ph.D., Univ. Professor

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,

Dan Mânăstireanu, M.D., Ph.D., Univ. Professor

Laboratory Coordinator,

Dan Mânăstireanu, M.D., Ph.D., Univ. Professor
Sandu Simona Miriana, M.D., Ph.D., Lecturer

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**MEDICAL SEMIOLOGY (II)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Soare Simona, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Course	**Soare Simona, M.D., Ph. D., Lecturer**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Soare Simona, M.D., Ph. D., Lecturer** **Radu Valentin Coltuc, M.D., Ph. D., Lecturer** **Pandelea-Dobrovicescu George Răzvan, M.D., Ph. D. Student, Univ. Assistant**					
Discipline Code	**MLE.3.6.7**	Formative category of the discipline			**DS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**6**

No. of Hours per week	**6**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**4**
Total of hours in the curriculum	**84**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**56**
		Total hours per semester	**150**	Total hours of individual study	**66**

Distribution of time pool per week	**Hours**
1. Study of the course material	10
2. Study according with the course support, manuals	20
3. Study of the minimal bibliography	10
4. Additional documentation in the library	10

5. Specific activity for the seminary or laboratory	5
6. Homeworks, translations, etc.	0
7. Preparing for different written exams	5
8. Preparing for oral examinations	0
9. Preparing for the final examination	5
10. Consultations	
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	0
14. Examinations	
15. Other activities:	0

Course name	**MEDICAL SEMIOLOGY (II)**
Specific professional competencies	- correct medical terminology - - acquiring the skills necessary for the detection and interpretation of symptoms and signs of human ailments (Anamnesis), - -the incorporation of methods and techniques of clinical examination (Inspection, Palpation, Percutia, Auscultation) and paraclinical (Clinical Laboratory, Medical Imaging) for the final diagnosis (of syndrome and then of diagnosis of disease).
Transversal competencies	- The activities carried out during the clinical stage aim to develop the spirit of the medical "team", i.e. to acquire the ways of external communication regarding the clinical situations studied, with the emphasis on the way of oral and written communication, including through the use of modern information systems. The emphasis is on empowering students in decision-making, linking with other members of the collective. Students are determined to become aware that specialized training becomes a permanent obligation, throughout their medical career, this being an essential condition in maintaining working standards, constantly respecting codes of good practice and maintaining within the limits of professional ethics.
General objectives of the discipline	- The incorporation of fundamental notions that represent the object of activity of medical semiology, the discipline dealing with the study of symptoms and signs of human diseases, the methods of clinical examination and some techniques of paraclinical investigation.
Specific objectives of the discipline	- Insisting methods and techniques of clinical examination (Inspection, Palpation, Percution, Auscultation) and paraclinical (Clinical Laboratory, Medical Imaging) for the final diagnosis (of syndrome and then of diagnosis of disease).

Course Syllabus	**Hours**
1. CARDIOVASCULAR APPARATUS Heart and pericardium: - precordial pain, dyspnea, palpitations. Objective examination - inspection, palpation (apex shock, cardiac noises, fretting, pericardial friction), percussion, auscultation (technique, auscultation areas, cardiac noises, cardiac blasts, pericardiac friction). Paraclinical explorations - electrocardiographic semiology, phonocardiogram, mechanograms, e.g. radiological, echocardiography, nuclear techniques, cardiac catheterization, stress tests.	2

Course Syllabus	Hours
2. SINDROMS OF INIMUME AND PERICARDAL AFFECTS Mitral tenosis; mitral insufficiency; aortic stenosis; aortic insufficiency; myocardial syndrome; pericardial syndrome; coronary heart failure syndrome; left ventricular insufficiency syndrome; syndrome of right ventricular insufficiency;	2
3. SEMIOLOGY AND PROPEDEUTICA OF VASCULAR GOODS **Semiology and propedeutic arterial diseases**: Paraclinical explorations (oscillometer, oscillography, ultrasonic Doppler method, skin thermometry, pletismography, thermography, isotopic methods, arteriography); Blood pressure - measurement technique, hypertension, hypotension; **Semiology and propedeutica of venous diseases**: Objective examination - inspection, clinical determination and direct measurement of venous pressure, palpation. auscultation; Paraclinical methods of investigation - phlebography, isotopic methods, ultrasound examination; Peripheral ischemia syndrome; Venous occlusion syndrome of the lower limbs; **Semiology of the lymphatic system**: The peculiarities of anamnesis, Objective examination - inspection, palpation. Paraclinical methods - lymphography, lymphoscintigraphy;	2
4. DIGESTIVE APPARATUS – Part 1 Mouth and pharynx; Esophagus;	2
5. DIGESTIVE APPARATUS – Part 2 **Abdomen, stomach, duodenum, intestine;** symptoms in diseases of the abdomen (pain, feeling of bloating); Objective examination - clinical topography, inspection, pallor, percussion, auscultation; Complementary investigations - peritoneal puncture: radiological examination, laparoscopy; exploration of secretory function, exploration of evacuator function, radiological examination, gastroduodenoscopy; examination of faeces, morphological explorations	2
6. DIGESTIVE APPARATUS – Part 3 **Liver, vesicle and bile ducts** The peculiarities of anamnesis; symptoms; objective examination of the liver — inspection, palpation, percussion, auscultation; functional exploration; morphological exploration; complementary investigations - duodenal survey, e.g. radiological, e.g. ultrasound;	2
7. DIGESTIVE APPARATUS – Part 4 **Exocrine and endocrine pancreas:** The peculiarities of anamnesis; symptoms; the general objective examination; objective examination of the pancreas; complementary investigations - functional exploration, morphological exploration, radiological examination, scintigraphy, ultrasound examination; Complementary investigations - basal, postprandial blood sugar, glucose tolerance test, glycosuria, insulin dosing;	2
8. SINDROAMS OF THE DIGESTIVE APPARATUS Aascitic syndrome; esophageal syndrome; gastric evacuating insufficiency syndrome; diarrheal syndrome; constipation syndrome; ano-recto-sigmoid syndrome; intestinal occlusion syndrome; jaundice syndrome; portal hypertension syndrome; syndrome of high liver failure; acute peritoneal syndrome.	2
9. RENAL APPARATUS The peculiarities of anamnesis; Heredo-collateral history; Symptoms - pain, disorders of motion, general symptoms; the overall objective examination and at the level of other apparatus; local objective examination - inspection, percussion ,palpation, auscultation; exploration of the bladder; examination of the urethra;	2
10 COMPLEMENTARY EXAMINATIONS OF THE RENAL APPARATUS	2

Course Syllabus	Hours
Urine examination: macroscopic examination; microscopic examination; chemical examination; bacteriological examination; Morphofunctional exploration: morphological examinations (radiological examination, computed axial tomography, isotopic examinations, ultrasound, renal biopsy puncture); functional examinations;	
11 RENAL SINDROAME GREATS urinary syndrome; hydrosalin retention syndrome; cardiovascular syndrome; humoral syndrome; neuropsychic syndrome; renal failure syndrome; peculiarities of the great syndromes in the main nephropathy	2
12. HEMATOFORMATOR SYSTEM **Spleen**, **entritrocitary series; lymphoretic system and white series;** The peculiarities of anamnesis; specific symptoms; Complementary investigations- - e.g. radiological, scintigraphy, ultrasound, puncture biopsy, splenocontraction;	2
13. **HEMOSTASIS** The peculiarities of anamnesis in diseases of hemostasis; symptoms in hemostasis diseases; objective examination; complementary investigations;	2
14. SYNDOMES OF BLOOD AND HEMATIC ORGAN DISEASES Anemic syndrome; hemorrhagic syndrome; ganglion syndrome; splenomegalic syndrome; medullary insufficiency syndrome; leukaemia syndrome	2

Laboratory Syllabus	Hours
1. SEMIOLOGY OF THE CARDIOVASCULAR APPARATUS – Part 1 Heart and pericardium, the peculiarities of anamnesis: precordial pain; dyspnea; palpitations; Objective examination: inspection; palpation (apex shock, cardiac noises, fretting, pericardial friction); percussion; auscultation (technique, auscultation areas, cardiac noises, cardiac blasts, pericardial friction);	2
2. SEMIOLOGY OF THE CARDIOVASCULAR APPARATUS – Part 2 Paraclinical explorations: electrocardiographic semiology; phonocardiogram; mechanograms; radiological examination; echocardiography; stress tests; Semiology of vascular diseases: paraclinical explorations: oscillometry, skin thermometry, pletismography, arteriography. Blood pressure: measurement technique; hypertension; hypotension;	2
3. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 1 Mouth and pharynx, esophagus	2
4. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 2 Complementary examinations: - radiological examination, esophagoscopy;	2
5. SEMIOLOGY OF THE DIGESTIVE APPARATUS - Part 3 Abdomen, stomach, duodenum, intestine	2
6. SEMIOLOGY OF THE DIGESTIVE APPARATUS - Part 4 Anamnesis; symptoms; general symptoms from other organs; objective examination; complementary investigations;	2
7. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 5 Liver, vesicle and bile ducts. Anamnesis; symptoms; the general objective examination; objective examination of the liver.	2
8. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 6 Inspection, palpation, percussion, auscultation; complementary investigations: functional exploration; morphological exploration; duodenal survey, e.g. radiological, e.g. ecographic	2
9. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 7 Exocrine and endocrine pancreas	2

Laboratory Syllabus	Hours
10. SEMIOLOGY OF THE DIGESTIVE APPARATUS – Part 8 Anamnesis, general objective examination; objective examination of the pancreas; complementary investigations;	2
11. SEMIOLOGY OF THE RENAL APPARATUS Anamnesis; symptoms: pain; disturbances of urination; general symptoms; physical examination	2
12. SEMIOLOGY OF THE HEMATOGENESIS APARATUS – Part 1 Spleen; the erythrocytic series; Lymphoreticular system and white series; Haemostasis	2
13. SEMIOLOGY OF THE HEMATOGENESIS APARATUS – Part 2 Anamnesis; specific symptoms; the general objective examination; objective examination;	2
14. SEMIOLOGY OF THE HEMATOGENESIS APARATUS – Part 3 Complementary investigations: duodenal survey, radiological examination, scintigraphy, ultrasound;	2

Minimal References:

1. Bruckner I. – Semiologie medicală, Editura Medicală, Bucureşti, 2002.

2. Ciobanu V., Stroescu I., Urseanu I. – Semiologie şi diagnostic în reumatologie, Editura Medicală, Bucureşti, 1991.

3. Ciurea P., Ciurea T. – Bolile aparatului digestiv, Editura Didactică şi Pedagogică R.A., 1999.

4. Ciurea P., Ciurea T. – Hepatologie clinică, Editura Medicală Universitară Craiova, 2000.

5. Georgescu D. – Semeiologie Medicală, Editura Naţional, 2004.

6. Georgescu M., Ciurea T., Georgescu E. – Semiologie Medicală, Editura CARDINAL, Craiova, 1995.

7. Isselbacker K., Braunwald E., Wilson J., Martin J., Fanci A., Kasper D. – Harrison's Principles of Internal Medicine, Mc. Graw & Hill, 1998.

8. Moldovan T. – Semiologie Clinică Medicală, Editura Medicală, Bucureşti, 1993.

9. Official course.

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:

- The incorporation of the concepts taught in the course and the practical works is supported by the exposure in the idactic and scientific materials of the discipline, courses, guidance in which are taken the latest data from the national and international literature corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health.

Disemination of the information

Type of activities	Didactic Methods Employed
Course	- Presented via MsOffice Power-Point
Laboratory	- In the hospital ward of the medical ward, sometimes in the classroom for practical work

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:

- Proper anamnesis and clinical examination to establish the correct clinical diagnosis

Consideration points for computing the final score:	Share of the final score (in %) (Total = 100%)
- Responses to the final exam	60 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	0
- Other activities:	0

Description of the actual methods of examination – E

- Oral examination on a ticket-based system.

Minimal requirements for grade 5	Requirements for grade 10
• Proper performance of anamnesis and clinical examination by completing the diagnosis	• Correct response to all subjects of oral examination

Date of completion

25.09.2019

Discipline Coordinator,

Soare Simona, M.D., Ph. D., Lecturer

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,

Soare Simona, M.D., Ph. D., Lecturer

Laboratory Coordinator,

Soare Simona, M.D., Ph. D., Lecturer
Radu Valentin Coltuc, M.D., Ph. D., Lecturer
Pandelea-Dobrovicescu George Răzvan, M.D., Ph. D. Student, Univ. Assistant

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**SURGICAL SEMIOLOGY (II)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Cochior Daniel, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Cochior Daniel, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Cochior Daniel, M.D., Ph.D., Univ. Professor** **Gabriel Veselu, M.D., Ph.D, Lecturer** **Zoltan Kover, M.D., Ph.D Student, Univ. Assistant** **Lucian Pripișı, M.D., Ph.D, Univ. Assistant**					
Discipline Code	**MLE.3.6.8**	Formative category of the discipline			**DS**	
Year of Study	**3**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**6**

No. of Hours per week	**6**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**4**
Total of hours in the curriculum	**84**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**56**
		Total hours per semester	**150**	Total hours of individual study	**66**

Distribution of time pool per week	**Hours**
1. Study of the course material	10
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	5
4. Additional documentation in the library	2

5. Specific activity for the seminary or laboratory	5
6. Homeworks, translations, etc.	5
7. Preparing for different written exams	5
8. Preparing for oral examinations	5
9. Preparing for the final examination	5
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	4
13. Tutoring	2
14. Examinations	4
15. Other activities:	0

Course name	**SURGICAL SEMIOLOGY (II)**
Specific professional competencies	- Critical evaluation of diagnostic assumptions, means and methods used as support for the individualized formulation of the diagnosis. - Performing anamnesis and complete clinical examination as well as knowledge of basic surgical work, requiring appropriate complementary investigations, formulating a positive and differential correct diagnosis.
Transversal competencies	- Efficient use of communication and assisted training resources (specific applications, databases, online applications) both in lb. Romanian and in a language of international circulation. - Perform a work or project by responsibly performing tasks specific to the role of working in a team. - Acquiring teamwork skills, oral and written communication, use of information technology, availability for learning autonomy and deshideration for lifelong learning, respecting and developing professional ethics.
General objectives of the discipline	- Knowledge and interpretation of symptoms and signs of surgical diseases - The skills of the correct examination of the surgical patient. - Appreciation of paraclinical diagnosis - biological and imaging - in surgical pathology. - Presentation of surgical instrumentation and accessories from the surgical ward (drainages, probes, dressings). - The notions of asepsis and antisepsis
Specific objectives of the discipline	- Proper examination of the patient with surgical condition (acute or chronic). - Diagnostic orientation. - Contouring the diagnostic plan. - Biological sampling. - Preparing the patient for endoscopic examinations and for the operative moment. - Evaluation and monitoring of the patient pre- and post-operator. - Study of signs and symptoms, both as a way of obtaining them and as a way of interpreting them, thus including a technical part of the collection of clinical and paraclinical data and an interpretative part of differential diagnosis.

	- The drafting of the clinical observation sheet is in order to develop a diagnosis as quickly and accurately as possible. - The accumulated notions, used equally by all surgical specialties, are part of the basic training on which the thinking of the future general practitioner or surgeon is built.

Course Syllabus		Hours
1.	**Course 1. Surgical semiology of the colon and the appendix.** Diverticulosis, megacolon, colitis (ulcerous, ischemic, pseudomembranous, post-irradiation, amoebic). Crohn's disease, benign and malignant tumors. Acute and chronic appendicitis, appendix tumors.	2
2.	**Course 2. Surgical semiology of the rectum and anal canal.** Rectal prolapse, ulcer-hemorrhagic rectocolitis, benign and malignant rectal tumors, hemorrhoids, anal fissure, infections (abscesses, fistulas), anal incontinence, benign and malignant tumors. Lower digestive hemorrhages - general notions.	2
3.	**Course 3. Surgical semiology of the chest.** Chest trauma. Purulent pleurisies. Hydatic pulmonary cyst. Bronchopulmonary cancer	2
4.	**Course 4. Surgical semiology of abdominal parietal defects.** Inguinal, femoral andumbilical hernias. Rare hernias of the abdominal wall.	2
5.	**Course 5. Surgical semiology of the liver external biliary pathways. Part 1.** Vesicular lithiasis. Bile lithiasis. Cancer of the gallbladder. Cancer of the bile ducts	2
6.	**Course 6. Surgical semiology of the liver external biliary pathways. Part 2.** Caroli's disease and intrahepatic lithiasis. Liver cirrhosis. Liver abscesses. Hepatic hydatic cyst. Liver tumours	2
7.	**Course 7. Surgical semiology of diseases of the pancreas. Part 1.** Acute pancreatitis. Chronic pancreatitis.	2
8.	**Course 8. Surgical semiology of diseases of the pancreas. Part 2.** Neoplasms of the endocrine pancreas. Neoplasms of the exocrine pancreas.	
9.	**Course 9. Surgical semiology ofthe spleen.** Hematological and immunological hypersplenism. Trauma and abscesses of the spleen	2
10.	**Course 10. Surgical semiology of the mechanical jaundice.**	2
11.	**Course 11. Surgical semiology of the peripheral vascular diseases. Part 1.** Peripheral chronic ischemia syndrome (obliterating atherosclerosis, obliterating thrombangitis, diabetic arteriopathy).	2
12.	**Course 12. Surgical semiology of the peripheral vascular diseases. Part 2.** Peripheral acute ischemia syndrome.	2
13.	**Course 13. Surgical semiology of the peripheral vascular diseases. Part 3.** Varicose disease. Superficial and profound phlebitis, thrombo-embolic disease.	2
14.	**Course 14. Basic surgery.** Incision, suture, drainage, puncture. Anesthesia and intensive therapy in surgery: types of anesthesia. Complications of anesthesia. Modern electrosurgery. Mechanical sutures. Minimally invasive surgery. Robotic surgery. Virtual surgical reality.	2

Laboratory Syllabus		Hours
1.	Nosocomial infection. Antibiotherapy in surgery, elective indications	2
2.	Clinical case – the patient with chest injury with surgical indication – semiological clinical elements, biological explorations and suggestive imaging.	2
3.	Trauma of the soft parts: contusions, wounds.	2
4.	Trauma of arterial, nerve and tendinous landmarks.	2

Laboratory Syllabus		Hours
5.	Clinical case - patient with venous insufficiency - pelvic limbs - semiologic clinical elements, biological and suggestive imaging.	2
6.	Clinical case – patient with ischemic syndrome – pelvic limb – semiological clinical elements, biological explorations and suggestive imaging.	2
7.	Clinical case – the patient with abdominal wall defects– semiological clinical elements, suggestive imaging.	2
8.	Clinical case – the patient with biliary disease – semiological clinical elements, suggestive imaging.	2
9.	Clinical case- the patient with liver disease with surgical indication - semiological clinical elements, suggestive imaging.	2
10.	Clinical case – the patient with pancreatic disease semiological clinical elements, suggestive imaging.	2
11.	Interactive discussions on surgical syndromes – jaundice syndrome (benign/malignant etiology of the jaundice).	2
12.	Interactive discussions on surgical syndromes – intestinal occlusion.	2
13.	Interactive discussions on surgical syndromes – acute pancreatitis	2
14.	Interactive discussions on surgical syndromes – politrauma	2

Minimal References:	
1.	Daniel Cochior, Silviu Constantinoiu „Pancreatita acută – abordarea clinico-paraclinică pe baza factorilor determinanţi” Editura Carol Davila 2014
2.	Veselu Gabriel, Elemente de semiologie chirurgicală pentru anul III, sem ÎI, Ed. Hamangiu, 2013
3.	F.D. Ungureanu, Curs de Chirurgie - Vol 1 : Patologia chirurgicală a esofagului; Patologia chirurgicală a intestinului subțire, Editura Titu Maiorescu, București 2012;
4.	F.D. Ungureanu, Curs de Chirurgie - Vol 2 : Patologia chirurgicală a ficatului; Traumatismele toraco-abdominale, București 2014;
5.	F.D. Ungureanu, Curs de Chirurgie - Vol 3 : Patologia chirurgicală a pancreasului; Patologia chirurgicală a cailor biliare, București 2014;
6.	Adriana Bădulescu, Curs - Semiologie Chirurgicală, Ed.Titu Maiorescu, 2011 vol. 1
7.	Adriana Bădulescu, Lucrări Practice - Semiologie Chirurgicală, Ed. Titu Maiorescu, 2012 vol. 1
8.	Daniel Cochior, Dumitru Peţa „Duodenul dificil chirurgical – posibilităţi terapeutice actuale” – Editura Universităţii Titu Maiorescu, Bucureşti 2011
9.	Daniel Cochior, Mariana Cochior „Actualităţi în fiziopatologia pancreatitei acute” - Editura Electra 2003
10.	Daniel Cochior, Dumitru Peţa, Lucian Pripişi „Materialul de sutură chirurgicală - de la concepţie la utilizare” - Editura Electra 2005
11.	N. Angelescu, Tratat de Patologie Chirurgicală, Ed. Medicală 2001, Vol. 1
12.	N. Angelescu, Tratat de Patologie Chirurgicală, Ed. Medicală 2001, Vol. 2
13.	Veselu G., IG. Pușel. Elemente de semiologie chirurgicală. Ed. Hamangiu, 2019
14.	Suportul de curs predat

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course and practical internships are exhibited in the teaching and scientific materials of the discipline, monographs, tutors, courses, in which the latest data from national and international literature are taken, corresponding to the maximum expectations of representatives of the epistemic community, professional associations and representative

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
employers in the field of health in the country. Most of the topics on display are the correspondent of the scientific content requested by the bibliography of the national residency contest.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive exposure of the material according to the analytical program -PpowerPoint presentations.
Laboratory	- Practical education at the patient's bed, under the guidance of the group assistant. - Evaluation of the theoretical knowledge exposed to the course – 30 min. at the beginning of the course following the completion of the chapter specific to the concepts to be evaluated.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- Performing correctly the anamnesis; - Physical examination of the patient; - Promotion with at least 1/2 of the maximum score of all seminars of theoretical knowledge. - Proper completion of an observation sheet, implicitly focusing on an investigation plan; - Interpretation of the biological values of the patient's examinations. - Interpretation of radiological, ultrasound, endoscopic, tomographic and histopathological examinations.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	50 %
- Responses to the laboratory examination	15 %
- Periodic checks with written exams	15 %
- Continuous testing throught the semester	15 %
- Projects / Translations / Posters / Essays, etc.	5 %
- Other activities:	0

Description of the actual methods of examination – E

- Written exam with 90 grid topics and 2 descriptive topics

Minimal requirements for grade 5	**Requirements for grade 10**
• Promoting the practical exam. • Promoting the minimum knowledge scale. • Knowledge and understanding of the notions of major importance, absolutely necessary for establishing a diagnosis with surgical indication. • 60% knowledge of the information taught in courses andtraineeships.	• Knowledge and understanding of the concepts taught in courses and internships in the proportion of 95-100%. • Full attendance at courses and internships. • Consultation of additional bibliography.

Date of completion
25.09.2019

Discipline Coordinator,	**Head of the Department**,
Cochior Daniel, M.D., Ph.D., Univ. Professor	Dan Ulmeanu, M.D., Ph.D, Assistant Professor

Course Coordinator,	**Laboratory Coordinator**,
Cochior Daniel, M.D., Ph.D., Univ. Professor	Cochior Daniel, M.D., Ph.D., Univ. Professor Gabriel Veselu, M.D., Ph.D, Lecturer Zoltan Kover, M.D., Ph.D Student, Univ. Assistant Lucian Pripișı, M.D., Ph.D, Univ. Assistant

Department approval date
30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**ANATOMICAL PATHOLOGY (II)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Herlea Vlad, M.D., Ph. D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Herlea Vlad, M.D., Ph. D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Herlea Vlad, M.D., Ph. D., Assist. Professor** **Pechianu Cătălin, M.D., Ph.D., Univ. Assistant** **Iorgescu Andreea, M.D.**					
Discipline Code	**MLE.3.6.9**	Formative category of the discipline			**FS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**112**	Total hours of individual study	**56**

Distribution of time pool per week	**Hours**
1. Study of the course material	10
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	0
7. Preparing for different written exams	3
8. Preparing for oral examinations	0
9. Preparing for the final examination	12
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	2
14. Examinations	1
15. Other activities:	0

Course name	**ANATOMICAL PATHOLOGY (II)**
Specific professional competencies	- Ability to use specialized terminology appropriately and in context - Knowledge of microscopic and macroscopic changes in organs, apparatus and systems in various pathologies
Transversal competencies	- The ability to explain and interpret the theoretical and practical contents of the discipline of morphopathology in an interdisciplinary extension with other fundamental biomedical subjects: biochemistry, anatomy, physiology, histology and physiology. - Use of knowledge through exchanges of experience - Ability to study the problems of human pathology and to correlate morphopathological aspects with clinical ones - Formation of normal working attitudes on morphopathical study - Proactive participation in scientific manifestos in the field - Optimal and creative exploitation of one's own potential in collective activities
General objectives of the discipline	- Knowledge of anatomical and functional changes of the structures of the human body in various pathological processes. - Getting general and specific pathology on devices and systems.
Specific objectives of the discipline	- Recognition in optical microscopy of elementary lesions in tissues and organs - Macroscopic recognition of elementary lesions in tissues and organs.

Course Syllabus	**Hours**
1. PATHOLOGY OF THE RESPIRATOR APPARATUS – Part 1 Pathology of the upper airways; Rhinopharyngitis and adenoiditis; laryngitis and tracheitis. Bronchial and pulmonary pathology: Bronchial and pulmonary malformations; Acute and chronic bronchitis; Bronsiectasis and bronchial asthma; Atelectasis, acute and chronic emphysema;	2
2. PATHOLOGY OF THE RESPIRATOR APPARATUS – Part 2 Lobar franc pneumonia; Bronhopneumopathy; Interstitial pneumopathy, pulmonary suppressions, including pulmonary gangrene; Pulmonary tuberculosis; Diffuse interstitial pulmonary fibrosis; Pneumoconiosis; Bronchopulmonary tumors. Pathology of pleura: pleurisy and pleurisy, pleural tumors.	2
3. PATHOLOGY OF THE CARDIOVASCULAR APPARATUS – Part 1	2

Course Syllabus	Hours
Cardiovascular malformations; Cardiac dillators and hypertrophies; Ischemic cardiopathy; Vavulo-orificial cardiopathies;	
4. PATHOLOGY OF THE CARDIOVASCULAR APPARATUS – Part 2 Endocarditis (aseptic and septic); Myocardites; Pericarditis and pulmonary cord. Vascular lesions: degenerative arteriopathies, nonspecific and specific arteries; Aneurysms, phlebctas, thrombophlebitis and phlebotrombosis.	2
5. PATHOLOGY OF THE DIGESTIVE APPARATUS, ANNEX ORGANS AND PERITONEUM – Part 1 Buco-maxillofacial pathology; Stomatitis, angina, inflammation and tumors of the salivary glands. Pathology of the esophagus: malformations, caustic esophagitis, stenosis, tumors.	2
6. PATHOLOGY OF THE DIGESTIVE APPARATUS, ANNEX ORGANS AND PERITONEUM – Part 2 Stomach atology: malformations, acute and chronic gastritis, gastro-duodenal ulcer, gastric tumors. Pathology of the small intestine and colon: acute and chronic enteritis and enterocolitis; Ulcer-hemorrhagic enterocolitis; Terminal Ileita. Acute and chronic appendicitis; Intestinal tuberculosis, intestinal lesions from typhoid fever; Amoebic and bacillary dysentery; Rectites; The Ileeus; Bowel tumors.	2
7. PATHOLOGY OF THE DIGESTIVE APPARATUS, ANNEX ORGANS AND PERITONEUM – Part 2 Patology of the liver and bile ducts: Acute and subacute necrosis; Acute and chronic hepatitis; Liver cirrhosis; Malformations of the bile ducts; Bile lithiasis; Angiocolitis, cholangitis, cholecystitis. Tumors of the liver and bile ducts. Pathology of the pancreas: Mucoviscidosis, acute and chronic pancreatitis, pathology of the endocrine pancreas, tumors of the pancreas. Pathology of peritoneum: Acute and chronic peritonitis, tumors of the peritoneum.	2
8. PATOLOGY OF THE URINAR APPARATUS Malformations of the kidney and urinary tract; Glomerular, tubular and interstitial nephropathy; Renal tuberculosis; Nephroangiosclerosis; Hydro- and pawnphrosis; Renal lithiasis; Kidney tumors. Inflammations and tumors of the bladder and urinary tract.	2
9. PATOLOGY OF THE MASCULIN AND FEMININE GENITAL APPARATUS – Part 1 Malformations of the male genital apparatus; Acute and chronic orhiepididimitis; Prostatitis and prostate hypertrophy; Tumors of the testicle and prostate.	2
10. PATOLOGY OF THE MASCULIN AND FEMININE GENITAL APPARATUS – Part 2 Malformations of the female genital apparatus; Cervicites; Cervical dysplasias; Endometriosis; Benign and malignant tumors of the cervix and uterine body. Pathology of pregnancy: Abortions, ectopic pregnancy, mola hydatiform, choriocarcinoma. Salpingoovaritis and pelvic peritonitis; Cysts and tumors of the ovary. Pathology of the mammary gland: Mastitis; sclerochistic mastosis; Sclerosing adenosis; Benign and malignant tumors of the mammary gland.	2
11. PATOLOGY OF THE HEMATO-LEUCO AND LIMFOPOETIC APPARATUS. Pathology of hematopoesis and leukopoesis. Morphopathology of megaloblastic anemias and neonatal erythroblastosis. Acute and chronic leukemias (granulocytes, lymphocytic, monocytic). Panmyelopathies. Pathology of the lymphoid system: Inflammatory and degenerative lymphopathies; Hodgkin's and non-Hodgkin's malignant lymphomas. Pathology of the spleen: inflammatory, degenerative, tumorous.	2
12. PATOLOGY OF THE ENDOCRINE SYSTEM. Thyroid pathology: Acute and chronic thyroiditis, goiters, Basedow's disease, thyroid tumors. Parathyroid pathology: Adenomas and fibrocystic osteodystrophy. Pathology of hypophysis: Adenomas of anterior hypophysis. Adrenal pathology: Tuberculosis, Addison's disease, adrenal tumors.	2
13. PATOLOGY OF THE LOCOMOTOR APPARATUS.	2

Course Syllabus	Hours
Bone and joint dystrophies. Osteita; Osteomyelitis and specific and nonspecific osteoarthritis; Bone tumors. Pathology of muscles, tendons and fascists.	
14. PATOLOGY OF THE NERVOS SYSTEM. Malformations; Traumatic and craniocerebral injuries; Hemorrhage and cerebral softening; Meningitis and encephalitis; Tumors of the meninges and central and peripheral nervous system.	2

Laboratory Syllabus		Hours
1.	Microscopy. CARDIOVASCULAR APPARATUS: Valvular endocarditis; Rheumatismal myocarditis; Myocarditis Fiedler; Fibrinoase pericarditis; Heart liver; Aortic atheromatosis;	2
2.	Macroscopy. Cardiovascular lesions observed in the cadaver and on anatomical-pathological parts with lesions of the cardiovascular system.	2
3.	Microscopy. RESPIRATORY APPARATUS. Lobar franc pneumonia; Bronhopneumonia; Interstitial pneumonia; Pulmonary tuberculosis; Silicosis; Pulmonary emphysema; Pulmonary carcinoma.	2
4.	Macroscopy. Respiratory damage observed in the body and on anatomical-pathological parts with respiratory disorders.	2
5.	Microscopy. DIGESTIVE APPARATUS: Gastric ulcer; Acute phlegmonous appendicitis; Acute enteritis; Mycotic enteritis; Crohn's disease; Rectal adenocarcinoma.	2
6.	Macroscopy. Digestive lesions observed in necropsy and anatomical-pathological parts with digestive lesions.	2
7.	Microscopy. DIGESTIVE APPARATUS: Acute epidemic hepatitis; Chronic aggressive hepatitis; Liver cirrhosis; Hepatocellular carcinoma; Acute cholecystitis; Pancreatic cytosteatonecrosis; Pancreatic mucoviscidosis; Hepatic hemochromatosis.	2
8.	Macroscopy. Digestive lesions (hepatic and pancreatic) observed in necropsy and anatomical-pathological parts with liver and pancreatic lesions.	2
9.	Microscopy. URINARY APPARATUS: Diffuse glomerulonephritis; Nephrosis (amyloid glomerulonephritis);; Acute pyelonephritis; Chronic pyelonephritis; Renal tuberculosis; Clear cell renal carcinoma;	2
10.	Macroscopy. Kidney lesions observed in necropsy and anatomical-pathological parts with renal lesions.	2
11.	Microscopy. GENITAL APARATED. Glandulochistic endometrial hyperplasia; Cervical carcinoma; Papilifer cystadenoma of the ovary; Mola hydatiform; Extrauterine tube pregnancy; Benign prostate hyperplasia; Testicular seminoma.	2
12.	Macroscopy. Anatomical-pathological parts with lesions of the genital apparatus and lesions of the genital apparatus observed in necropsy.	2
13.	Microscopy. LimOID, LEUCOPOETIC AND ENDOCRIN Malignant ganglion lymphoma; Malignant bowel lymphoma; Hodgkin's disease; Leukemic infiltration swells in the liver; Colloid gusa; Gusa Basedow; Chronic lymphomatous thyroiditis.	2
14.	Macroscopy. Anatomical-pathological parts with lymphoid and endocrine pathology and lesions of the same type observed in necropsy.	2

Minimal References:	
1.	ROBBINS PATOLOGIE: Bazele Morfologice si Fiziopatologice ale Bolilor (Editia a 9-a). Kumar, V.,Abbas, A. K., Aster, J. C. Bucuresti:Editura Medicala Callisto. 2015.

Minimal References:	
2.	Robbins basic pathology (Ninth edition.). Kumar, V.,Abbas, A. K., Aster, J. C. Philadelphia, PA: Elsevier Saunders. 2013.
3.	Pathology: clinicopathologic Foundations of medicine, 6th ed., Raphael Rubin, David S. Strayer, Lippincott williams & Wilkins, 2012.
4.	Robbins basic pathology, 8th ed., Vinay Kumar, Stanley L Robbins, et al., Philadelphia, PA: Saunders/ Elsevier, 2007.
5.	Curs de anatomie patologica, ed. a 2-a, Maria Sajin, Adrian Costache, Bucuresti : Cermaprint, 2005.
6.	Hălălău F., Ardelean C.: Anatomie Patologică**,** vol. I, Editura Medicală, 2003;
7.	Hălălău F., Sajin M: Îndreptar de Morfopatologie, Editura Cerma, Bucureşti, 1995;
8.	Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- The notions of the discipline exposed by courses and seminars are in accordance with the requirements of European education being supported by those in the specialized bibliography and helping to integrate the information obtained in a multidisciplinary context thus leading to the development of competences in establishing a diagnosis.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive course based on PowerPoint presentation
Laboratory	- Direct work with the microscopes in the pathology laboratory

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
• mandatory presence • carrying out all practical work • note 5 to periodic laboratory evaluations

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	50 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	10 %
- Other activities:	0

Description of the actual methods of examination – E

- Quiz with 14 questions + a descriptive test with 2 subjects.

Minimal requirements for grade 5	**Requirements for grade 10**
• Solving a minimum of 7 grids correctly and 1 descriptive topic	• Complete correct resolution of all grids and 2 descriptive topics

Date of completion

25.09.2019

Discipline Coordinator,	**Head of the Department**,
Herlea Vlad, M.D., Ph. D., Assist. Professor	Nemeș Roxana, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	**Laboratory Coordinator**,
Herlea Vlad, M.D., Ph. D., Assist. Professor	Herlea Vlad, M.D., Ph. D., Assist. Professor Pechianu Cătălin, M.D., Ph.D., Univ. Assistant Iorgescu Andreea, M.D.

Department approval date

30.09.2019

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**PATHOPHYSIOLOGY (II)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Nemeș Roxana, M.D., Ph.D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Nemeș Roxana, M.D., Ph.D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Nemeș Roxana, M.D., Ph.D., Assist. Professor** **Pleșa Cristina, M.D., Ph.D., Univ. Assistant** **Stoica Cristina, M.D., Ph.D., Univ. Assistant**					
Discipline Code	**MLE.3.6.10**	Formative category of the discipline			**FS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**100**	Total hours of individual study	**44**

Distribution of time pool per week	**Hours**
1. Study of the course material	7
2. Study according with the course support, manuals	12
3. Study of the minimal bibliography	7
4. Additional documentation in the library	6

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	2
7. Preparing for different written exams	2
8. Preparing for oral examinations	0
9. Preparing for the final examination	1
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	**PHYSIOPATHOLOGY (II)**
Specific professional competencies	- Proper use of the concepts of physiopathology. - Understanding the physiopathological mechanisms and the pathological consequences of their disorder. - Multidisciplinary approach to the notions of physiopathology. - The ability to interpret the knowledge acquired.
Transversal competencies	- Constituting the mechanism of thought in medical practice. - Application of interrelationship techniques within a team; developing empathic interpersonal communication capacities in carrying out group work in order to optimally manage the time to interpret analyses and develop a decision. - Student knowledge of the research activity and its specificity, rigour, teamwork.
General objectives of the discipline	- Knowledge and understanding of physiopathological mechanisms, functioning of apparatus and systems in the course of disease development.
Specific objectives of the discipline	- Development of physiopathological skills useful for interpreting the results of laboratory or paraclinical tests. - Knowledge and understanding of the etiology and physiopathological mechanisms of general reactions such as: inflammatory reaction, shock, etc. - Understanding the basic mechanisms by which the organism operates as a unitary whole and the functioning of systems and apparatus or in the course of disease developments. Understanding the fundamental mechanisms. - The general evolution of conditions according to their character: acute or chronic. Knowledge and understanding of metabolic processes carried out in organs, tissues, cells. - The foundation of theoretical notions that will allow the appropriation of new knowledge in the years following university studies. - Ability to understand and assimilate recent discoveries in the field of physiopathology. - Investigation of metabolisms: carbohydrate, lipid, protein, mineral, hormonal and correlation of biochemical parameters with appropriate pathological situations.

Course Syllabus	Hours
1. Physiopathology of the arterial atherosclerosis and coronary artery disease.	2
2. Physiopathology of cardiomyopapathies and valvulopathies.	2
3. Physiopathology of her heart failure(I).	2
4. Physiopathology of her heart failure (II).	2
5. Physiopathology of rhythm and heart conductive disorders.	2
6. Physiology of the respiratory system (I).	2
7. Physiology of the respiratory system (II).	2
8. Physiology of the digestive system: oesophageal and gastric diseases.	2
9. Physiology of the digestive system: diseases of annex glandes, small and large bowel.	2
10. Physiopathology of the reno-urinary apparatus: unilglomerular disease, acute tubular lesion, tubulo-interstitial disorders and vascular diseases.	2
11. Physiopathology of reno-urinary rat water: chronic renal failure.	2
12. Physiology and circulatory sock	2
13. Physiology of the endocrine system.	2
14. Seminary.	2

Laboratory Syllabus	Hours
1. Electrocardiogram: the normal route.	2
2. Rhythm and conductive disorders	2
3. Atrial and ventricular hypertrophy	2
4. Cardiac ischemia.	2
5. Paraclinical diagnosis of vascular dysfunction: arteries, veins, capillaries.	2
6. Investigation of the respiratory system: spirometry.	2
7. Investigation of the respiratory system: gasometry, pulsoximetry, lung Rx examination.	2
8. Exploration of the digestive system: pancreas, intestine.	2
9. Exploring the functional state of the liver.	2
10. Exploration of renal function: interpretation of blood constants, nitrogen retention syndrome, renal clearance.	2
11. Exploration of renal function: urinary sediment, hematuria, interpretation of glucoseuria, urinal analysis.	2
12. Evaluation of the endocrine system.	2
13. Interpretation of laboratory bulletins.	2
14. Colloquium works practical.	2

Minimal References:
1. Anca Bacârea, Fiziopatologie generală, University Press Tîrgu Mureș, 2013
2. Constantin Bălăeţ, Fiziopatologie - lucrări practice, schițe, Editura Etna, 2014
3. Constantin Bălăeţ, Fiziopatologie - note de curs, Editura Universitară Titu Maiorescu, București, 2011
4. Kumar, Vinay, Abul K. Abbas, Jon C. Aster, and Stanley L. Robbins, Robbins basic pathology. Philadelphia, PA: Elsevier/Saunders, 2013
5. Minerva Boitan, Fiziopatologie vol I,II, - Editura Universitatea Lucian Blaga, Sibiu, 2005
6. Ruth A Hannon; Carol Port, Porth pathophysiology: concepts of altered health states - h - Philadelphia: Wolters Kluwer, 2017
7. S. Silbernagl, F. Lang, R. Gay, A. Rothenburger, Color Atlas of Pathophysiology - Thieme, 2016

Minimal References:
8. Ștefan Sorin Aramă, Fiziopatologie, Editura Cermaprint, București, România, 2009
9. Sue E Huether; Kathryn L McCance, St. Louis, Missouri, Understanding pathophysiology, Elsevier, 2017
10. Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course are exhibited in the teaching and scientific materials of the discipline, monographs, tutors, courses, in which the latest data from national and international literature are taken, corresponding to the maximum expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health in the country.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- Interactive course with PowerPoint projected presentation
Laboratory	- Practical applications in the laboratory

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- for admission to the practical exam the student must carry out all practical works

Consideration points for computing the final score:	Share of the final score (in %) (Total = 100%)
- Responses to the final exam	50 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	20 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	-
- Other activities:	-

Description of the actual methods of examination – E

- Descriptive written test (5 subjects) and a quiz test (10 questions)
- Participation in the final examination shall be subject to:
  - recovery of absences from practical works
  - promotion of the practical exam (which will take place in the last week of the semester)

Minimal requirements for grade 5	Requirements for grade 10
• Correct exposition for 3 out of 5 subjects and 4 out of 10 subjects in the quiz	• Correct exposure of all tests

Date of completion

25.09.2019

Discipline Coordinator,

Nemeș Roxana, M.D., Ph.D., Assist. Professor

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,	**Laboratory Coordinator**,
Nemeș Roxana, M.D., Ph.D., Assist. Professor	Nemeș Roxana, M.D., Ph.D., Assist. Professor Pleșa Cristina, M.D., Ph.D., Univ. Assistant Stoica Cristina, M.D., Ph.D., Univ. Assistant

Department approval date
30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**CLINICAL PHARMACOLOGY**					
Didactic position, name and surname for the Coordinator of the Discipline	**Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor** **Toma Mihai, M.D., Ph.D., Lecturer**					
Discipline Code	**MLE.3.6.11**	Formative category of the discipline			**DS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**4**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**100**	Total hours of individual study	**44**

Distribution of time pool per week	**Hours**
1. Study of the course material	**4**
2. Study according with the course support, manuals	**7**
3. Study of the minimal bibliography	**6**
4. Additional documentation in the library	**0**

5. Specific activity for the seminary or laboratory	7
6. Homeworks, translations, etc.	4
7. Preparing for different written exams	4
8. Preparing for oral examinations	2
9. Preparing for the final examination	6
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	0
15. Other activities:	0

Course name	**LIBER**
Specific professional competencies	- Transmission of information about different classes of medicines. - Acquiring the practical ability to use the submitted concepts by applying them in the prescription of prescriptions.
Transversal competencies	- Cross-cutting competences, acquired through the deepening of specific knowledge, will aim at: • carrying out research projects, elaboration of scientific articles or studies, dissertation work, etc.; • the efficient use of information, scientific and specialist resources on professional career; • effective techniques of human communication in relation to specialists in the field and patients. - awareness of the need for continuous training; efficient use of learning resources and techniques for personal and professional development.
General objectives of the discipline	- *In course:* The central purpose of the course is to appropriate the basic concepts of pharmacology and to assimilate the uses of the main classes of medicines currently used in medical practice. - The general aims of the course are the following: Learning the basic scientific concepts and principles that will serve as the basis for understanding the pharmacology of medicinal products: • understanding the fundamental scientific principles of the action of medicinal products and the mechanisms by which medicinal products can mediate their pharmacological effect • understanding the fundamental principles of pharmacokinetics related to the absorption, distribution, metabolism and elimination of medicinal products from the body • understanding of biochemical reactions that result in the metabolism of medicines in the body • understanding the reasoning behind establishing different dosing regimens in certain categories of patients • understanding how patient-specific and genetic characteristics can affect the response to a particular class of medicines • understanding the scientific basis behind how two different medicines can interact in the body and cause undesirable effects

	- Understanding pharmacology and clinical use of major classes of drugs: drugs affecting the autonomic nervous system; anesthetics and analgesics; medicines diseases of the cardiovascular system; medicines affecting the respiratory system; antibiotics; medicines used in the treatment of psychiatric disorders; medicines that affect the immune system; medicines affecting the endocrine system; dietary supplements and herbal medicines; antibiotic, antiviral and cancer medicines - *In practical work*: - the acquisition of prescription and reception of master and printed preparations; the application of theoretical notions acquired in the course by prescribing prescriptions. -
Specific objectives of the discipline	- At the end of the course the student must have mastered specific aspects related to each class of drugs and each drug as follows. - indications – under what circumstances the medicine is used - mechanism of action – which is the scientific basis behind its actin - pharmacokinetics – there are factors such as absorption, distribution, metabolism or elimination that may affect the clinical effects of the drug in categories of patients. - side effects – are there any relevant side effects that can adversely affect the patient's health? - contraindications – under what circumstances should a particular medicinal product not be given to a particular category of patients - drug interactions – there are possible interactions with concomitant medication that could affect the efficacy and bioavailability of the drug.

Course Syllabus	**Hours**
1. General anesthetics. Local anesthetics.	2
2. Hypnotics, sedatives, psychomotor stimulants.	2
3. Central motor depressants: antiepileptic, antiparkinsonian, central myorelaxants.	2
4. Pharmacological influence of cognitive function: neuroleptics, Alzheimer's disease medication, nootropics.	2
5. Pharmacological influence of affective function: antidepressants and lithium, mood stabilizers, anxiolytics (minor tranquilizers).	2
6. Opioid painkillers and opioid antagonists.	2
7. Analgesics, antipyretics, anti-inflammatory. Antigut medication: Active drugs in gout crisis. Uricosuric drugs. Uricinhibitor drugs. Medication in gout. Medication in rheumatoid arthritis: Gold compounds. Antimalarials. Penicillamine. Sulfasalazine. Immunosuppressants and/or cytotoxics. Anti-TNF-a drugs.	2
8. Treatment of diabetes mellitus. Insulin, oral antidiabetics, glucagon	2
9. Endocrino-hormonal therapy. Gluco- and mineralocorticoids. Thyroid hormones and antithyroids: Thyroid hormones. Antithyroids. Iodine and iodine. Radioiodine. - Somatotropin, somatostatin, prolactin and bromocriptin. Sex hormones: Estrogens. Progestin. Testosterone. Antiestrogens. Antiprogestogens. Antiandrogens. Gonadotropins and gonadorelin. Anabolic substances.	2
10. Antibiotics: classification, antibiotic resistance, beta-lactam antibiotics (penicillins, cephalosporins, monobactami and carbapenemi).	2

Course Syllabus	Hours
11. Antibiotics: sulfonamides, trimetoprim, quinolones, macrolides and lincosamides, tetracyclines, chloramphenicol, aminoglycosides. Polypeptide antibiotics. Anti-tuberculosis medication. Leprosy medication	2
12. Antifungal. Antiviral. Mechanism of action (antiviral antiinfluenza agents, active antivirals versus herpes virus, active antivirals against hepatitis viruses, antivirals active against human immunodeficiency virus). Virus resistance to antiviral drugs. Other antivirals. Interferons.	2
13. Cancer therapy: types of therapies, cytostatic toxicity, cytostatic classification.	2
14. Antiseptics and disinfectants	2

Laboratory Syllabus	Hours
1. Reception of local anesthetics. General anesthetics.	2
2. CNS reception: prescribing hypnotic, sedatives.	2
3. CNS reception: prescribing anxiolytics, antipsychotics	2
4. CNS reception: Antidepressants and anticonvulsants	2
5. CNS reception: Opioid analgesics and opioid antagonists.	2
6. Reception: analgesics, antipyretics, anti-inflammatory.	2
7. Reception: Gluco- and mineralocorticoids Medication in gout. Medication in rheumatoid arthritis.	2
8. Reception: Treatment of diabetes mellitus	2
9. Reception: Endocrino-hormonal therapy	2
10. Antibiotic reception	2
11. Antibiotic reception - continuation	2
12. Antibiotic reception (continued)	2
13. Review of the concepts taught and preparation for the exam.	2
14. Practical examination	2

Minimal References:
1. Lippincott - Farmacologie ilustrata, editia a 5-a Richard A. Harvey. Editura: Callisto
2. Aurelia Nicoleta Cristea (sub redacţia) - Tratat de farmacologie, Ed. Medicală, Bucureşti, 2005;
3. Valentin Stroescu, Bazele farmacologice ale practicii medicale, Ediţia a VII-a, Editura Medicală, Bucureşti 2001;
4. Valentin Stroescu (sub red) Farmacologie- teste de evaluare, editura All 2001.
5. Valentin Stroescu, Indreptar pentru prescrierea medicamentelor, ed. ALL, ed.III-a 1998.
6. I. Fulga. Farmacologie, Ed. Medicală, Bucureşti, 2004.
7. Sorin Paveliu Farmacologie clinica - note de curs. Editura Infomedica, Bucureşti 2002.
8. Sorin Paveliu Farmacologie clinica – teste de evaluare - Editura Infomedica, Bucureşti 2009.
9. Bertram G. Katzung, Basic & Clinical Pharmacology, 10th Edition, Editura The McGraw-Hill Companies, Inc. 2007
10. Goodman and Gillman`s – The Pharmacological Basis of Therapies (12th edition). McGraw Hill Publising 2011

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course are exhibited in the teaching and scientific materials of the discipline, monographs, tutors, courses, in which the latest data from national and international

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
literature are taken, corresponding to the maximum expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health in the country.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- PowerPoint-based presentation on projector screen
Laboratory	- Practical activities in the laboratory

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
- the appropriation of the concept of a prescription; - the appropriation of the concepts of master and typed preparation; - the application of the theoretical knowledge acquired in the course, prescribing different types of recipes; - proof that they have been able to acquire the information submitted through three types of seminars, namely: verification from the concepts of general pharmacology, verification from the notions of SNV, verification from the notions of CNS.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	70 %
- Responses to the laboratory examination	Admitted / Rejected
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	10 %
- Other activities:	0

Description of the actual methods of examination – E

- The final examination is based on a quiz test

Minimal requirements for grade 5	**Requirements for grade 10**
• regular testing through control works with correct final answers >50%, i.e. obtaining satisfactory scores during these tests during the semester • correctly prescribing a prescription • correct completion of at least 50% of the subjects in the final exam.	• Assimilation of the elements and correct prescribing of the two prescriptions according to the requirements • Getting scores of more than 90% in intermediate tests • Presentation of a report/translation/ as required or participation in the activity of a student-level research project.

Date of completion

25.09.2019

Discipline Coordinator,

Head of the Department,

Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor	Nemeș Roxana, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	**Laboratory Coordinator**,
Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor	Marian Sorin Paveliu, M.D., Ph.D., Assist. Professor Toma Mihai, M.D., Ph.D., Lecturer

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**PRECLINICAL SCIENCES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**SURGICAL MANOEUVERS SKILLS (1ST MODULE)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Moldovan Cosmin, M.D., Ph. D, Lecturer**					
Didactic position, name and surname for the Coordinator of the Course	**Moldovan Cosmin, M.D., Ph. D, Lecturer**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Moldovan Cosmin, M.D., Ph. D, Lecturer**					
Discipline Code	**MLE.3.6.12**	Formative category of the discipline			**SS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**2**

No. of Hours per week	**4**	Out of which are Course hours:	**2**	Seminar / Practical Activity / Clinical Stage	**2**
Total of hours in the curriculum	**56**	Out of which are Course hours:	**28**	Seminar / Practical Activity / Clinical Stage	**28**
		Total hours per semester	**56**	Total hours of individual study	**0**

Distribution of time pool per week	**Hours**
1. Study of the course material	
2. Study according with the course support, manuals	
3. Study of the minimal bibliography	
4. Additional documentation in the library	

5. Specific activity for the seminary or laboratory	
6. Homeworks, translations, etc.	
7. Preparing for different written exams	
8. Preparing for oral examinations	
9. Preparing for the final examination	
10. Consultations	
11. In the field documentation	
12. Documentation from web sources, portals, wiki websites	
13. Tutoring	
14. Examinations	
15. Other activities:	

Course name	**LIBER**
Specific professional competencies	- Knowledge of the instrumentation used in classical and laparoscopic surgeries.. - The acquisition of examination manoeuvres specific to general surgery. Pre and postoperative care of the surgical patient. - Principles of surgical technique and the ability to understand the indication, necessity and purpose of the recommended surgical procedure. - Theability to devise an appropriate therapeutic plan.
Transversal competencies	- Efficient use of communication resources and assisted professional training (internal portals, specific applications, databases, online applications) both in lb. Romanian as well as in a language of international circulation. - Performing a work or project by carrying out with responsibility tasks specific to the role of working in a pluridisiplinary team. - The provision of teamwork skills, oral and written communication, the use of information technology, the availability for learning autonomy and deshideability for life long learning, respecting and developing professionalethics.
General objectives of the discipline	- The insinuation of basic notions on the treatment of surgical conditions. - Performing anamnesis and complete clinical examination aselor well as working and surgicalale knowledge of the basic,requesting appropriate complementary investigations, formulating a positive and differential correct diagnosis. - Design and application of a therapeutic plan appropriate to the identified condition.
Specific objectives of the discipline	- Knowledge of the peculiarities of the various types of surgery as well as the instrumentation used during them. - Isussion of the notions of preoperative preparation and postoperative follow-up of the surgical patient as well as knowledge of the basic principles of classical chirurigcal treatment and modern means of minimally invasive treatment. - The ability to integrate into a multidisciplinary activity that allows identification of the optimal therapeutic solution as well as the possibilities of adaptation to teamwork.

Course Syllabus	Hours
Course 1. Introduction and brief history of laparoscopic surgery. Difficulties and peculiarities specific to laparoscopic interventions	2
Course 2. Technology, apparatus and laparoscopic instrumentation • Principles of laparoscopy • Advantages and disadvantages of laparoscopic surgery • Description of laparoscopic equipment	2
Course 3. Laparoscopy as a means of diagnosis • Assessment of liver disease • Evaluation of abdominal tumors • Evaluation of peritoneal infections • Evaluation of jaundice syndrome • Stadialization of pancreatic cancer • Stadialization of gastric cancer	2
Course 4. Laparoscopic approach to hiatal hernias and gastroesophageal reflux • Indications and contraindications of operators • Principles of laparoscopy • Advantages and disadvantages • Objectives of laparoscopic interventions • Classification of surgical procedures in the treatment of hiatal hernias and gastroesophageal reflux • Operator device • The main laparoscopic procedures	2
Course 5. The laparoscopic approach to cardia achalasia. Laparoscopic vagotomy • The laparoscopic approach to cardia achalasia. Operation Heller • Laparoscopic vagotomy. Taylor procedure	2
Course 6. Laparoscopic approach in the lithiasis and non-lithiasic pathology of the gallbladder • Laparoscopic cholecystectomy • Intra and postoperative complications of laparoscopic cholecystectomy	2
Course 7. Iatrogenic lesions of the main bile duct • General • Production mechanisms • Types of iatrogenic lesions of CBP during laparoscopic cholecystectomies • Classification systems • Laparoscopic repair procedures	2
Course 8. Laparoscopic repair procedures • Liver trauma. • Liver abscesses.	2
Course 9. Laparoscopic appendectomy • Hepatic hydatic cyst.	2
Course 10. Laparoscopic approach of colo-rectal malignancies • Total laparoscopic mesorectal excision • Assisted laparoscopic right hemicolectomy • Intraoperative incidents and accidents – Laparoscopic bleeding control	2
Course 11. Laparoscopic approach of inguinal hernias • General principles of treatment of hernias of the abdominal wall • Laparoscopic prosthesis techniques • Endoabdominal anatomical aspect of the anterior abdominal wall	2

Course Syllabus	Hours
• NYHUS classification of inguino-femoral hernias.	
Course 12. Laparoscopic approach to stress urinary incontinence and genital prolapse • Physiology of stress urinary incontinence and genital prolapse • Laparoscopic retropubic colpopexia (Laparoscopic Burch procedure) • Laparoscopic histeroligamentopexy	2
Course 13. Laparoscopic approach to benign ovarian cystic pathology • Ideal cystectomy • Laparoscopic ovaryectomy	2
Course 13. Surgical maneuvers specific to laparoscopic surgery • Relization of pneumoperitone • Control of arterial and venous haemorrhage • Management of vascular wounds when introducing the first trocar • Tissue haemorrhage control • Intra and extra-corporeal nodes • Laparoscopic intraoperative colangiography	2

Laboratory Syllabus		Hours
1.	Dressings and wrap (vol. I, chapters 28 and 29, pp. 167 – 173).	2
2.	Asepsis and antisepsis (vol. I, chapter 8, pp. 32 – 37).	2
3.	Technical details in laparoscopic surgery and diagnostic laparoscopy. (vol. I, Chapter 1,2,3 pp. 223-241).	2
4.	Surgical instrumentation for classical surgery (vol. I, chapter 23, pp. 120 -122).	2
5.	Surgical instrumentation for laparoscopic surgery (vol. I, chapter 23, pp. 120-122).	2
6.	Equipment used in laparoscopic interventions (image display systems, signal processing systems, storage systems, lavage-suction devices, pneumoperitone-making and maintenance devices, electrosurgery platforms) - (vol. I, cap. 30, pp. 175 – 185).	2
7.	Plagues and surgical suture (vol. I, chapter s. 25 and 27, pp. 139 – 166).	2
8.	Incision and drainage (vol. I, chapter 26, pp. 143-149).	2
9.	Vesical survey (vol. I, chapter 15, pp. 78 to 81).	2
10.	Interpretation of radiological investigations used in surgical diagnosis (radioscopies, radiographs, colangiography) (vol. I, chapters 4, 5 and 6, pp. 17 – 25).	2
11.	Interpretation of ultrasonic investigations used in surgical diagnosis (transabdominal ultrasound, transvaginal ultrasound, superficial venous Doppler ultrasound) (vol. I, chapters 4, 5 and 6, pp. 17 – 25).	2
12.	Endoscopic investigations used in the diagnosis of surgical patholgs (upper digestive endoscopy, lower digestive endoscopy) - (vol. I, chapter 23, pp. 120 -122).	2
13.	Techniques in classical surgery (aponevroses suture, skin suture, digestive sutures) - (vol. I, head. 30, pp. 175 – 185).	2
14.	Suture technique in laparoscopic surgery (intracorporeal suture, extracorporeal suture, use of mechanical suture devices) - (vol. I, chapter 23, pp. 120 -122).	2

Minimal References:	
1.	F.D. Ungureanu, Moldovan Cosmin et al. Curs de Chirurgie - Vol 1 – Editia a 3-a: Patologia chirurgicala a esofagului; Patologia chirurgicala a intestinului subtire, Editura Titu Maiorescu, Bucuresti 2012

Minimal References:
2. F.D. Ungureanu, Moldovan Cosmin et al. Curs de Chirurgie - Vol 2 – Ediția a 2-1: Patologia chirurgicala a ficatului; Traumatismele toraco-abdominale, Bucuresti 2014;
F.D. Ungureanu, Moldovan Cosmin et al. Curs de Chirurgie - Vol 4 – Ediția a 2-a: Patologia chirurgicala a stoamacului; Patologia chirurgicala colorectala; Apendicita acuta; Defectele parietale abdominale;
3. Patologia venoasa periferica, Bucuresti 2014;
4. Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- All the topics taught in the course and practical internships are exhibited in the teaching and scientific materials of the discipline, monographs, guides,courses, in which are taken the latest data from the national and international literature, corresponding to the maximum share of the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health in the country. Most of the topics on display are the correspondent of the scientific content requested by the bibliography of the national residency contest.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	- 2-hour on-screen video-playback course (Power Point presentations); - Drawings on flipchart and magnetic board.
Laboratory	- Practice in the ward and dressing rooms of the general surgery department, examination methods, presentation of clinical cases with the emphasis of specific lesions and methods of treatment, the establishment of patient care techniques and de baza basic therapeutic notions and principles of surgical procedures e. - Pplayback and explication of the notions of practical works guides, observation of surgery transmitted live from the block oonthe rator through the video system integrated into the scialytic lamps, daily recording of the cases presented in the case book of the internship, periodic evaluations in the form of weekly seminars and half-yearly test.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
For admission to the practical examination of traineeship: • Full restoration of absences at clinical stage; • The presence of the student at all seminars; • Completion of the case book; • Promotion to written evaluation tests during the semester. **Evaluation at the** clinical stage**:** • Orala orala a presentationof the selected clinical casefrom the case available in the Surgery Clinic;; • The correct performance of clinical manoeuvres entered in the technique of objective examination with references to the selected case;;

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
• Knowledge of normal and patholgic values of biological constants; • Knowledge of the minimum instrumentation required for small surgeries;; • Correct interpretation of imaging; • Detailed knowledge of the means of asepsis and surgical antisepsisof. **For admission to the final evaluation:** • Attendance at 80% of the courses taught; • Promotion of the oral practicalexamination; • Promotion of periodic tests during the semester; • Promotion of weekly seminars.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	50 %
- Responses to the laboratory examination	20 %
- Periodic checks with written exams	10 %
- Continuous testing throught the semester	10 %
- Projects / Translations / Posters / Essays, etc.	10 %
- Other activities:	10 %

Description of the actual methods of examination – E

- Quiz with 50 questions from the topic of the courses. The duration of the examination is 1 hour.

Minimal requirements for grade 5	**Requirements for grade 10**
• Correct answer to 50% of the questions from the final written evaluation or partial exposure of the topics in the course theme;; • Knowledge of sepsis and surgical antisepsis;; • Knowledge of 50% of the classic surgical instrumentation • Knowledge of 60% of laparoscopic surgical instrumentation • Knowledge of at least 50% of the constantise biological and imaging.	• Correct and complete answer to all 50 questions from the final evaluation • Proper presentation of the clinical case, with complete and correct differential diagnosis, proper and correctly presented treatment principles • 100% knowledge of the classic surgical instrumentation • 100% knowledge of laparoscopic surgical instrumentation • Complete knowledge of biological constants and medical imaging data of interest in general chriurgy.

Date of completion

25.09.2019

Discipline Coordinator,

Moldovan Cosmin, M.D., Ph. D, Lecturer

Head of the Department,

Nemeș Roxana, Assoc. Professor, M.D., Ph. D.

Course Coordinator,	**Laboratory Coordinator**,
Moldovan Cosmin, M.D., Ph. D, Lecturer	Moldovan Cosmin, M.D., Ph. D, Lecturer

Department approval date

30.09.2019

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**MEDICO-SURGICAL AND PROPHILACTIC DISCIPLINES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSE**
Study program	**MEDICINE**

Discipline`s Name	**HYGENE AND ENVIROMENTAL HEALTH (II)**					
Didactic position, name and surname for the Coordinator of the Discipline	**Dan Mânăstireanu, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Course	**Dan Mânăstireanu, M.D., Ph.D., Univ. Professor**					
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Sandu Simona Miriana, M.D., Ph.D., Lecturer**					
Discipline Code	**MLE.3.6.13**	Formative category of the discipline			**DS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)		**E6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)			**M**	No. of credits		**2**

No. of Hours per week	**2**	Out of which are Course hours:	**1**	Seminar / Practical Activity / Clinical Stage	**1**
Total of hours in the curriculum	**28**	Out of which are Course hours:	**14**	Seminar / Practical Activity / Clinical Stage	**14**
		Total hours per semester	**50**	Total hours of individual study	**22**

Distribution of time pool per week	**Hours**
1. Study of the course material	3
2. Study according with the course support, manuals	3
3. Study of the minimal bibliography	1
4. Additional documentation in the library	2

5. Specific activity for the seminary or laboratory	3
6. Homeworks, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	3
9. Preparing for the final examination	4
10. Consultations	0
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	**HYGENE AND ENVIROMENTAL HEALTH (II)**
Specific professional competencies	• Creating skills on the study of hygiene issues, scientific news and their applicability in practice through individual and collective concrete measures; • Aligning with the requirements of the European Union by looking at the possibilities of integrating European legislation into the local context of our country with the characteristic studyspecific to each field;; • Communication of specific practical findings related to a particular branch to be correlated in the general scientific context;
Transversal competencies	• Demonstrate concern for continuous professional improvement by training abilities of thought and discipline-specific practice. • Integrate the theoretical and practical knowledge acquired in hygiene discipline with that obtained in other fundamental disciplines and use it as a platform for clinicaltraining. • Stimulation of interdisciplinary collaboration, efficient use of learning resources to increase professionalefficiency. • Haveinitiative, get involved in the educational and scientific activities of thediscipline. • Know how to use information and communicationtechnology.
General objectives of the discipline	• Familiarity with the fundamental notions of hygiene; assimilation of the necessary knowledge of the doctor on hygienic-sanitary rules imposed by the legislation in force in the hospital and extra-hospital environment. • Understanding the specifics of the discipline and the characteristics that differentiate it from the other disciplines. Prophylaxis – the essence of prevention. • Information on the health legislation in force, the field of hygiene and how it is applied. Competent institutions.
Specific objectives of the discipline	• Recognition of risk factors on human health and their effect; • Learning the techniques and practical methods of investigating risk factors for human health and the environment, • Understanding the means of preventing disease through these risk factors, • Practical application of the health legislation in the field and the consequences of its non-compliance.

	• - Understanding the need for measures to protect the environment, individual and collective activities to fight pollution.

Course Syllabus	Hours
1. Food hygiene.	2
2. Physiological basis of food intake	2
3. Nutritional value and food hygiene	2
4. Rational nutrition and dietary habits	2
5. The hygiene of businesses with food profile	2
6. Youth hygiene, tobacco, alcohol, drugs and coffee - harmful factors for the health of the student	2
7. Nosocomial infections	2

Laboratory Syllabus	Hours
1. The nutritional needs of man. The energy requirement.	2
2. Rational food.	2
3. Food pathology – food imbalance diseases	2
4. Determination of nutritional and hygienic quality of the main food classes	2
5. Sanitary rules on the main classes of food	2
6. Food fats. Obesity	2
7. Additives.	2

Minimal References:
1. Hygiene treatment under Sergiu Mănescu- Volume I,I,III. Medical Publishing, Bucharest 1984-1987
2. Practical hygiene and medical ecology - prof. dr. Sorina Doroftei. Eurobit Publishing House 1999-Timișoara
3. Practical applications in environmental health -prof.dr.Carmen Ionuț, University Medical Publishing House "Iuliu Hatieganu", Cluj-Napoca 1998
4. Food and Nutrition Hygiene- University Medical Publishing House "Iuliu Hatieganu", Cluj-Napoca 2001
5. Guide for Practitioners-Fewer Risks by Injections -Ministry of Health,Institute of Public Health Bucharest,1999
6. Practical Guide to The Management of Accidental Exposure to Biological Products-Ministry of Health, Institute of Public Health Bucharest,2004
7. Bălan A. and collaborators, Guide on cleaning, disinfection and sterilization in healthcare units, Institute of Public Health Bucharest,2001
8. Compendium of hygiene under the editorship of Prof. Dr. Carmen Ionut- University Medical Publishing "Iuliu Hatieganu", Cluj-Napoca 2004
9. Occupational Hygiene and Medicine – conf.dr.Corina Moldovan – Publishing House of the University of Oradea – 1999
10. prof.dr. Dan Monastereanu - Notes of course and works practiwhat hygiene. UTM Publishing. 2010
11. European environmental policy and legislation / IONESCU, CRISTINA,.- Bucharest : H*G*A* , 2000
12. Anca Dumitrescu - Communication of the health risk generated by mediu, Ed. Institute of Public Health Bucharest, 2000

Minimal References:
13. ORDIN No 1226 of 3 December 2012 for the approval of the Technical Rules on the Management of Waste from Medical Activities and the Methodology for the Collection of Data for the National Database on Waste from Medical Activities
14. ORDIN No. 119 of 4 February 2014 for the approval of the Hygiene and Public Health Rules on the Living Environment of the Issuer Population: Ministry of Health Published In: Official Gazette No. 127 of 21 February 2014
15. Official course

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:
- The course allows integration into a responsible professional environment, the development of applied research programmes, being in line with the requirements of European university education by constantly updating the information and thus corresponding tothe expectations ofthe representatives of theepistemic community, professional associations and representative employers in the field of Health.

Disemination of the information	
Type of activities	**Didactic Methods Employed**
Course	• Multimedia projection of the material according to the analytical program accompanied by interactive programmed education, in order to form the practical learning of the theoretical and practical notions accumulated and acquired.
Laboratory	• Presentation of the rules for the protection of work in the laboratory • Demonstrations of laboratory examinations • Execution of "own manum" of various laboratory analyses • Demonstration of the aggressiveness of smoking

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:
Minimum scale of activities to be performed by the student in practical work • Presence of a minimum of 6 LP – with recoveries. • Acquiring laboratory techniques. • Knowledge of notions of CMA, permissible limits, pollution, - Preparation of at least 1 report with a given or choice topic.
All activities/manoeuvres necessary for the student's acquisition of the minimum level of general and specific competences of the discipline will be listed: • Individual study of materials presented in courses and bibliography requested. • Acquiring how to draw up a profile essay/reference, • The development of hygiene-specific laboratory techniques.

Consideration points for computing the final score:	**Share of the final score (in %) (Total = 100%)**
- Responses to the final exam	60 %
- Responses to the laboratory examination	25 %
- Periodic checks with written exams	5 %
- Continuous testing throught the semester	5 %

- Projects / Translations / Posters / Essays, etc.	5 %
- Other activities:	-

Description of the actual methods of examination – E

- written work
- individual practical examination

Minimal requirements for grade 5	Requirements for grade 10
• Active presence at all practical work • Obtaining a grade 5 by summarizing the points obtained in the written test and the report	• Obtaining a grade 10 by summarizing the points obtained in the written and reportedsample.

Date of completion

25.09.2019

Discipline Coordinator,

Dan Mânăstireanu, M.D., Ph.D., Univ. Professor

Head of the Department,

Ulmeanu Dan, M.D., Ph.D., Assist. Professor

Course Coordinator,

Dan Mânăstireanu, M.D., Ph.D., Univ. Professor

Laboratory Coordinator,

Sandu Simona Miriana, M.D., Ph.D., Lecturer

Department approval date

30.09.2019

TITU MAIORESCU UNIVERSITY OF BUCHAREST
FACULTY OF MEDICINE
MEDICINE IN ENGLISH
ACADEMIC YEAR: 2019-2020

DISCIPLINE FILE

Faculty	**MEDICINE**
Department	**MEDICO-SURGICAL AND PROPHILACTIC DISCIPLINES**
Field of study	**HEALTHCARE**
Study cycle	**LICENSEs**
Study program	**MEDICINE**

Discipline`s Name	**YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES**				
Didactic position, name and surname for the Coordinator of the Discipline					
Didactic position, name and surname for the Coordinator of the Course	**Veselu Gabriel, M.D., Ph. D., Lecturer** **Nemeș Roxana, M.D., Ph. D., Assist. Professor**				
Didactic position, name and surname for the Coordinator of the Seminary / Laboratory / Clinical Stage	**Veselu Gabriel, M.D., Ph. D., Lecturer** **Nemeș Roxana, M.D., Ph. D., Assist. Professor**				
Discipline Code	**MLE.3.6.14**	Formative category of the discipline		**SS**	
Year of Study	**III**	Semester	**6**	Type of the final evaluation (**E, V**)	**V6**
Discipline Regime (**M**-**m**andatory, **Op**-**op**tional, **F**-**f**acultative)		**M**	No. of credits	**2**	

No. of Hours per week	**40**	Out of which are Course hours:	-	Seminar / Practical Activity / Clinical Stage	**40**
Total of hours in the curriculum	**160**	Out of which are Course hours:	-	Seminar / Practical Activity / Clinical Stage	**160**
		Total hours per semester	**160**	Total hours of individual study	-

Distribution of time pool per week	**Hours**
1. Study of the course material	-
2. Study according with the course support, manuals	-
3. Study of the minimal bibliography	-

4. Additional documentation in the library	-
5. Specific activity for the seminary or laboratory	-
6. Homeworks, translations, etc.	-
7. Preparing for different written exams	-
8. Preparing for oral examinations	-
9. Preparing for the final examination	-
10. Consultations	-
11. In the field documentation	-
12. Documentation from web sources, portals, wiki websites	-
13. Tutoring	-
14. Examinations	-
15. Other activities:	-

Course name	**YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES**
Specific professional competencies	- Knowledge, understanding, explanation and interpretation of all theoretical knowledge obtained during the year - Practical application of health legislation in the field and consequences of non-compliance - Understanding the need for first aid measures, individual and collective activities.
Transversal competencies	- Development as future medical professionals with direct specification of the three-dimensional valences of their entity – doctor, family member and participant in social life
General objectives of the discipline	- Familiarization of students with daily practice, based on the theoretical knowledge obtained
Specific objectives of the discipline	- Understanding the importance of practical activity for your entire medical career.

Course Syllabus	**Hours**
1. Medical language – the correct/logical usețof medical notions in the clinic (anamnesis, normal and pathological personal history, heredocollateral history) when drawing up the observation sheet.ție.	30
2. Administrative - the rights and obligations of the patient, obtaining informed consent, general notions about malpraxis, general notions of hospital management, knowledge of the rules contained in the framework of "universal precautions.	30
3. Hygiene-dietetic and microclimate - surgical hand washing, disinfection of țhe hands with alcoholic solutions, dressing sterile equipment for the operating room, rules and methods of disinfection, asepsis and antisepsis.	20
4. Observation sheet. Definition, Presentation structure by chapters, Patient supervision - T, AV, breathing, diuresis, stool, vomiting, perspiration, sputum, observation of monitoringț vital functions by invasive methods. **Anamnesis:** Objective examination, Inspection, Edema, Semiology respiratory apparatus, ganglia. Clinical examination of the respiratory system.	40
5. Medical-surgical maneuvers - non-invasive measurement of TA and venous pressure, determination of caused hyperglycaemia, artificial ventilation and IOT, pathological EKG analysis; peripheral and central venous approach, venous blood collection, uroculture harvesting, sputum, collection of digestive secretions.	40

Laboratory Syllabus	Hours
1. -	-

Minimal References:	
1.	Proca E., sub red- Tratat de patologie chirurghicală, vol.I, Ed.Med., Bucureşti, 1989;
2.	Vexler L., Dănilă N.- Mica chirurghie Ed.Junimea, Iaşi, 1984
3.	Kaufmann A., sub red- Propedeutică şi semiologie chirurghicală, Ed.Dacia, Cluj-Napoca, 1986.
4.	Angelescu N.- Tratat de patologie chirurghicală- Ed.Med, vol.1 şi 2, Bucureşti, 2001;
5.	Prişcu Al.- Chirurghie, vol.1 şi 2- Ed.did.ped., Bucureşti, 1994-1995;
6.	Bancu V.E. şi colab.- Patologie chirurghicală- Ed.did.ped., Bucureşti, 1983
7.	Angelescu N., Andronescu PD, Chirurgie generală.. Ed.Medicală, Bucureşti, 2000
8.	Prof. Dr. Kikeli Pal Istvan, Profilaxia in medicina de familie, editura Procardia 2001, litografia UMF 2002.
9.	Restian, M. Mateescu, Ghid practic de medicina familiei, Ed. Universitara C. Davila Buc., 1998

Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the Healthcare Industry:

- The completion of the specialized practical training course allows the integration of the future doctor in a responsible professional environment, the skill of collaboration with specialists from various fields, the development of the capacity to provide clinical assistance in a variety of problems corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers in the field of Health.

Disemination of the information

Type of activities	Didactic Methods Employed
Course	-
Laboratory	• The usual activity of the institution • Activity at the patient's bed. • Presentation of methodological elements, group discussions, group exercise, case analysis, demonstrations, dose calculation, case presentations, documentary visits, practice book.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works in order to be accepted to the final laboratory exam:

- Practice scale: Completion of the practice book, Practice Convention, Specialty Practice Assessment Sheet

Consideration points for computing the final score:	Share of the final score (in %) (Total = 100%)
- Responses to the final exam	60 %
- Responses to the laboratory examination	-
- Periodic checks with written exams	40 %
- Continuous testing throught the semester	-
- Projects / Translations / Posters / Essays, etc.	-
- Other activities:	-
Description of the actual methods of examination – E	

- Oral examination with 5 questions	
Minimal requirements for grade 5	**Requirements for grade 10**
• 5 –50 % of the course syllabus	• 100 % of the course syllabus

Date of completion

25.09.2019

Discipline Coordinator,

-

Head of the Department,

Ulmeanu Dan, M.D., Ph. D., Assist. Professor

Course Coordinator,

Veselu Gabriel, M.D., Ph. D., Lecturer
Nemeș Roxana, M.D., Ph. D., Assist. Professor

Laboratory Coordinator,

Veselu Gabriel, M.D., Ph. D., Lecturer
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Department approval date

30.09.2019