



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	GENERAL SURGERY (I)			
Didactic position, name and surname of the Discipline Coordinator	Irinel Popescu, M.D., Ph. D., Professor			
Didactic position, name and surname for the Course Coordinator	Irinel Popescu, M.D., Ph. D., Professor			
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Florin Botea, M.D., Ph. D., Lecturer Gabi Dincă, M.D., Ph. D., Lecturer Cristian Cîrlan, M.D., Ph. D. Candidate Mihai Tănase, M.D.			
Discipline Code	MLE.5.9.1	Formative category of the discipline	SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)
Discipline Regime (M-mandatory, Op-optional, F-facultative)			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		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	4
3. Study of the minimal bibliography	2
4. Additional documentation in the library	4
5. Specific activity for the seminary or laboratory	2
6. Homeworks, translations, etc.	2
7. Preparing for different written exams	4
8. Preparing for oral examinations	4
9. Preparing for the final examination	4
10. Consultations	2
11. In the field documentation	4
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	2
15. Other activities:	2

Course name	GENERAL SURGERY (I)
Specific professional competencies	<ul style="list-style-type: none"> • Knowledge of the pathological peculiarities and morbid associations of the surgical patient, acquiring the notions of preoperative preparation and postoperative follow-up of the surgical patient, as well as knowledge of the basic principles of classical surgical treatment and modern means of minimally invasive treatment. • The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibility of adapting to teamwork. • The ability to single-handedly design an appropriate therapeutic plan.
Transversal competencies	<ul style="list-style-type: none"> • Effective use of communication resources and assisted professional training (internal portals, specific applications, databases, online applications), both in Romanian and in an international language. • Completing a work or a project by carrying out responsibly the tasks specific to the role of working in a multidisciplinary team. • Acquiring teamwork abilities, oral and written communication skills, using information technology, availability for autonomous learning and openness to lifelong learning while respecting and developing professional ethics.
General objectives of the discipline	<ul style="list-style-type: none"> • Acquiring the basic knowledge regarding the physiopathology, diagnosis and treatment of surgical conditions. Knowledge of imaging and laboratory investigations. • Attitude in emergencies that belong to the field of general surgery. • Carrying out the anamnesis and the complete clinical examination, as well as knowing the basic surgical procedures, requesting the appropriate complementary investigations, formulating a correct positive and differential diagnosis.

	<ul style="list-style-type: none"> • Conception and application of a therapeutic plan suitable for the indicated condition.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Knowledge of the instruments used in minor surgical interventions. • Learning the examination maneuvers specific to general surgery. Appropriate care of the surgical patient. • Principles of surgical technique. • Attitude in surgical emergencies.

Course Syllabus	Hours
1. TOPIC 1. Acute surgical abdomen. Overview.	2
2. TOPIC 2. Dynamic and mechanical non-ischemic intestinal occlusions.	2
3. TOPIC 3. Mechanical ischemic intestinal occlusions.	2
4. TOPIC 4. Entero-mesenteric infarction.	2
5. TOPIC 5. Acute peritonitis. Overview. Pathophysiology.	2
6. TOPIC 6. Acute generalized and localized peritonitis.	2
7. TOPIC 7. Acute appendicitis.	2
8. TOPIC 8. Upper gastrointestinal bleeding - etiology, pathophysiology, classification, clinical presentation, diagnosis.	2
9. TOPIC 9. Upper gastrointestinal bleeding - classic and minimally invasive medical and surgical emergency treatment.	2
10. TOPIC 10. Mechanical jaundice - etiology, pathophysiology, anatomical and clinical classification, clinical presentation, pre- and intraoperative diagnosis.	2
11. TOPIC 11. Mechanical jaundice - classic surgical procedures and modern minimally invasive methods of treatment.	2
12. TOPIC 12. Portal hypertension.	2
13. TOPIC 13. Liver cirrhosis.	2
14. TOPIC 14. Liver transplantation.	2

Laboratory Syllabus	Hours
1. The technique of presenting clinical cases in surgery.	3
2. Preoperative preparation and postoperative care.	3
3. Surgical risk assessment of associated organic dysfunctions and anesthetic-surgical risk scales.	3
4. Surgical bleeding and transfusion.	3
5. Localized and generalized surgical infections. Antibiotherapy in surgery.	3
6. Upper and lower GI endoscopy. ERCP.	3
7. Current techniques in laparoscopic surgery - principles of surgical technique.	3

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

All the topics taught in the course and practical activities can be found in the didactic and scientific materials of the discipline, the monographs, guides, and courses. The latest data from the national and international specialized literature are presented, corresponding to the maximum level of expectations of representatives of the epistemic community, professional associations and representative employers in the health sector of the country. Most of the presented themes correspond to the scientific content required by the bibliography of the national residency competition.

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive learning. • Multimedia projection of course support. • Magnetic board and flip-chart drawings.
Laboratory	<ul style="list-style-type: none"> • Practicing in the patient and surgical dressing rooms of the general surgery department of examination methods, presentation of clinical cases with emphasis on specific lesions and treatment methods, acquisition of patient care techniques and basic therapeutic notions and principles of surgical procedures. • Teaching and explaining the notions from the practical work guides, observing the surgical interventions transmitted directly from the operating theatres through the video system integrated in the scialityc lamps, daily recording of the cases presented in the internship casebook, periodic evaluations in the form of weekly seminars and semester test.

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

- For admission in the practical internship exam:
- Complete restoration of absences during the clinical internship
 - Student attendance at all seminars
 - Completion of the casebook
 - Passing of the written evaluation tests throughout the semester
- Clinical internship evaluation:
- Oral presentation of the clinical case selected from the case file available in the Surgery Clinic
 - The correct execution of clinical maneuvers related to the objective examination technique with references to the selected case
 - Knowledge of normal and pathological levels of biological constants
 - Knowledge of the minimum instrumentation required for small surgical interventions
 - Correct interpretation of imaging
 - Thorough knowledge of surgical asepsis and antisepsis means
- For admission to the final evaluation:
- Attendance at 80% of the taught courses
 - Passing the practical oral exam
 - Passing the periodic tests during the semester
 - Passing the weekly seminars

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	25%
- Periodic checks with written exams	5%
- Continuous testing throughout the semester	5%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> - Written test – multiple choice test - Practical exam – oral presentation of a selected clinical case 	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Passing the clinical internship exam • Correct answers to 5 questions from the final written assessment or the partial exposition of the subjects of the course • Correct exposition but incomplete performance of clinical patient examination maneuvers • Correct description of the minimum surgical instruments required for a small surgical intervention, without being able to adapt the surgical kit to the specifics of the intervention • Approximate knowledge of diagnosis and therapeutic principles • Knowledge and approximate interpretation of biological constants and imaging 	<ul style="list-style-type: none"> • Passing the clinical internship exam with a minimum grade of 9 • Correct and complete answers to the questions in the final evaluation or the full exposition of the surgical topics • Correct presentation of the clinical case, with complete and correct differential diagnosis, appropriate and correctly presented treatment principles • Identification of all the components of the surgical kit, as well as the adaptation of the instruments to the specifics of the intervention • Thorough knowledge of biological constants and medical imaging data; correct interpretation • Thorough knowledge of the historical-surgical risk scales

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
Irinel Popescu, M.D., Ph. D., Professor	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
Irinel Popescu, M.D., Ph. D., Professor	Florin Botea, M.D., Ph. D., Lecturer Gabi Dincă, M.D., Ph. D., Lecturer Cristian Cîrlan, M.D., Ph. D. Candidate Mihai Tănase, M.D.

Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	NEPHROLOGY			
Didactic position, name and surname of the Discipline Coordinator	Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor			
Didactic position, name and surname for the Course Coordinator	Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor			
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor Smedescu Vasile, M.D., Ph. D. Candidate Ancuța Mihai, M.D., Ph. D. Candidate			
Discipline Code	MLE.5.9.2	Formative category of the discipline	SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits
4				

No. of Hours per week	5	Out of which are Course hours:	2	Seminar / Practical Activity / Clinical Stage	3
Total of hours in the curriculum	70	Out of which are Course hours:	28	Seminar / Practical Activity / Clinical Stage	42
		Total hours per semester	100	Total hours of individual study	30

Distribution of time pool per week		Hours
1. Study of the course material		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	3
3. Study of the minimal bibliography	3
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	0
7. Preparing for different written exams	2
8. Preparing for oral examinations	0
9. Preparing for the final examination	5
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	4
13. Tutoring	2
14. Examinations	0
15. Other activities:	0

Course name	NEPHROLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Knowledge and application of concepts related to nephrology • Ability to analyze and synthesize, organize and evaluate a clinical case from a nephrological point of view
Transversal competencies	<ul style="list-style-type: none"> • Performing clinical consults and paraclinical explorations in nephrology • Knowledge and application of treatment principles in nephrology • Evaluation of the state of health by population groups through screening and balance sheet exams • Monitoring population groups at risk and patients with chronic nephrological disorders • Knowledge of the principles of renal suppletion
General objectives of the discipline	<ul style="list-style-type: none"> • Acquisition of theoretical and practical knowledge regarding the specifics of nephrology • Knowledge of the legal framework that regulates the practice of a nephrologist • Knowledge of health status indicators, health promotion strategies
Specific objectives of the discipline	<ul style="list-style-type: none"> • Acquiring verbal and non-verbal communication skills regarding consultation in nephrological pathology • Knowledge of the medical services in nephrology • The use of theoretical knowledge in the diagnosis and treatment of nephrological disorders • Screening of nephrological conditions and development of an individual diagnostic plan

Course Syllabus	Hours
1. Anatomy, physiology and semiology.	2
2. Glomerular diseases.	2
3. Tubulointerstitial and vascular nephropathies.	2
4. Acute renovascular infectious pathology	2
5. Chronic renovascular infectious pathology	2

Course Syllabus	Hours
6. Renal lithiasis	2
7. Acute renal failure	2
8. Chronic kidney disease and renal suppletion therapies	2
9. Renal damage in systemic diseases (diabetes, high blood pressure)	2
10. Renal damage in autoimmune diseases	2
11. Acid-base balance disorders	2
12. Benign renovesical tumors	2
13. Malignant renovesical tumors	2
14. Renal damage in acute systemic intoxications	2

Laboratory Syllabus	Hours
1. Clinical and paraclinical examination in nephrology	3
2. Drafting of the monitoring form for patients with nephrological disease	3
3. Interdisciplinary consultations for patients with nephrological disease	3
4. Principles of treatment in nephrology	3
5. Treatment control and monitoring of patients with acute renal failure	3
6. Treatment control and monitoring of patients with chronic kidney disease	3
7. Treatment control and monitoring of patients with acid-base balance disorders	3
8. Renal puncture-biopsy applicability in medical practice	3
9. Treatment control and monitoring of patients with glomerular diseases	3
10. Evaluation of nephrological pathology associated with other systemic diseases	3
11. Principles of renovesical ultrasound	3
12. Performing intravenous urography	3
13. The principles of ESWL in the treatment of renal lithiasis	3
14. Remote monitoring of patients with chronic kidney disease	3

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
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How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive learning • multimedia projection of course support
Laboratory	<ul style="list-style-type: none"> • Interactive discussions • Clinical examination of patients • Case studies • Group projects

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

- Attendance at seminars or practical works
- Carrying out at least 5 clinical examinations and case presentations
- Monitoring of at least 5 patients with chronic kidney disease

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	25%
- Periodic checks with written exams	5%
- Continuous testing throughout the semester	5%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> - Written test – multiple choice test - Practical exam – oral presentation of a selected clinical case 	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Minimal knowledge of the taught notions 	<ul style="list-style-type: none"> • In-depth knowledge of all the taught notions

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor	Florentina Ioniță-Radu, M.D., Ph. D., Assoc. Professor
	Smedescu Vasile, M.D., Ph. D. Candidate
	Ancuța Mihai, M.D., Ph. D. Candidate
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	MEDICAL REHABILITATION				
Didactic position, name and surname of the Discipline Coordinator	DAN BLENDEA, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	DAN BLENDEA, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	DAN BLENDEA, M.D., Ph. D., Lecturer				
Discipline Code	MLE.5.9.3	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			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		9

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	7
3. Study of the minimal bibliography	6
4. Additional documentation in the library	4
5. Specific activity for the seminary or laboratory	10
6. Homework, translations, etc.	0
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
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	0
14. Examinations	0
15. Other activities:	0

Course name	MEDICAL REHABILITATION
Specific professional competencies	<ul style="list-style-type: none"> • Diagnosis and treatment of patients with medical recovery pathology
Transversal competencies	<ul style="list-style-type: none"> • Development of skills in establishing the diagnosis and therapeutic strategy for patients with locomotor system deficits • Ability to make decisions • Learning autonomy • Use of technology and information
General objectives of the discipline	<ul style="list-style-type: none"> • Ability to understand, analyze and synthesize specialized information • Ability to evaluate and self-evaluate • Ability to organize and work in a team • Development of professional ethical sense
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identification of patients with recovery pathology • Selection of specific and maximum effective therapies from those available

Course Syllabus	Hours
<p>Topic 1. The possibilities and limits of the medical specialty Recovery, Physical Medicine and Balneology in current medical assistance</p> <ul style="list-style-type: none"> • the definition and history of the specialty • the place and role of physical factors in prophylaxis, treatment and functional (medical) recovery in practical medicine • prophylaxis and curative treatment through physical factors: recuperative treatment through physical factors and movement in: early recovery stage, late recovery stage • orientation in the prescription of physical treatment • balneal triage • general contraindications of treatment with physical factors 	2
<p>Topic 2. Physical factors and the treatment and functional recovery methodology</p> <ul style="list-style-type: none"> • Balneology; Balneoclimatotherapy 	8

Course Syllabus	Hours
<ul style="list-style-type: none"> - Climate and weather, the physical factors that define them: the climate and climatic sectors of Romania, bioclimate and types of bioclimate in Romania, aerotherapy, heliotherapy, field cure in medical practice - Mineral waters: definition, classification, origin of mineral waters, physiological and therapeutic effects of mineral waters in external cure, internal cure, other types of application - Therapeutic muds or peloids: definition, classification, the origin of the sludge, the physiological and therapeutic effects, the methodology of applying the sludge - Therapeutic natural gases, definition, classification, mofetta • Physical medicine or physiotherapy <ul style="list-style-type: none"> - Hydrothermotherapy: physical properties of water, physiological properties of skin and mucous membranes, physical factors involved in therapy, physiological and therapeutic effects of hydrotherapy, therapeutic indications - Electrotherapy: definition, classification, the physiological bases of the actions of the electric current, the physiological and therapeutic effects of different types of electric current, actinotherapy, the application of the magnetic field - Movement therapy: definition, classification, kinetotherapy, massotherapy, pneumatotherapy 	
<p>Topic 3. Pathology of the locomotor apparatus</p> <ul style="list-style-type: none"> • Rheumatoid polyarthritis: -etiopathogenesis, -pathological anatomy, -physiopathology, -therapeutic goals, -therapeutic means and methods of functional recovery • Seronegative spondyloarthropathies: -etiopathogenesis, -pathological anatomy, -physiopathology, -therapeutic goals, -therapeutic means and methods and functional recovery • Degenerative rheumatism: -etiopathogenesis, -pathological anatomy, -physiopathology, -therapeutic goals, -therapeutic means and methods of functional recovery • Abarticular rheumatism <ul style="list-style-type: none"> - Scapulohumeral periartthritis - Myofascial syndrome - Fibromyalgia <p>Etiopathogenesis, pathological anatomy, physiopathology, therapeutic objectives, therapeutic means and methods and functional recovery</p>	4
<p>Topic 4. Affections of the spine</p> <ul style="list-style-type: none"> • Kyphoscoliosis • Acute torticollis • Vertebral discopathy • Spinal canal stenosis • Spondylolisthesis <p>Etiopathogenesis, pathological anatomy, physiopathology, therapeutic objectives, therapeutic means and methods and functional recovery</p>	4
<p>Topic 5. Orthopedic – surgical diseases of the limbs</p> <ul style="list-style-type: none"> • Cutaneous, muscular, nervous sequelae of fractures • Algoneurodystrophy • Femur fracture • Tibial plateau fracture • Humerus fracture • Radio-ulnar fracture 	4

Course Syllabus	Hours
Etiopathogenesis, pathological anatomy, physiopathology, therapeutic objectives, therapeutic means and methods and functional recovery	
Topic 6. Neurological recovery <ul style="list-style-type: none"> • STROKE Sequelae • Vertebro-medullary injuries Etiopathogenesis, pathological anatomy, physiopathology, therapeutic objectives, therapeutic means and methods and functional recovery	4
Topic 7. Recovery of cardiovascular diseases: <ul style="list-style-type: none"> • BCI • Chronic peripheral vasculopathies Etiopathogenesis, pathological anatomy, physiopathology, therapeutic objectives, therapeutic means and methods and functional recovery	2

Laboratory Syllabus	Hours
1. Electrotherapy	2
2. Electrotherapy	2
3. Hydrothermotherapy	2
4. Hydrothermotherapy	2
5. Kinetotherapy	2
6. Kinetotherapy	2
7. Masotherapy	2
8. Masotherapy	2
9. Articular balance sheet	2
10. Articular balance sheet	2
11. Coordination of balance and sensitivity	2
12. Occupational therapy	2
13. Respiratory therapy techniques	2
14. Respiratory therapy techniques	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
- The theoretical and practical notions exposed in the classes and practical works correspond to the requirements of the Romanian and European education system and aim to integrate into a responsible professional environment, developing the future doctor's ability to provide clinical assistance. These notions correspond to the expectations of representatives of the epistemic community, professional associations and representative employers in the health sector.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Presentation of the course

How the information is transmitted	
	<ul style="list-style-type: none"> • Interactive, with modern means • Video projector • Course support in PPT
Laboratory	<ul style="list-style-type: none"> • Presentation of the laboratory topic. • Discussions on the topic and cases. • Practical performance, under guidance, of the procedures in the treatment base.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> • Practical or oral exam • Theoretical and practical knowledge of the technique of a session of: electrotherapy, hydrothermotherapy, masotherapy, physical therapy, pneumatotherapy

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	50%
- Responses to the laboratory examination	25%
- Periodic checks with written exams	15%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities:	0%

Description of the actual methods of examination – E	
- Written test – multiple choice test	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Minimum 50% correct answers 	<ul style="list-style-type: none"> • Minimum 90% correct answers

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
DAN BLENDEA, M.D., Ph. D., Lecturer	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
DAN BLENDEA, M.D., Ph. D., Lecturer	DAN BLENDEA, M.D., Ph. D., Lecturer

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY				
Didactic position, name and surname of the Discipline Coordinator	Stana Dan Mihail, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	Stana Dan Mihail, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Stana Dan Mihail, M.D., Ph. D., Lecturer				
Discipline Code	MLE.5.9.4	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			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				1

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	1
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	4
6. Homework, translations, etc.	2
7. Preparing for different written exams	2
8. Preparing for oral examinations	2
9. Preparing for the final examination	4
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	10
14. Examinations	4
15. Other activities:	4

Course name	PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> Identifying the disease state and establishing the correct diagnosis. Conception and application of a therapeutic plan appropriate to the condition(s) identified. The correct assessment of the risk of illness or the context of the occurrence of an individual / collective illness followed by the choice and application of appropriate prophylaxis measures. Surgical indication(s). To perform care maneuvers specific to the discipline.
Transversal competencies	<ul style="list-style-type: none"> Identification of the objectives to be achieved, the available resources, the conditions for their completion, the work stages, working times, related completion deadlines and related risks. Identification of roles and responsibilities in a multidisciplinary team and the application of communication techniques and effective work within the team and in relation to the patient To know how to communicate with the patient and his relatives
General objectives of the discipline	<ul style="list-style-type: none"> Knowledge of the main related conditions _ with surgery plastic , aesthetic and with microsurgery reconstruction Establishing a correct diagnosis as well as the surgical procedural indication
Specific objectives of the discipline	<ul style="list-style-type: none"> Students will know how to examine patients, interpret paraclinical and imaging examinations To provide first aid in case of trauma within the scope of the discipline

Course Syllabus	Hours
<p>COURSE 1. Definition and history of Plastic Surgery:</p> <ul style="list-style-type: none"> Plastic surgery with free skin transplants Skin grafts with pedicled flaps Local skin grafts The theory of intersecting triangular flaps Homografts, heterografts, allografts (biology, indications for clinical use) 	2

Course Syllabus	Hours
<ul style="list-style-type: none"> • Transplantation of bone, cartilage, tendon and fat (biology, therapeutic indications, methods, results) 	
<p>COURSE 2. Principles and basic techniques in CP</p> <ul style="list-style-type: none"> • Fasciocutaneous flaps • Musculocutaneous flaps (history, anatomical distribution, indications, principles, results) • Free tissue transfer • Expanding the teguments 	2
<p>COURSE 3. Burns and frostbite - part 1</p> <ul style="list-style-type: none"> • Definition. Classification. Clinical aspects. Therapeutic conduct. • Local burn injury • Hydro-electrolytic resuscitation • Local and surgical treatment in burns (indications, methods, results, complications) • Post-burn sequelae (prophylaxis and therapeutic behavior) 	2
<p>COURSE 4. Burns and frostbite - part 2</p> <ul style="list-style-type: none"> • Thermal burn (physiopathology, clinic, treatment) • Chemical burn (physiopathology, clinic, treatment) • Electrocutation burn (physiopathology, clinic, treatment) • Tissue culture of skin (results, biology, clinic) 	
<p>COURSE 5. Elements of hand surgery – part 1</p> <ul style="list-style-type: none"> • Posttraumatic sequelae of the hand (physiopathology, clinic and treatment) • Post-burn sequelae of the hand (physiopathology, clinic and treatment) • Dupuytren's disease (etiopathology, clinic, indications and therapeutic methods) 	2
<p>COURSE 6. Elements of hand surgery – part 2</p> <ul style="list-style-type: none"> • Volkmann's disease (etiopathology, clinic, indications and therapeutic methods) • Congenital malformations of the extremities - general notions • Surgery of limb malformations • Panaritium and phlegmons of the hand 	
<p>COURSE 7. Reconstructive microsurgery - part 1</p> <ul style="list-style-type: none"> • The concept of reconstructive microsurgery • Basic techniques in microsurgery • Vascular reconstructive microsurgery • Reconstructive microsurgery of peripheral nerves, brachial plexus 	2
<p>COURSE 8. Reconstructive microsurgery - part 2</p> <ul style="list-style-type: none"> • Replantation, revascularization • Free transfer of composite tissues • Experimental microsurgery 	
<p>COURSE 9. Elements of skin and soft tissue oncology – part 1</p> <ul style="list-style-type: none"> • Hemangiomas • Lymphangiomas • Precancerous dermatoses 	2
<p>COURSE 10. Elements of skin and soft tissue oncology - part 2</p> <ul style="list-style-type: none"> • Basal cell carcinomas • Squamous cell carcinomas • Malignant melanoma • Other skin neoplasms 	
<p>COURSE 11. Scarring. Craniofacial pathology - part 1</p> <ul style="list-style-type: none"> • Normal and pathological scarring 	2

Course Syllabus	Hours
<ul style="list-style-type: none"> • Face and head trauma (physiopathology, clinic, therapeutic conduct) 	
COURSE 12. Scarring. Craniofacial pathology - part 2 <ul style="list-style-type: none"> • Congenital craniofacial malformations (labio-velo-palatine fissures) • Scarring sequelae of the face (physiopathology, clinic, treatment) 	
COURSE 13. Extensive acute infections of the skin and underlying tissues (clinic, diagnosis, treatment) <ul style="list-style-type: none"> • Localized infections: warm abscess, folliculitis, furuncle, anthracoid furuncle, hidradenitis, acute lymphangitis, acute lymphadenitis, adenophlegmon • Diffuse and toxic infections: cellulitis, phlegmon, gas gangrene • Non-clostridial crepitant cellulitis, necrotizing fasciitis, synergistic gangrene 	2
COURSE 14. Management of chronic wounds. Breast and abdominal wall reconstruction <ul style="list-style-type: none"> • Surgical treatment of pressure ulcers • Surgery of the abdominal wall - wall reconstruction in hernias, eviscerations • Breast reconstruction after mastectomy 	

Laboratory Syllabus	Hours
1. Patient's clinical examination: upper and lower extremities, hand, local clinical examination.	2
2. Clinical examination of: cutaneous tumors, soft tissue tumors. Paraclinical exploration of: Rx, Ultrasound, CT, MRI, Electrical investigations, Screening tests.	2
3. Operative indication. Postoperative monitoring: drainage, CK, diuresis, monitoring revascularization, monitoring flaps.	2
4. Postoperative medication, discharge recommendations, immobilization and dressings in plastic surgery, postoperative controls, adjunctive treatments, electrostimulation and kinetotherapeutic recovery.	2
5. Surgical instruments. Anesthesia in plastic surgery. Surgical excision.	2
6. Haemostasis. Types of suture and suture materials. Principle of postponed urgency. Bite wounds.	2
7. Extension tendons tenorrhaphy. Carpal tunnel's surgical cure. Subtotal aponeurectomy in Dupuytren's disease. Hand infections.	2
8. Skin grafts: Z-type surgeries, local flaps, nasolabial flap, frontal flap, Italian style pediculate surgeries.	2
9. Compartment syndrome. Volkman syndrome. Fasciectomy. Cicatricial sequelae. Tissue expansion. Diabetic foot.	2
10. Gastrocnemius flap. Sural flap. Latissimus flap. Breast reconstruction.	2
11. Neurorrhaphy. Neurorrhaphy with indirect coaptation. Radial artery arteriorrhaphy. Revascularization and replantation. Experimental microsurgery.	2
12. Freely microscurgically transferred flap: radial flap, fibular flap, latissimus flap, deep inferior epigastric perforator (DIEP) flap, anterolateral thigh (ALT) flap, surgical monitoring.	2
13. Excision within oncological limits. Lower lip reconstruction. Parotidectomies.	2
14. Cervical lymphadenectomies. Reconstructions of the face and tongue with freely microscurgically transferred flaps. Facial nerve palsy. Smile reconstruction.	2

Minimum References:
1.
2.
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Minimum References:

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Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

1. The future practical activity of the doctor is based not only on theoretical and practical knowledge, but also on skills, competences and patience, which are acquired through study and practice in specialized offices.
2. Case studies and case presentations, practical demonstrations confer professionalism and responsibility at future workplaces.

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive learning; multimedia projection of course support
Laboratory	<ul style="list-style-type: none"> • Interactive discussions • Training courses in the clinic • Presentation of methodological elements • Group discussions, exercise, case analysis, demonstrations, diagnostic and treatment algorithms, case presentations

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

- Attendance at 80% of the taught courses;
- Promotion of periodic tests during the semester.

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	20%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	5%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%

Description of the actual methods of examination – E

- Multiple-choice test.

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Promotion of the practical exam • Promotion of control works • Knowledge of the basic notions of plastic surgery, aesthetics and reconstructive microsurgery (at least 10 correct answers at the multiple-choice test of 20 questions) 	<ul style="list-style-type: none"> • In-depth knowledge of the notions of plastic surgery, aesthetics and reconstructive microsurgery (at least 18 correct answers to the multiple-choice test grid test out of 20 questions)

Date of completion

22.09.2021

Discipline Coordinator,

Stana Dan Mihail, M.D., Ph. D., Lecturer

Head of Department,

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

Course Coordinator,

Stana Dan Mihail, M.D., Ph. D., Lecturer

Laboratory Coordinator,

Stana Dan Mihail, M.D., Ph. D., Lecturer

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	MINIMALLY INVASIVE SURGERY				
Didactic position, name and surname of the Discipline Coordinator	Ulmeanu Dan Ioan, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Course Coordinator	Ulmeanu Dan Ioan, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Ulmeanu Dan Ioan, M.D., Ph. D., Assoc. Professor				
Discipline Code	MLE.5.9.5	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

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

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	5
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5
5. Specific activity for the seminary or laboratory	3
6. Homework, translations, etc.	3
7. Preparing for different written exams	3
8. Preparing for oral examinations	5
9. Preparing for the final examination	4
10. Consultations	3
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	4
13. Tutoring	0
14. Examinations	4
15. Other activities:	0

Course name	MINIMALLY INVASIVE SURGERY
Specific professional competencies	<ul style="list-style-type: none"> Acquiring the notions of preoperative preparation and postoperative follow-up of the surgical patient, as well as knowing the basic principles of surgical treatment by means of minimally invasive treatment. The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibilities to adapt to teamwork.
Transversal competencies	<ul style="list-style-type: none"> Effective use of communication resources and assisted professional training (internal portals, specific applications, databases, online applications) both in Romanian and in an international language. Acquiring teamwork skills, oral and written communication, use of information technology, availability for autonomous learning and openness to lifelong learning, respecting and developing professional ethics.
General objectives of the discipline	<ul style="list-style-type: none"> Deepening the knowledge related to minimally invasive surgery: indications and contraindications, limitations, incidents and accidents.
Specific objectives of the discipline	<ul style="list-style-type: none"> Correct identification of the instruments specific to minimally invasive surgery. Correct acquisition of the way of operation of the instruments used in laparoscopic surgery. Proper identification of the specific components of the equipment of laparoscopic surgery units.

Course Syllabus	Hours
Course 1: History and evolution of minimally invasive surgery.	2
Course 2: Equipment and devices used in minimally invasive surgery.	2
Course 3: Minimally invasive approach to esophageal pathology (diverticula, tumors, caustic lesions, and traumatology).	2

Course Syllabus	Hours
Course 4: Minimally invasive approach to the esogastric junction (hiatal hernias, achalasia of the cardia, tumor pathology).	2
Course 5: The minimally invasive approach in pulmonary pathology.	2
Course 6: The minimally invasive approach in the pathology of the hepatobiliary tree (lithiasis and non-lithiasis pathology, iatrogenic lesions).	2
Course 7: The minimally invasive approach in liver pathology (hepatic hydatid cyst, liver abscesses, hemangiomas, etc.).	2
Course 8: The minimally invasive approach in pancreatic pathology (pancreatic cysts and pseudo-cysts, tumors).	2
Course 9: The minimally invasive approach in the pathology of the small intestine and the ileocecal appendix (gastro-intestinal stromal tumors, intussusceptions, diverticula).	2
Course 10: The minimally invasive approach in colorectal pathology.	2
Course 11: The minimally invasive approach in benign genital pathology (adnexal cystic formations, uterine fibroids).	2
Course 12: The minimally invasive approach in the pathology of the retroperitoneal space.	2
Course 13: The minimally invasive approach to abdominal parietal defects.	2
Course 14: The minimally invasive approach in metabolic surgery.	2

Laboratory Syllabus	Hours
1. The specific instruments for minimally invasive surgery	2
2. Equipment specific to minimally invasive surgery	2
3. Notions of electro-surgery in minimally invasive interventions – monopolar, bipolar current, advanced vascular electrosealing	2
4. Types of sutures used in minimally invasive interventions	2
5. Hemostasis in minimally invasive surgery	2
6. SILS approach technique	2
7. Approach technique in robotic surgery	2
8. Intraoperative cholangiography – performance technique, indications and contraindications, limitations	2
9. Videocholedochoscopy - performance technique, indications and contraindications, limitations	2
10. ERCP technique - indications and contraindications, limitations	2
11. Thoracoscopy	2
12. Stapling techniques in minimally invasive surgery	2
13. Techniques of stapling and assembly of synthetic materials for alloplastic prosthetics	2
14. GEPA mounting technique	2

Minimum References:
1.
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Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

All the topics taught in the course and practical internships are presented in the didactic and scientific materials of the discipline, monographs, guides, courses, in which the latest data from the national and international specialized literature are taken, corresponding to the maximum expectations of the representatives of the epistemic community, professional associations and representative employers in the field of health in the country. Most of the presented themes correspond to the scientific content required by the bibliography of the national residency competition.

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • 2 hours interactive course with; multimedia projection of course support • Drawings of flipchart and white-board
Laboratory	<ul style="list-style-type: none"> • Practicing in the patient and surgical dressing rooms of the general surgery department of examination methods, presentation of clinical cases with emphasis on specific lesions and treatment methods, acquisition of patient care techniques and basic therapeutic notions and principles of surgical procedures. • Teaching and explaining the notions from the practical work guides, observing the surgical interventions transmitted directly from the operating theatres through the video system integrated in the scialityc lamps, daily recording of the cases presented in the internship casebook, periodic evaluations in the form of weekly seminars and semester test.

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

- For admission in the practical internship exam:
- Complete restoration of absences during the clinical internship
 - Student attendance at all seminars
 - Completion of the casebook
 - Passing of the written evaluation tests throughout the semester
- Clinical internship evaluation:
- Oral presentation of the clinical case selected from the case file available in the Surgery Clinic
 - The correct execution of clinical maneuvers related to the objective examination technique with references to the selected case
 - Knowledge of normal and pathological levels of biological constants
 - Knowledge of the minimum instrumentation required for small surgical interventions
 - Correct interpretation of imaging
 - Thorough knowledge of surgical asepsis and antisepsis means
- For admission to the final evaluation:
- Attendance at 80% of the taught courses
 - Passing the practical oral exam
 - Passing the periodic tests during the semester
 - Passing the weekly seminars

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	50%
- Responses to the laboratory examination	20%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	10%
- Other activities:	0%
Description of the actual methods of examination – E	
- Descriptive test	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Promotion of the clinical internship exam • Correct answer to 5 questions from the final written assessment • Correct exposure but incomplete performance of laparoscopic suturing maneuvers • Correct description of the surgical instruments used in minimally invasive interventions in general and thoracic surgery; 	<ul style="list-style-type: none"> • Passing the clinical internship exam with a minimum grade of 9 • Correct and complete answer to the questions in the final evaluation or the full exposition of the surgical topics • Identification of all the components of the surgical kit as well as the adaptation of the instruments to the specifics of the minimally invasive intervention presented for evaluation.

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	RADIOLOGY AND MEDICAL IMAGING				
Didactic position, name and surname of the Discipline Coordinator	FLORIN DRĂGHIA , M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Course Coordinator	FLORIN DRĂGHIA , M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	FLORIN DRĂGHIA , M.D., Ph. D., Assoc. Professor ANCA BULIMAN, M.D., Ph. D., Lecturer				
Discipline Code	MLE.5.9.6	Formative category of the discipline		DS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			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		5

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	0
4. Additional documentation in the library	0
5. Specific activity for the seminary or laboratory	10
6. Homework, translations, etc.	0
7. Preparing for different written exams	0
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	6
13. Tutoring	3
14. Examinations	0
15. Other activities:	0

Course name	RADIOLOGY AND MEDICAL IMAGING
Specific professional competencies	<ul style="list-style-type: none"> The methods of modern radiological investigation and imaging, the advantages and disadvantages of their use depending on the devices and systems studied, as well as depending on their invasiveness. Knowing and understanding the main types of imaging and radiological investigations, and their correct association in general pathology depending on the quality, quantity and importance of the data and knowledge they bring. The detailed study of the main pathologies from an imaging and radiological point of view, grouped by devices and systems, through object-oriented discussions on radiography or other normal or pathological radio imaging investigations, projected on a video projector.
Transversal competencies	<ul style="list-style-type: none"> Radiology and medical imaging is used in the diagnosis of all branches of pathology, having a transdisciplinary nature, which requires multiple skills, such as: using the latest technology, taking over and processing a large amount of information, correctly and in a short time, with making important decisions quickly. It requires working in a team, with many general or specialist doctors, for the diagnosis and monitoring of patients from all specialties, which is why medical knowledge must be vast, clear, and reliable.
General objectives of the discipline	<ul style="list-style-type: none"> Knowing radio-imaging techniques, notions of radiological anatomy and sectional anatomy as well as radio-imaging semiological aspects. Acquiring knowledge related to radio-imaging diagnostic methods specific to each individual device.
Specific objectives of the discipline	<ul style="list-style-type: none"> Knowledge of all imaging or radiological branches, the purpose for which they were created, the advantages and disadvantages of each depending on the patient's pathology, their interventional nature, the radiation dose received by the human body / the medical benefit of the investigation.

- The correct choice for the imaging investigation used in relation to the pathology and medical-imaging indications or contraindications

Course Syllabus	Hours
1. Introductory course	2
2. Current imaging techniques: radiology, conventional radiography, computed tomography, magnetic resonance imaging, scintigraphy Roentgen radiation: method of production, properties, image formation, biological effects, protection	2
3. Radiology of the respiratory system: examination methods (analysis of chest X-rays)	2
4. Acute pneumopathies: typical pneumonia, bronchopneumonia, atypical pneumonias, interstitial pneumonia, pulmonary suppurations, bronchiectasis	2
5. Pulmonary tuberculosis : primary / secondary	2
6. Bronchopulmonary tumors	2
7. Mediastinal tumors	2
8. Radiology of the heart and large vessels: the arches of the heart, the heart in valvular diseases, heart failure, cardiac capacity, normal and pathological pulmonary circulation, pericardial pathologies	2
9. Normal and pathological imaging of the esophagus: examination, dilations, benign and malignant stenoses, esophageal varices, esophageal surgery, esophageal foreign bodies	2
10. Hiatal hernias / reflux esophagitis, radiologically normal stomach: examination, changes in position	2
11. Gastro-duodenal ulcer. Gastric cancer	2
12. Imaging of the duodenum, pancreas and biliary system. Imaging of the small intestine and colon	2
13. Urinary system : simple kidney radiography, urography, elementary changes, lithiasis disease, tumoral pathologies	2
14. Imaging diagnosis of osteoarticular pathology	2

Laboratory Syllabus	Hours
1. X-ray / anatomy of the chest / pleura / lungs	2
2. Thoraco-pleural pathology	2
3. Pulmonary pathology	2
4. Mediastinal pathology: inflammatory diseases, adenopathies, tumors	2
5. Heart - classic radiography, angiography, endovascular treatment	2
6. 1st Test	2
7. Radioanatomy of the abdomen and pelvis	2
8. Liver / spleen – X-ray, echography, CT, MRI, angiography. Tumor hemolysis, liver tumor cryogenesis	2
9. Bile ducts / pancreas	2
10. Kidney	2
11. Intestines, colic frame, adenopathies	2
12. Invasive imaging. Endovascular imaging	2
13. 2nd Test	2
14. EXAM	2

Minimum References:
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Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - The acquisition of theoretical and practical notions within the course and practical works allow integration in a responsible professional environment, the ability to interpret the results regardless of the specialty that will be practiced (later) and a good interdisciplinary collaboration.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Main course based on the video projection (power point) of the course support, accompanied by discussions and comments on the images of special or known pathologies studied in other disciplines.
Laboratory	<ul style="list-style-type: none"> • Free discussions based on projected radiological and imaging examples (video projector) corresponding to the laboratory theme, but also related to discussions held in the course or other seminars.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> •

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	10%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities: Attendance at class	10%

Description of the actual methods of examination – E	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> - Written paper (test with short questions after power point projection, time limited.) 	
<ul style="list-style-type: none"> • 50%+1 of the number of questions on the exam 	<ul style="list-style-type: none"> • over 80% correct answers, permanent and sustained activity in the discussions at the course and seminars, very good attendance at the course and seminars, appreciable general medical knowledge.

Date of completion

22.09.2021

Discipline Coordinator,

**FLORIN DRĂGHIA , M.D., Ph. D., Assoc.
Professor**

Course Coordinator,

**FLORIN DRĂGHIA , M.D., Ph. D., Assoc.
Professor**

Department approval date

30.09.2021

Head of Department,

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

Laboratory Coordinator,

**FLORIN DRĂGHIA , M.D., Ph. D., Assoc.
Professor
ANCA BULIMAN, M.D., Ph. D., Lecturer**



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	NEUROSURGERY				
Didactic position, name and surname of the Discipline Coordinator	MARIAN MITRICĂ, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	MARIAN MITRICĂ, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	MARIAN MITRICĂ, M.D., Ph. D.				
Discipline Code	MLE.5.9.7	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

No. of Hours per week	3	Out of which are Course hours:	2	Seminar / Practical Activity / Clinical Stage	1
Total of hours in the curriculum	42	Out of which are Course hours:	28	Seminar / Practical Activity / Clinical Stage	14
		Total hours per semester	75	Total hours of individual study	33

Distribution of time pool per week					Hours
1. Study of the course material					4

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	5
3. Study of the minimal bibliography	3
4. Additional documentation in the library	0
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	1
9. Preparing for the final examination	3
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	NEUROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> Obtaining the ability to orientate the diagnosis in neurosurgical conditions and knowledge of therapeutic and prophylactic intervention measures.
Transversal competencies	<ul style="list-style-type: none"> Acquiring the skills to work in a multidisciplinary team ; Acquiring intercollegiate communication skills, doctor-patient, doctor-nurse; The use of information and communication technology, Decision-making in emergency medical situations, The perpetuation of the student status during the entire professional life, in the sense of permanent concern for knowledge, improvement, self-improvement; Respect and development of professional and university values and ethics; Acquiring the principles of professional and academic correctness.
General objectives of the discipline	<ul style="list-style-type: none"> Understanding the anatomical, physiological and pathophysiological bases of neurosurgical conditions, prophylaxis and treatment measures.
Specific objectives of the discipline	<ul style="list-style-type: none"> The acquisition by students of the general notions of anatomy of the nervous system. The importance of the medical history in neurosurgical conditions and knowledge of the main stages of the neurosurgical examination. Recognition of the main neurosurgical conditions, emergency management and the importance of interdisciplinarity and teamwork. Secondary prophylaxis and lifestyle modification to prevent disc herniation. Awareness of the psychosocial impact of neurosurgical diseases.

Course Syllabus	Hours
1. Neurological and neurosurgical evaluation and examination. Notions of neuroradiology.	2
2. Neurosurgical investigations	2
3. Increased intracranial pressure and hydrocephalus	2
4. Cranio-cerebral trauma	3
5. Malignant brain tumors	3
6. Secondary malignant tumors (brain and spinal metastases)	3
7. Benign brain tumors	3
8. Pituitary and cerebellopontine angle tumors.	3
9. Subarachnoid hemorrhages	2
10. Developmental abnormalities of the skull and spinal cord	2
11. Cerebral and spinal neuroinfections	3

Laboratory Syllabus	Hours
1. Medical history taking in neurosurgery	2
2. Clinical and paraclinical investigations in neurosurgery	2
3. Neurosurgical clinical examination	2
4. Introduction to the operating room	2
5. Diagnosis and treatment in disc herniation	2
6. Neurosurgical emergencies	2
7. Introduction to brain tumors and treatment	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
- Neurosurgery is a synthesis of surgical conditions, because any of them can cause complications. Thus, the graduate, whether he remains a general practitioner or specializes in any other specialty, encounters primary or secondary neurosurgical conditions caused by other diseases.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Interactive course face-to-face with students. The exposition of the information is oral assisted by the presentation in electronic PPT format.
Laboratory	<ul style="list-style-type: none"> Clinical activities are carried out in the hospital at the patient's bedside. Case presentations, discussions, arguments. Educational support through oral PowerPoint presentations. Sketches and drawings on Flipchart.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> Patient medical history

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

- The motility test
- The sensitivity test
- Recognizing the signs of a herniated disc
- Establishing the diagnosis
- Examination of the patient in the emergency unit

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

Description of the actual methods of examination – E

- Written grid-type exam with one correct answer (50 questions)

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Knowing some general notions about the subject, lacking in details. • Obtaining an average above 7grade in the practical works. • Attendance at 50% of classes 	<ul style="list-style-type: none"> • Accurate presentation of the subject required for examination. • Grades above 8 in all written examinations and practical works. • Attendance at over 70% of the courses

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
MARIAN MITRICĂ, M.D., Ph. D.	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
MARIAN MITRICĂ, M.D., Ph. D.	MARIAN MITRICĂ, M.D., Ph. D.
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	ORAL AND MAXILLOFACIAL SURGERY				
Didactic position, name and surname of the Discipline Coordinator	ANA CĂRUNTU , M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	ANA CĂRUNTU , M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	ANA CĂRUNTU , M.D., Ph. D.				
Discipline Code	MLE.5.9.8	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	E9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	-
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	-
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week					Hours
1. Study of the course material					6

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	4
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	2
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	4
13. Tutoring	0
14. Examinations	2
15. Other activities:	0

Course name	ORAL AND MAXILLOFACIAL SURGERY
Specific professional competencies	<p>Abilities acquired by the student:</p> <ul style="list-style-type: none"> • Correctly interpret the clinical signs and symptoms and laboratory results necessary to establish a presumptive diagnosis specific to OMF surgical pathology • Correctly establish a precise diagnosis for OMF surgical pathology • Correctly specify the therapeutic directions for OMF surgical pathology • Correctly identify the stages of surgical treatment
Transversal competencies	<ul style="list-style-type: none"> • Identification of the objectives to be achieved, the available resources, the conditions for their completion, work stages, working times, related risks. Identification of roles and responsibilities in a multidisciplinary team and the application of communication techniques and effective work within the team and in relation to the patient. Effective use of communication resources and assisted professional training.
General objectives of the discipline	<ul style="list-style-type: none"> • Familiarizing students with OMF pathology in order to be able to place a presumptive diagnosis • Knowledge of the specific surgical therapies for OMF patients
Specific objectives of the discipline	<p>Determination of the means of establishing the diagnosis of OMF surgical conditions, in their etiopathogenic context</p> <ul style="list-style-type: none"> • Establishing surgical treatment methods imposed by different situations • Knowledge of current surgical therapeutic approach techniques, basic diagnostic procedures, requesting appropriate complementary examinations, formulating a positive and differential diagnosis.

Course Syllabus	Hours
1. Odontogenic sinusitis	1
2. Oro-sinus communication	1

Course Syllabus	Hours
3. Management of the patient with associated cardiovascular pathology	1
4. Therapeutic sequences in oral and maxillofacial trauma	1
5. Evaluation of the polytraumatized patient	1
6. Chronic adenitis	1
7. Diffuse oral and maxillofacial suppurations: oral floor phlegmon and hemifacial phlegmon	1
8. Osteonecrosis of the jaws induced by anti-osteoclastic therapies (ARONJ)	1
9. Early diagnosis of cancer in the oral cavity	1
10. Prognostic factors in the evolution of patients with neoplasms of the oral cavity	1
11. Skin cancer: diagnosis and treatment	1
12. Acute parotitis: diagnosis and treatment	1
13. Salivary gland tumors	1
14. Salivary gland lithiasis	1

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
- Correct examination of patients with various diseases in the oral and maxillofacial sphere, making a presumptive diagnosis and recommending complementary examinations, as well as referring patients to the Oral and Maxillofacial Surgery service.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> The course support, oral presentation, electronic support (Power Point presentations), demonstrations, clinical case files.
Laboratory	<ul style="list-style-type: none"> Case presentation, hospital internships, inpatient assessment, and examination.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> Carrying out the medical history, the complete and correct clinical examination, as well as some basic diagnostic procedures, requesting and interpreting the appropriate complementary examinations, formulating a positive and differential diagnosis. Creating an individualized therapeutic plan and performing basic therapeutic procedures

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	70%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	15%
- Continuous testing throughout the semester	15%
- Projects / Translations / Posters / Essays, etc.	0%

- Other activities:	0%
Description of the actual methods of examination – E	
- Written exam with essay topics	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Correct completion of some subjects in the final exam, at least 50% (minimum scale). • Correct use of specific terms and notions 	<ul style="list-style-type: none"> • Correct completion of all requirements from the final exam.

Date of completion	
22.10.2021	
Discipline Coordinator,	Head of Department,
ANA CĂRUNTU , M.D., Ph. D.	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
ANA CĂRUNTU , M.D., Ph. D.	ANA CĂRUNTU , M.D., Ph. D.
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	SCIENTIFIC RESEARCH METHODOLOGY				
Didactic position, name and surname of the Discipline Coordinator	LUCIAN FLORIN DOROBANȚU, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	LUCIAN FLORIN DOROBANȚU, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.5.9.9	Formative category of the discipline		DS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	V9
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	-
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	-
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week					Hours
1. Study of the course material					5

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	5
3. Study of the minimal bibliography	5
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	3
7. Preparing for different written exams	2
8. Preparing for oral examinations	0
9. Preparing for the final examination	0
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	2
14. Examinations	0
15. Other activities: Elaboration of the Implementation Plan	3
Elaboration of the GANTT Chart	2

Course name	MEDICAL SCIENTIFIC RESEARCH METHODOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • The formation and development of the basis of scientific research methodology and the management of research projects; • Training and development of skills and abilities regarding the methodological concept, the project concept and the management concept; • Acquiring knowledge about the methodology of scientific research in Romania and the European Community • Acquiring knowledge about the methods of creating, writing and distributing a scientific work • Advanced knowledge in the field; • The ability to identify, formulate and solve research problems; • Mastery of advanced research methods and techniques; • Knowledge regarding the management of research projects; • Mastering new procedures and solutions in research; • Documentation skills, elaboration and valorization of scientific works; • Linguistic skills at an academic level in languages of international circulation necessary for the documentation and elaboration of scientific papers; • Understanding and ability to apply the principles and values of scientific research ethics in the respective field.

Transversal competencies	<ul style="list-style-type: none"> • Appropriation of the current organization and research units in Romania. • Knowledge of the main international guidelines for the regulation of good ethical conduct and methodology in scientific research • Communication skills, written and oral, in the field of science and culture; • Advanced linguistic skills in languages of international circulation; • The use of information and communication technology; • Interpersonal and teamwork skills; • Knowledge of human, material and financial resource management; • Leadership qualities; • Knowledge of career management, as well as the acquisition of techniques for searching for a job and creating jobs for others; • Knowledge of risk, crisis and failure management; • Knowledge regarding the use of legislation in the field of intellectual property rights; • Economic, technological and social entrepreneurship capacities.
General objectives of the discipline	<ul style="list-style-type: none"> • Presentation of aspects related to the methodology of scientific research specific to medicine • Knowledge of the rules that regulate research in biomedicine. • Identification of transgressions of ethical principles, identification of conflicts of interest.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Acquiring the fundamental notions of scientific research methodology and research stages • Acquiring research objectives, reflecting, and evaluating research results • Acquiring the purpose of the research to obtain new knowledge and to understand it • Appropriation of results, validation and transfer of results, comparative performances of Romanian research • Acquiring the methodology and national research, development and innovation programs • Mastering the bidding and execution methodologies and processes of a CDI project • Learning the methodologies and selection and monitoring processes of RDI projects • Knowledge of all the stages involved in submitting and resolving applications for the approval of experimental and / or clinical studies • Knowledge of professional rights and responsibilities arising from conducting scientific research • Critical reading and understanding of a health research article • Knowledge of the stages of the peer review process

Course Syllabus	Hours
1. Initial data. Introduction to research methodology, definition of fundamental and applied (industrial) research terms	1
2. Characteristics of concepts; The defining characteristics of product groups	1
3. The methodologies and defining elements of a project; The basic principles of methodology and project management;	1
4. Methodology and general project management;	1
5. Planning the allocation of resources by stages;	1
6. The methodology and management of the organization of research projects;	1
7. Research process control methodology;	1
8. Research methodologies and programs funded by CNCSIS (project type A, AT, TD)	1
9. The methodology and process of developing a project proposal	1
10. The methodology and use of the SILMO IT System for the elaboration and electronic submission of project proposals	1
11. Documents specific to the project proposal	1
12. Tender forms	1
13. The general logical scheme of conducting a competition of research projects	1
14. General aspects regarding scientific research and technological development	1

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - The study of the intrinsic mechanisms characteristic of the subject allows the development of research and clinical laboratories, resulting in a good insertion of the graduates on the labor market. The analytical curriculum of the discipline determines the training of medical researchers who will serve European citizens / patients with equal rights and development needs.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive exposition of the material according to the analytical program, using the overhead projector, blackboard, computer, PPT
Laboratory	<ul style="list-style-type: none"> •

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> • Making a draft research project

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	50%
- Responses to the laboratory examination	0%

- Periodic checks with written exams	20%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	20%
- Other activities:	0%
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> - descriptive written work - preparing a research project 	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • carrying out a research project at a minimal level 	<ul style="list-style-type: none"> • full knowledge of the subject of the courses

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
LUCIAN FLORIN DOROBANȚU, M.D., Ph. D., Lecturer	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
LUCIAN FLORIN DOROBANȚU, M.D., Ph. D., Lecturer	
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	GENERAL SURGERY (II)				
Didactic position, name and surname of the Discipline Coordinator	Florin Botea, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	Florin Botea, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Florin Botea, M.D., Ph. D., Lecturer Gabriel Veselu, M.D., Ph. D., Lecturer Cristian Cîrlan, M.D., Ph. D. Candidate Mihai Tănase, M.D., Ph. D. Candidate Adina Marinciu, M.D., Ph. D. Candidate				
Discipline Code	MLE.5.10.10	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			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					2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	4
3. Study of the minimal bibliography	2
4. Additional documentation in the library	4
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	2
7. Preparing for different written exams	4
8. Preparing for oral examinations	4
9. Preparing for the final examination	4
10. Consultations	2
11. In the field documentation	4
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	2
15. Other activities:	2

Course name	GENERAL SURGERY (II)
Specific professional competencies	<ul style="list-style-type: none"> • Knowledge of the instruments used in minor surgery interventions • Learning the examination maneuvers specific to general surgery. Care of the surgical patient. • Principles of surgical technique and the ability to understand the indication, necessity and purpose of the recommended surgical procedure • The ability to single-handedly design an appropriate therapeutic plan
Transversal competencies	<ul style="list-style-type: none"> • Effective use of communication resources and assisted professional training (internal portals, specific applications, databases, online applications), both in Romanian and in an international language • Realization of a work or a project by responsibly executing tasks specific to the role of working in a multidisciplinary team • Acquiring team work, oral and written communication skills, use of information technology, availability for learning autonomy and openness to lifelong learning with respect and development of professional ethics
General objectives of the discipline	<ul style="list-style-type: none"> • Acquiring the basic knowledge regarding the physiopathology, diagnosis and treatment of surgical conditions. Knowledge of imaging and laboratory investigations. • Attitude in emergencies that belong to the field of general surgery. • Carrying out the anamnesis and the complete clinical examination, as well as knowing the basic surgical procedures, requesting the appropriate complementary investigations, formulating a correct positive and differential diagnosis. • Conception and application of a therapeutic plan suitable for the indicated condition.

Specific objectives of the discipline

- Knowledge of the pathological features and morbid associates of the surgical patient, acquiring the notions of preoperative preparation and postoperative follow-up of the surgical patient, as well as knowledge of the basic principles of classical surgical treatment and modern means of minimally invasive treatment
- The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibility of adapting to work in a team.

Course Syllabus	Hours
Course 1. Bening hepatic tumors	2
Course 2. Primary malignant hepatic tumors	2
Course 3. Secondary malignant hepatic tumors	2
Course 4. Tumors of the main bile duct	2
Course 5. Bladder cancer	2
Course 6. Vaterian ampulloma	2
Course 7. Pancreatic cancer	2
Course 8. Chronic pancreatitis	2
Course 9. Esophageal cancer	2
Course 10. Gastric cancer	2
Course 11. Hepatic injuries	2
Course 12. Spleen injuries	2
Course 13. Hypersplenism. Splenic tumors	2
Course 14. Robotic surgery	2

Laboratory Syllabus	Hours
1. Clinical observation form. Normal blood and urine values	3
2. Functional exploration technique in hepatobiliary diseases	3
3. Diagnostic technique in the pathology of the abdominal viscera and the urinary system	3
4. Diagnostic technique in mammary gland and chest pathology	3
5. Diagnostic technique in arterial and venous pathology	3
6. Asepsis and antisepsis. Dressings and swaddling	3
7. Surgical instruments. Technical details in laparoscopic surgery, pneumoperitoneum, and diagnostic laparoscopy	3
8. Wounds and surgical suture. Incision and drainage. The bladder catheterization	3
9. Interpretation of radioscopy, radiography, irigography, ultrasound and anorectal exploration	3

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

All the topics taught in the course and practical activities can be found in the didactic and scientific materials of the discipline, the monographs, guides, and courses. The latest data from the national and international specialized literature are presented, corresponding to the maximum level of expectations of representatives of the epistemic community, professional associations and representative employers in the health sector of the country. Most of the presented themes correspond to the scientific content required by the bibliography of the national residency competition.

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive learning. • Multimedia projection of course support. • Magnetic board and flip-chart drawings.
Laboratory	<ul style="list-style-type: none"> • Practicing in the patient and surgical dressing rooms of the general surgery department of examination methods, presentation of clinical cases with emphasis on specific lesions and treatment methods, acquisition of patient care techniques and basic therapeutic notions and principles of surgical procedures. • Teaching and explaining the notions from the practical work guides, observing the surgical interventions transmitted directly from the operating theatres through the video system integrated in the scialityc lamps, daily recording of the cases presented in the internship casebook, periodic evaluations in the form of weekly seminars and semester test.

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

- For admission in the practical internship exam:
- Complete restoration of absences during the clinical internship
 - Student attendance at all seminars
 - Completion of the casebook
 - Passing of the written evaluation tests throughout the semester
- Clinical internship evaluation:
- Oral presentation of the clinical case selected from the case file available in the Surgery Clinic
 - The correct execution of clinical maneuvers related to the objective examination technique with references to the selected case
 - Knowledge of normal and pathological levels of biological constants
 - Knowledge of the minimum instrumentation required for small surgical interventions
 - Correct interpretation of imaging
 - Thorough knowledge of surgical asepsis and antisepsis means
- For admission to the final evaluation:
- Attendance at 80% of the taught courses
 - Passing the practical oral exam
 - Passing the periodic tests during the semester
 - Passing the weekly seminars

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	25%
- Periodic checks with written exams	5%
- Continuous testing throughout the semester	5%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> - Written test – multiple choice test - Practical exam – oral presentation of a selected clinical case 	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Passing the clinical internship exam • Partially completed internship notebook • Correct answers to 3 questions from the final written assessment or the partial exposition of the subjects of the course • Correct exposition but incomplete performance of clinical patient examination maneuvers • Approximate knowledge of risk scales for anesthesia and surgery • Knowledge of surgical asepsis and antisepsis • Knowledge and approximate interpretation of biological constants and imaging • Attendance to 50% of the theoretic courses 	<ul style="list-style-type: none"> • Passing the clinical internship exam with a minimum grade of 9 • Complete and correct internship notebook • Correct and complete answers to all 5 questions in the final evaluation and the full exposition of the surgical topics • Correct presentation of the clinical case, with complete and correct differential diagnosis, appropriate and correctly presented treatment principles • Thorough knowledge of biological constants and medical imaging data • Thorough knowledge of the historical-surgical risk scales • Attendance to 80% of the theoretic courses

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
Florin Botea, M.D., Ph. D., Lecturer	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
Florin Botea, M.D., Ph. D., Lecturer	Iorin Botea, M.D., Ph. D., Lecturer
	Gabriel Veselu, M.D., Ph. D., Lecturer
	Cristian Cîrlan, M.D., Ph. D. Candidate
	Mihai Tănase, M.D., Ph. D. Candidate
	Adina Marinciu, M.D., Ph. D. Candidate

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	INTERNAL MEDICINE. GASTROENTEROLOGY				
Didactic position, name and surname of the Discipline Coordinator	FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Course Coordinator	FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor MIRELA GHEREJA, M.D. ANDREI GAVRILĂ, M.D.				
Discipline Code	MLE.5.10.1 1	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	5

No. of Hours per week	5	Out of which are Course hours:	2	Seminar / Practical Activity / Clinical Stage	3
Total of hours in the curriculum	70	Out of which are Course hours:	28	Seminar / Practical Activity / Clinical Stage	42
		Total hours per semester	125	Total hours of individual study	55

Distribution of time pool per week					Hours
1. Study of the course material					5

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	5
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5
5. Specific activity for the seminary or laboratory	5
6. Homework, 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	5
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	INTERNAL MEDICINE. GASTROENTEROLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Epidemiology and diagnostic criteria in gastroenterological conditions • Knowledge of etiopathogenesis and physiopathology of various digestive diseases • Knowledge of treatment principles and algorithms • Ability to interpret common laboratory tests and paraclinical investigations • Knowledge of the principles of paraclinical and imaging investigations
Transversal competencies	<ul style="list-style-type: none"> • Developing respect and professional ethical values • Capacity to integrate in a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibility of adaptation to teamwork. • The use of a computerized databases that include imaging, laboratory investigations and medical documents
General objectives of the discipline	<ul style="list-style-type: none"> • The accumulation of medical knowledge about the main gastroenterological diseases in order to recognize, establish the therapeutic conduct and their prophylaxis • The development of a clinical sense in the diagnosis and development of gastroenterological diseases based on theoretical knowledge combined with practice at the patient's bedside and the use of interdisciplinary paraclinical methods
Specific objectives of the discipline	<ul style="list-style-type: none"> • Ways of establishing the positive diagnosis of the condition, the differential diagnosis, the treatment principles, the interpretation of test results

Course Syllabus	Hours
1. Clinical evaluation of digestive signs and symptoms	2
2. Paraclinical investigations in Gastroenterology	2
3. Emergencies in Gastroenterology. Upper and lower gastrointestinal hemorrhage	2
4. Digestion and intestinal absorption. Malabsorption syndrome (celiac disease)	2

Course Syllabus		Hours
5.	Functional dyspeptic syndromes. Chronic constipation. Chronic diarrhea.	2
6.	Gastroesophageal reflux disease. Reflux esophagitis. Achalasia.	2
7.	Gastritis. Gastro-duodenal ulcer. Gastric cancer	2
8.	Inflammatory intestinal diseases.	2
9.	Tumor pathology of the lower digestive tract	2
10.	Acute and chronic hepatitis	2
11.	Liver cirrhosis	2
12.	Liver tumors	2
13.	Pathology of the gallbladder and bile ducts	2
14.	Acute pancreatitis. Chronic pancreatitis. Pancreatic tumors	2

Laboratory Syllabus		Hours
1.	Clinical activity at the patient's bedside	7
2.	Participation in ultrasonographic investigations	7
3.	Interpretation of laboratory investigations	7
4.	Interpretation of radiological images	7
5.	Participation in endoscopic investigations	7
6.	Interpretation of a CT / MRI investigation	7

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> The future practical activity of the doctor is based not only on theoretical and practical knowledge, but also on correlation, patience, and special conscientiousness, which are acquired through specialized studies in the faculty. Internal medicine provides the future doctor with the necessary knowledge for the subsequent approach to patients.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	Interactive education, multimedia projection of the course support
Laboratory	Activity at the patient's bedside. Evaluation and interpretation of laboratory data, radiological images, ultrasound, endoscopic and CT / MRI results.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> Knowledge of the basic notions of pathology in the field of internal medicine, A maximum of 20% unmotivated and unrecovered absences from practical work. Recovery of absences from practical works Knowledge of the basic notions of pathology in the field of internal medicine

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	40%
- Responses to the laboratory examination	20%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	20%
- Other activities:	0%
Description of the actual methods of examination – E	
- written paper (descriptive and grid test)	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Passing the practical exam • Promotion of periodic tests • Knowledge of the basic notions of pathology in the studied field, i.e., completion of at least 50% of the topics received in the exam 	<ul style="list-style-type: none"> • In-depth knowledge of the concepts regarding the studied pathology • completion of 90% of the topics received in the exam

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor	FLORENTINA IONIȚĂ RADU, M.D., Ph. D., Assoc. Professor MIRELA GHEREJA, M.D. ANDREI GAVRILĂ, M.D.
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	DERMATOLOGY				
Didactic position, name and surname of the Discipline Coordinator	MIHAIL ALECU, M.D., Ph. D., Professor				
Didactic position, name and surname for the Course Coordinator	MIHAIL ALECU, M.D., Ph. D., Professor				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	IONICA COSTACHE RĂDULESCU, M.D., Ph. D., Assist. ALINA MUȘETESCU, M.D., Ph. D., Assist.				
Discipline Code	MLE.5.10.1 2	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

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	75	Total hours of individual study	19

Distribution of time pool per week					Hours
1. Study of the course material					3

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	4
3. Study of the minimal bibliography	4
4. Additional documentation in the library	0
5. Specific activity for the seminary or laboratory	3
6. Homework, translations, etc.	0
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	5
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	DERMATOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Recognition of specific skin lesions and their integration into skin conditions and syndromes, notions of differential diagnosis and treatment. Knowledge of dematological investigations and therapeutic methods. • Knowledge about prophylaxis and the post-therapeutic period of dermatovenerological diseases included in the course syllabus
Transversal competencies	<ul style="list-style-type: none"> • Capacity for understanding • Capacity for analysis and synthesis • Capacity for organization • The formation of ethical behavior • Capacity for assessment and self-assessment • Ability to work in a team
General objectives of the discipline	<ul style="list-style-type: none"> • The accumulation of medical knowledge about the main dermatovenerological diseases to recognize and establish the therapeutic conduct and prophylaxis for these diseases
Specific objectives of the discipline	<ul style="list-style-type: none"> • Knowing the pathological peculiarities and morbid correlations of the patient with dermatological problems, acquiring the medical history, follow-up and knowing the basic principles of dermatological treatment and modern means of treatment. • The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibility of adapting to teamwork.

Course Syllabus	Hours
Course 1: General notions: General appearance of the skin, histological structure (cells, layers, cytokines, growth factors, intercellular connecting elements), basal membrane, epidermal stem cell. Terminal differentiation processes of keratinocytes; skin barrier function. Pathogenic aspects of skin processes: elementary lesions of skin diseases.	2
Course 2: Pyoderma	2

Course Syllabus	Hours
<p>General aspects of skin infection; normal skin flora; means of anti-infective defense of the skin. Cutaneous staphylococci: etiopathogenesis, clinical aspects, treatment (folliculitis, furuncle, abscess, sycosis, hidradenitis, impetigo, botryocoma, pyoderma vegetatus, exfoliative dermatitis). Cutaneous streptococci: erysipelas, streptococcal cellulitis, lymphangitis, impetigo, cheilitis, streptococcal gangrene</p> <p>Viral infections: general aspects of skin viruses; hyperplastic epidermovirosis (vulgar warts, plantar warts, venereal vegetations); degenerative epidermovirosis; epidermoneurovirosis (herpetic infection, Zoster zone). Canker sores</p>	
<p>Course 3: Cutaneous-mucous mycoses</p> <p>General aspects of skin mycoses (pathogenic agents, injury); epidermomycosis (trichophytic circinate herpes, inguinal mycosis, plantar mycosis, palmar mycosis, interdigital mycosis); pilomycosis (microsporia, trichophytia, kerion celsi, favus); onychomycosis; systemic mycoses; candidiasis; pityriasis versicolor; erythrasma.</p> <p>Various bacterial infections: cutaneous tuberculosis; leprosy; anthrax; erysipeloid of Rosenbach.</p> <p>Cutaneous parasites: scabies; pediculosis; Lyme disease.</p> <p>Injuries caused by insects</p>	2
<p>Course 4: Psoriasis</p> <p>Etiopathogenesis, clinical forms, treatment. Gilbert's pityriasis rosea. Eczema. Lichen planus. Scleroatrophic lichen. Parapsoriasis. Sarcoidosis</p>	2
<p>Course 5: Allergic diseases</p> <p>General notions of allergology and immunology (normal immune response, pathological immune response, types of allergic reactions). Urticaria. Quinque edema. Anaphylactic shock. Allergic reaction to drugs.</p> <p>Eczema. Contact dermatitis. Atopic dermatitis. Polymorphic erythema. Stevens-Johnson syndrome. Toxic epidermal necrosis (Lyell syndrome).</p>	2
<p>Course 6: Autoimmune diseases</p> <p>Lupus erythematosus (chronic and systemic), scleroderma (plaque, band, systemic sclerosis), dermatomyositis, Sjogren's syndrome Vasculitis (classification, clinical aspects, treatment). Itching</p>	2
<p>Course 7: Bullous conditions</p> <p>Pemphigus vulgaris, seborrheic pemphigus, cicatricial pemphigus, bullous pemphigoid, dermatitis herpetiformis, Behcet's disease.</p> <p>Cutaneous manifestations in metabolic disorders: porphyrias, diabetes, cutaneous calcinosis. Pigmentation disorders: vitiligo, leukoderma, hyperpigmentation.</p>	2
<p>Course 8: Skin purpura.</p> <p>Mastocytosis. Seborrheic syndrome (rosacea, seborrheic dermatitis, seborrheic alopecia, acne vulgaris).</p> <p>Chronic venous insufficiency (superficial varicose veins, stasis dermatitis, calf ulcer). Hair and nail disorders.</p>	2
<p>Course 9: Precancerous lesions</p> <p>definition, notion of dysplasia, epithelioma in situ.</p> <p>Bowen's disease. Cutaneous Paget's disease. Baldness. Leukoplasia.</p> <p>Precancerous lesions caused by physical and chemical agents (actinic ketoses, radiodermatitis). Melanocytic nevus (definition, histological aspects, clinical aspects, classification, treatment) Pigmented neocellular nevus (histological aspects, clinical aspects, malignancy criteria, therapeutic attitude).</p>	2
<p>Course 10: Benign skin tumors</p>	2

Course Syllabus	Hours
Epithelial tumors (epidermal nevus, seborrheic wart); Sebaceous gland tumors (Jadason's nevus, sebaceous gland adenomas); Sweat gland tumors (hydroadenomas, eccrine poroma); Connective tissue tumors (fibroma, keloid, leiomyoma, keratoacanthoma); Retention tumors (cysts); vascular tumors (angiomas, lymphangiomas, angiokeratoma); botryomycoma. Kaposi's disease.	
Course 11: Malignant skin tumors Basal cell epithelioma; squamous cell epithelioma; malignant melanoma (etiopathogenesis, histological aspects, clinical aspects, treatment, prophylaxis). Cutaneous sarcomas, mycosis fungoides. Clinical aspects of skin metastases.	2
Course 12: Sexually Transmitted Diseases (1) syphilitic infection - history, epidemiology, pathogen (morphology, life cycle, dynamics, cultivation), immunity in syphilis (serological, nontreponemic and treponemic diagnostic reactions), clinical aspects (primary, secondary, tertiary, congenital syphilis), diagnosis of the syphilitic infection (clinical, serological), treatment (penicillin therapy, treatment regimens, Herxheimer reaction); seroresistant syphilis, importance of the epidemiological investigation.	2
Course 13: Sexually Transmitted Diseases (2) gonococcal urethritis – epidemiology, pathogeny, pathogenesis, clinical aspects, (gonococcal infection in men, women, virgins), complications of gonococcal urethritis, extragenital gonococci, laboratory diagnosis, treatment, post-therapeutic attitude. Chlamydia infection: etiology, epidemiology, clinical aspects, complications, treatment. Reiter's syndrome. Lymphogranulomatosis venereum (Nicolas Favre's disease). Trichomonas infection. Common non-gonococcal urethritis. Cutaneous manifestations during HIV infection.	2
Course 14: Skin diseases with hereditary transmission: ichthyosis; palmo-plantar keratodermas; follicular dyskeratosis; epidermolysis bullosa; xeroderma pigmentosum; Recklinghausen's disease; Bourneville's tuberous sclerosis; cutaneous amyloidosis; albinism	2

Laboratory Syllabus	Hours
PA1: Presentation of clinical cases in the ambulatory and in the bed unit. Elementary lesions: physiopathological, histological, clinical aspects, presentation of the lesions (disposition, rash) Carrying out the dermatological clinical examination	2
PA2: Pyoderma: presentation of clinical cases, bacteriological examination, specific therapeutic measures in purulent collections. Viral infections: presentation of clinical cases, local therapy in Zoster area. Electrocautery technique (general principles, indications, accidents, applications in viral papilloma).	2
PA3: Cutaneous mycoses: presentation of clinical cases, extemporaneous microscopic examination (indications, demonstration, interpretation of results), cultures (on enriched medium), antifungigram; ultraviolet examination. Cutaneous parasites: presentation of clinical cases, parasitological examination directly on the scabies lesion, local therapy	2
PA4: Psoriasis and other erythemato-scaly conditions: presentation of clinical cases, cortisone treatment (indications, degrees of potency of cortisone therapies, adverse effects); occlusive dressing technique. PUVA therapy. Cryotherapy: indications, demonstration, results.	2
PA5: Allergic diseases: presentation of clinical cases, skin tests (indications, performance, interpretation of results); standard epicutaneous tests (performance indications, interpretation	2

Laboratory Syllabus	Hours
of results). Interpretation of skin and laboratory tests for drug allergy. Counseling for patients with skin allergies	
PA6: Autoimmune diseases: presentation of clinical cases, presentation of immunofluorescence aspects in lupus disease, interpretation of immunological changes in lupus.	2
PA7: Bullous diseases, vasculitis: presentation of clinical cases, aspects of immunofluorescence in bullous diseases, cytodagnosis in pemphigus vulgaris, local treatment in bullous diseases	2
PA8: Purpuric syndrome. Pigmentation disorders. Chronic venous insufficiency, seborrheic syndrome; presentation of clinical cases, local treatment in leg ulcers, methods of promoting venous circulation (elastic bandage); types of dressings in leg ulcers; methods of investigating seborrheic syndrome: skin pH, amount of sebum. Hair and nail disorders: presentation of clinical cases, hair support therapies and procedures, excess hair removal therapies and procedures.	2
PA9: Precancerous lesions: presentation of clinical cases, laser treatment (principles, indications, presentation, use of CO ₂ laser and vascular laser). Dermatoscopy: indications, use, limits, applications in the case of nevus lesions.	2
PA10: Benign skin tumors: presentation of clinical cases, excision / biopsy technique in the case of benign skin tumors. Alternative therapies to skin excision in benign skin tumors. Photodynamic therapy.	2
PA11: Malignant skin tumors: presentation of clinical cases, indications, how to perform skin excision. Alternative therapies to skin excision in non-melanocytic malignant skin tumors. Particular aspects of the therapy of pigment tumors.	2
PA12: Syphilitic infection: presentation of clinical cases, interpretation of results of serological investigations (analysis reports), elements of epidemiological investigation. Counseling for patients with sexually transmitted diseases.	2
PA13: Gonococcal urethritis and Chlamydia infection: presentation of clinical cases, bacteriological examination of urethral secretion, interpretation of serological results in Chlamydia infection. Counseling for HIV positive patients.	2
PA14: Skin diseases with genetic transmission: presentation of clinical cases, particular aspects of local therapy in epidermolysis bullosa. Genetic investigation in dermatology.	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
1. The future practical activity of the doctor is based not only on theoretical and practical knowledge, but also on correlation, patience and special conscientiousness, which are acquired through specialized studies in the faculty.
2. Dermatology provides the future doctor with the necessary knowledge for the holistic, subsequent approach to patients.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Free exposition, electronic presentation (Power Point), specific face-to-face teaching methods, interactive activity
Laboratory	<ul style="list-style-type: none"> Clinical activity on patients Presentation of clinical cases (cases from the pathology presented in the course), cases from the general dermatovenerological pathology Discussions on clinical cases. Presentation of techniques and treatment methods specific to dermatovenerology

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

<p>To participate in the final assessment of practical work the student must:</p> <ul style="list-style-type: none"> Have full attendance Participation / presentation of at least 2 clinical cases (elementary lesions, diagnosis and treatment) Perform one of the practical maneuvers presented <p>To participate in the final exam, it is necessary to:</p> <ul style="list-style-type: none"> Attend the practical works Minimum passing grade at the Practical exam
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Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	40%
- Responses to the laboratory examination	30%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	20%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities:	0%

Description of the actual methods of examination – E

- Written exam with descriptive topics.

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> Correct answers to 50% of the questions in the oral questions, or 6 questions out of the 10 question grid. Superficial knowledge of the clinical examination, diagnosis and treatment of a clinical case Satisfactory activity in testing during the semester / evaluation of practical works Attendance at the seminars and passing the practical exam. 	<ul style="list-style-type: none"> Correct answers to all oral questions, 3-5 questions, or all correct answers in the exam grid. The correct performance of the clinical examination, the correct establishment of the diagnosis and therapy in a clinical case. Very good activity at the testing during the semester / assessment of practical works.

Date of completion

22.09.2021

Discipline Coordinator,**MIHAIL ALECU, M.D., Ph. D., Professor****Head of Department,****DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.****Course Coordinator,****MIHAIL ALECU, M.D., Ph. D., Professor****Laboratory Coordinator,****IONICA COSTACHE RĂDULESCU, M.D., Ph. D.,
Assist.
ALINA MUȘETESCU, M.D., Ph. D., Assist.****Department approval date**

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	UROLOGY				
Didactic position, name and surname of the Discipline Coordinator	BOGDAN STREZA, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	BOGDAN STREZA, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	BOGDAN STREZA, M.D., Ph. D. MIRCEA MERTICARIU, M.D., Ph. D.				
Discipline Code	MLE.5.10.1 3	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

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	75	Total hours of individual study	19

Distribution of time pool per week					Hours
1. Study of the course material					3

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	3
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	3
6. Homework, translations, etc.	0
7. Preparing for different written exams	2
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	2
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	UROLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Knowledge of the instruments used in urological interventions. • Learning the examination maneuvers specific to urology. Pre- and post-operative care of the urological patient. • Principles of open and endoscopic urological surgical technique and the ability to understand the indication, necessity and purpose of the recommended interventional procedure. • The ability to design an appropriate therapeutic plan.
Transversal competencies	<ul style="list-style-type: none"> • The efficient use of communication resources and assisted professional training (Internal portals, specific applications, databases, online applications) both in lb. Romanian as well as in an international language. • Realization of a work or a project by carrying out with responsibility tasks specific to the role of working in a multidisciplinary team. • The acquisition of teamwork skills, oral and written communication, the use of information technology, availability for learning autonomy and openness to learning throughout life, with the respect and development of professional ethics.
General objectives of the discipline	<ul style="list-style-type: none"> • Acquiring the basic notions regarding the physiopathology, diagnosis and treatment of urological conditions. • Carrying out the anamnesis and complete clinical examination as well as knowing the basic urological procedures, requesting the appropriate complementary investigations, formulating a positive and correct differential diagnosis. • Recognition of an urological emergency • Conception and application of a therapeutic plan suitable for the identified condition.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Knowing the pathological features and morbid associations of the urological patient, acquiring the notions of preoperative preparation and postoperative follow-up of the urological

patient, as well as knowing the basic principles of classic surgical treatment and modern minimally invasive treatment means.

Course Syllabus	Hours
1. Urological semiology <ul style="list-style-type: none"> General manifestations of urological diseases. Urination disorders. Qualitative changes in urine 	2
2. Clinical examination of the urological patient <ul style="list-style-type: none"> Clinical examination of the urogenital system at the level of various anatomical segments. 	2
3. Urological paraclinical examinations <ul style="list-style-type: none"> Laboratory examination. Uro-genital imaging explorations. 	2
4. Non-specific infections of the urogenital system <ul style="list-style-type: none"> Cystitis, pyelonephritis, pyonephritis, perinephric phlegmon, pyonephrosis 	2
5. Specific infections of the urinary tract - urogenital TB <ul style="list-style-type: none"> Etio-pathogenesis, clinical manifestations, paraclinical investigations. Treatment schemes 	2
6. Urinary tract lithiasis <ul style="list-style-type: none"> The pathogenesis of lithiasis. Symptomatology and anatomical-pathological consequences of urinary lithiasis Examination and therapeutic protocols 	2
7. Renal failure <ul style="list-style-type: none"> Acute renal failure. Renal failure due to urological causes Chronic renal failure due to urological causes 	2
8. Renal tumors <ul style="list-style-type: none"> Benign renal tumors. Malignant renal tumors Parenchymal cancer in children 	2
9. Tumors of the urinary tract <ul style="list-style-type: none"> Tumors of the upper urinary tract Symptomatology, clinical examination, diagnosis, treatment. 	2
10. Benign prostatic tumors <ul style="list-style-type: none"> Prostate adenoma. Pathophysiology, clinical manifestations, diagnosis, treatment 	2
11. Prostate cancer <ul style="list-style-type: none"> Etiology, favorable factors. Pathological anatomy, TNM staging, diagnosis. Investigation protocol, treatment. 	2
12. Testicular tumors <ul style="list-style-type: none"> Etiology, staging The investigation protocol. Treatment 	2
13. Pathology of the scrotum and spermatic cord <ul style="list-style-type: none"> Anatomy, anomalies Torsion of the spermatic cord, congenital inguinal hernia 	2

Course Syllabus	Hours
<ul style="list-style-type: none"> Traumatism, inflammatory pathology of the scrotum. 	
14. Traumatism of the urogenital system	2
<ul style="list-style-type: none"> Classification and description of various anatomical segments 	

Laboratory Syllabus	Hours
1. Clinical examination of the urological patient. Symptoms determined by the act of micturition.	2
2. The technique of the objective examination of the urological patient. The main urogenital organs examined	2
3. Specific urological examinations and maneuvers	2
4. Urine collection for laboratory investigations. Urine summary	2
5. Bacteriological laboratory. Koch bacillus research	2
6. Echography (Ultrasonography) of the urinary system	2
7. Radiological exploration of the urinary system. Intravenous urography and other radiological investigations	2
8. Urological investigation using computed tomography and nuclear magnetic resonance	2
9. Radioisotope explorations in urology	2
10. Endoscopic investigation of the urinary system. Endoscopic instruments and the main types of endoscopic interventions	2
11. Urodynamic investigation of the urinary system	2
12. ESWL (extracorporeal shock wave lithotripsy)	2
13. Laparoscopic and robotic surgery in urology	2
14. Renal dialysis. The main accessory tools used in urology.	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
All the topics taught in the course and practical internships are presented in the didactic and scientific materials of the discipline, guides, courses, in which the latest data from the national and international specialized literature are taken, corresponding to the maximum share of the expectations of the representatives of the epistemic community, professional associations and representative employers in the health field of the country. Most of the presented themes correspond to the scientific content required by the bibliography of the national residency competition.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	Didactic activity, face-to-face with the students, the course presented using modern methods assisted by video projection on the screen (Power Point presentations); Drawings on flipchart and magnetic board, interactive course

How the information is transmitted**Laboratory**

Practicing in the hospital rooms and dressing rooms of the urology department, examination methods, presentation of clinical cases with emphasis on specific lesions and treatment methods, acquisition of patient care techniques and basic therapeutic notions and principles of urological procedures. Teaching and explaining the notions from the practical work guides, observing surgical interventions in the operating room, daily recording of the cases presented in the casebook of the internship, periodic evaluations in the form of weekly seminars and semester tests.

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

- Complete restoration of absences during the clinical internship;
- Student attendance at all seminars;
- Completing the casebook;
- Promotion in the written assessment tests throughout the semester.

Clinical internship evaluation:

- Oral presentation of the clinical case selected from the case file available in the Urology Clinic;
- The correct performance of clinical maneuvers registered in the technique of the objective examination with references to the selected case;
- Knowledge of normal and pathological values of biological constants;
- Knowledge of the minimum necessary instruments for small urological surgical interventions;
- Correct interpretation of imaging;
- Detailed knowledge of the means of surgical asepsis and antisepsis.

For admission to the final assessment:

- Attendance at 80% of the taught courses;
- Promotion of the practical oral exam;
- Promotion of periodic tests during the semester;
- Promotion of weekly seminars.

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	40%
- Responses to the laboratory examination	30%
- Periodic checks with written exams	15%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%

Description of the actual methods of examination – E

Written work with 10 descriptive questions on the subject of the courses taught during 3 hours
Individual practical exam

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Correct answer to 5 questions from the final written assessment or the partial exposition of the subjects of the course • Correct exposure but incomplete performance of clinical patient examination maneuvers • The correct description of the minimum surgical instruments required for a small urological surgery, without being able to adapt the surgical kit to the specifics of the intervention. • Knowledge of surgical asepsis and antisepsis • Approximate knowledge of biological constants and imaging. 	<ul style="list-style-type: none"> • Passing the clinical internship exam with a minimum grade of 9 • Correct and complete answer to the questions in the final evaluation of surgical urology • The correct presentation of the clinical case, with complete and correct differential diagnosis, inherent and correctly presented treatment principles. • Identification of all the components of the surgical kit as well as the adaptation of the instruments to the specifics of the intervention. • Thorough knowledge of biological constants and medical imaging data • Detailed knowledge of anesthetic-surgical risk scales.

<p align="center">Date of completion</p> <p align="center">22.09.2021</p>	
<p align="center">Discipline Coordinator,</p> <p align="center">BOGDAN STREZA, M.D., Ph. D.</p>	<p align="center">Head of Department,</p> <p align="center">DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.</p>
<p align="center">Course Coordinator,</p> <p align="center">BOGDAN STREZA, M.D., Ph. D.</p>	<p align="center">Laboratory Coordinator,</p> <p align="center">BOGDAN STREZA, M.D., Ph. D. MIRCEA MERTICARIU, M.D., Ph. D.</p>
<p align="center">Department approval date</p> <p align="center">30.09.2021</p>	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	PULMONOLOGY				
Didactic position, name and surname of the Discipline Coordinator	MARA AMALIA BĂLTEANU, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	MARA AMALIA BĂLTEANU, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	MARA AMALIA BĂLTEANU, M.D., Ph. D., Lecturer				
Discipline Code	MLE.5.10.1 4	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

No. of Hours per week	3	Out of which are Course hours:	2	Seminar / Practical Activity / Clinical Stage	1
Total of hours in the curriculum	42	Out of which are Course hours:	28	Seminar / Practical Activity / Clinical Stage	14
		Total hours per semester	75	Total hours of individual study	33

Distribution of time pool per week					Hours
1. Study of the course material					3

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	2
7. Preparing for different written exams	2
8. Preparing for oral examinations	2
9. Preparing for the final examination	2
10. Consultations	4
11. In the field documentation	4
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	1
14. Examinations	1
15. Other activities:	5

Course name	PULMONOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • The student's acquisition of the ability to correlate theoretical notions with practical activity in order to understand the diagnosis and treatment of broncho-pulmonary pathological processes. • Course: <ul style="list-style-type: none"> - to know the clinical and paraclinical elements that guide the diagnosis in pleuro-pulmonary pathology - to carry out the differential diagnosis of pleuro-pulmonary pathology - to know the management of the patient with acute and chronic pleuro-pulmonary pathology • Practical work and clinical internship: <ul style="list-style-type: none"> - to take the medical history of patients with pleuro-pulmonary pathology - to carry out the clinical examination of the patient with pleuro-pulmonary pathology - to know the practical elements, indications, contraindications and complications of the tuberculin test, pleural puncture and fibrobronchoscopic examination - to interpret the tuberculin test, radiological examination, and respiratory functions tests
	<ul style="list-style-type: none"> • To demonstrate concern for professional improvement by participating in medical scientific events • To demonstrate involvement in scientific activities, such as the elaboration of specialized articles and studies • To participate in projects of a scientific nature, compatible with the requirements of integration in European education
General objectives of the discipline	<ul style="list-style-type: none"> • To know the particularities of diagnosis, treatment, and epidemiology of broncho-pulmonary pathology

Specific objectives of the discipline	<ul style="list-style-type: none"> • To examine and present a clinical case with respiratory pathology • To perform and interpret the results of specific clinical and paraclinical tests • To establish the positive diagnosis of cases with respiratory pathology • To manage cases with respiratory pathology according to current provisions
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Course Syllabus	Hours
1. CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) Definition, risk factors, structure-function correlation, pathogenic heterogeneity and its clinical implications, proteases and anti-proteases, pathophysiology, clinical aspect, evolution and prognosis, complications, acute respiratory failure and pulmonary-heart syndrome from COPD, treatment.	2
2. BRONCHIAL ASTHMA Definition, structural changes in the airways, cells and mediators, functional consequences of inflammation in the airways, epidemiology, risk factors, factors that cause or incite bronchial obstruction, drugs used in the treatment of asthma, special categories of asthma, complications.	2
3. PNEUMONIA Classification, incidence, epidemiology, etiology, pathogenesis, positive diagnosis, differential diagnosis, prognosis, treatment. Pneumonia in HIV-positive and HIV-negative immunosuppressed patients .	2
4. BRONCHO-PULMONARY SUPPURATION a. Bronchiectasis: definition, prevalence, morphopathology, pathogenesis, etiology, diagnosis, prophylaxis, and treatment. b. Lung abscess: causes, microbiology, positive and differential diagnosis, medical and surgical treatment. Empyema: causes, diagnosis, treatment .	2
5. ETIOPATHOGENY OF TUBERCULOSIS a. General characteristics of tuberculosis. b. Bacteriological diagnosis of tuberculosis, modern methods of bacteriological diagnosis. c. The host organism's reaction to tuberculosis infection: the Koch phenomenon, the reaction to tuberculin, the immune response in tuberculosis, protective immunity. Morphopathology of tuberculosis, elementary types of tuberculous lesions	2
6. CLINICAL ASPECT OF TUBERCULOSIS a. Classifications of tuberculosis. b. Tuberculous primary infection (primary tuberculosis): pathogenesis, general characteristics and radio-clinical forms, criteria for positive and differential diagnosis, evolution, and prognosis. c. Secondary tuberculosis (phthisis): general characteristics, phthisiogenesis, incipient phthisis and manifesting phthisis, positive and differential diagnosis, evolution, and prognosis. Tuberculous sero-fibrinous pleurisy: incidence, morphopathology, pathogenesis, clinical-radiological picture, pleural fluid examination, positive and differential diagnosis, prognosis.	2
7. TREATMENT OF TUBERCULOSIS a. Therapeutic methods. b. Antituberculosis drugs: classification, activity and pharmacological characteristics, doses, ways, and rhythm of administration. c. Experimental bases of chemotherapy: combination of drugs, intermittent administration, duration of treatment.	2

Course Syllabus	Hours
Therapeutic conduct: chemotherapy regimens, patient monitoring, adverse reactions and contraindications of the main antituberculosis drugs, treatment of failures and relapses, treatment in special situations.	
8. EPIDEMIOLOGY, PREVENTION AND COMBAT OF TUBERCULOSIS a. The epidemiological process: sources, transmission, receptive population, the influence of the internal and external environment. b. Tuberculosis endemicity in the world and in Romania. c. Means of tuberculosis detection: passive symptomatic detection, active detection through radiographic examination, tuberculin intradermal reaction and epidemiological filiation investigation. d. Means of tuberculosis prophylaxis: standardized chemotherapy, BCG vaccination, chemoprophylaxis, outbreak control.	2
9. PLEURAL PATHOLOGY a. Pleurisy: physiology and pathophysiology of the pleural space, differential diagnosis of pleurisy, separation of exudates from transudates, classification of exudates. b. Pneumothorax: definition, physiology, classification, signs and symptoms, treatment .	2
10. PULMONARY NEOPLASM a. Oncogenesis, histological classification, risk factors, survival, detection, diagnosis and staging, complications, paraneoplastic syndromes, treatment and surveillance, prophylaxis .	2
11. PULMONARY THROMBOEMBOLISM a. Pathogenesis, risk factors, diagnosis of venous thrombosis, clinical forms of pulmonary thromboembolism, investigations, differential diagnosis, prognosis, non-thrombotic pulmonary thromboembolisms, prophylaxis, and treatment. Pulmonary hypertension	2
12. ACUTE AND CHRONIC RESPIRATORY FAILURE. CHRONIC PULMONARY HEART SYNDROME a. Mechanisms, classification, the role of ventilation and circulation in respiratory failure, clinical aspects, complications, treatment. Chronic pulmonary heart syndrome: definition and description, physiology and pathophysiology, clinical syndromes	2
13. SARCOIDOSIS Definition, histology and immunopathology, epidemiology, etiology, clinical data, and investigations	2
14. PULMONARY DETERMINATIONS IN SYSTEMIC DISEASES Pulmonary determinations in patients with HIV/AIDS disease, the lung in rheumatic and collagen disorders, in cardiovascular disorders, gastrointestinal and liver disorders, hematological disorders, renal and endocrine disorders.	2

Laboratory Syllabus	Hours
1. Signs and symptoms of disorders of the respiratory system. Clinical examination of the respiratory system.	2
2. The observation sheet and the stages of the clinical case presentation. Presentation of COPD clinical cases	2
3. Functional respiratory tests (indications, contraindications, technique, interpretation).	2
4. Clinical case presentation of asthma.	2
5. Imaging studies (pulmonary x-ray, computer tomographic examination - indications, interpretation).	2
6. Presentation of a clinical case of community-acquired pneumonia.	2

Laboratory Syllabus	Hours
7. Examination of sputum (collection, transport, examination, interpretation of results of microscopy, cultures, antibiogram).	2
8. Presentation of a clinical case of pulmonary tuberculosis.	2
9. Tuberculin testing (types, method of administration and reading, interpretation, indications and contraindications, false negative and false positive reactions).	2
10. Clinical case presentation of bacillary pleurisy.	2
11. Fibrobronchoscopic examination (indications, contraindications, technique, interpretation).	2
12. Clinical case presentation of broncho-pulmonary neoplasm.	2
13. Pleural puncture and biopsy (indications, contraindications, technique, interpretation).	2
14. Presentation of a clinical case of pulmonary thromboembolism.	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - In order to establish the contents and the choice of teaching/learning methods, the head of the discipline organizes annual meetings with members of the Romanian Society of Pneumology, representatives of the National Tuberculosis Control Program, as well as with other teaching staff in the field, members of other superior educational institutions. These meetings are aimed at identifying the needs and expectations of employers in the field and coordinating with other similar programs from other higher education institutions.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive face-to-face lecture with students, course taught in electronic PPT format Presentation of basic concepts accompanied by iconography, diagnostic and therapeutic correlations.
Laboratory	<ul style="list-style-type: none"> • Presentation of clinical and paraclinical investigations, presentation of clinical cases of broncho-pulmonary pathology.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ol style="list-style-type: none"> 1. Mandatory attendance at practical work - clinical internships with the possibility of making up for up to three absences. 2. Clinical case presentation. 3. Interpretation of spirometry 4. Gasometry interpretation 5. Presentation of an article translation from an international specialized journal (European Respiratory Journal, Breathe, CHEST, Revue des Maladies Respiratoires) <p>Passing the practical exam is mandatory for admission to the final exam</p>

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	55%
- Responses to the laboratory examination	25%
- Periodic checks with written exams	5%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	5%
- Other activities:	0%
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> - practical exam: interpretation of a chest x-ray / spirometry report / sputum bacteriological examination report / bronchoscopy report - quiz test (60 questions with multiple answers) covering the subject of the courses 	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<p>Achieving a grade 5 at the practical exam</p> <ol style="list-style-type: none"> 1. Recognition of the criteria for a positive diagnosis of pulmonary tuberculosis 2. Recognition of functional respiratory syndromes. 3. Recognition of pulmonary radiological syndromes. <p>Achieving a grade 5 at the multiple-choice test</p> <p>! Passing the practical exam is mandatory for admission to the final exam.</p> <ol style="list-style-type: none"> 1. Acquiring the definitions of bronchopulmonary diseases treated in the course 2. Understanding the criteria for a positive diagnosis 3. Knowledge of the basic principles in the treatment of bronchopulmonary diseases 4. Knowledge of treatment schemes in pulmonary tuberculosis 	<p>Achieving a grade 10 at the practical exam</p> <ol style="list-style-type: none"> 1. Establishing the radiological diagnosis 2. Establishing the functional diagnosis 3. Establishing the bacteriological diagnosis 4. Establishing the bronchoscopic diagnosis <p>Achieving a grade 10 at the multiple-choice test</p> <ol style="list-style-type: none"> 1. The possibility of establishing a positive diagnosis of broncho-pulmonary diseases 2. Knowledge of pharmacological and non-pharmacological treatment of bronchopulmonary diseases

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
MARA AMALIA BĂLTEANU, M.D., Ph. D., Lecturer	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,

**MARA AMALIA BĂLTEANU, M.D., Ph. D.,
Lecturer**

**MARA AMALIA BĂLTEANU, M.D., Ph. D.,
Lecturer**

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	OCCUPATIONAL MEDICINE				
Didactic position, name and surname of the Discipline Coordinator	NADIA EL-AGHA, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	NADIA EL-AGHA, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	NADIA EL-AGHA, M.D., Ph. D.				
Discipline Code	MLE.5.10.1 5	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

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					2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	3
7. Preparing for different written exams	2
8. Preparing for oral examinations	3
9. Preparing for the final examination	5
10. Consultations	5
11. In the field documentation	5
12. Documentation from web sources, portals, wiki websites	1
13. Tutoring	2
14. Examinations	1
15. Other activities:	1

Course name	OCCUPATIONAL MEDICINE
Specific professional competencies	<ul style="list-style-type: none"> • Acquiring the theoretical and practical notions provided in the analytical curriculum of the occupational medicine discipline, regarding the diagnosis and treatment of occupational diseases and diseases related to the profession and notions regarding health and safety legislation at work, • Identifying risk factors at a workplace, • Formulating the presumptive diagnosis of an occupational disease or diseases related to the profession, • Specifying the necessary prophylaxis measures in the conditions of exposure to the risk of illness at work, • Specifying the principles of treatment in occupational diseases and diseases related to the profession, • Formulation of the protocol for paraclinical and laboratory investigations in the diagnosis of various occupational diseases and in the framework of employment and periodical medical checks of the active population exposed to the risk of occupational disease
Transversal competencies	<ul style="list-style-type: none"> • Ability to analyze and synthesize • Organizational capacity • Ability to understand • Evaluation and self-evaluation capacity • Formation of ethical behavior • Ability to work in a team
General objectives of the discipline	<ul style="list-style-type: none"> • Presentation of the general aspects regarding the activity of the occupational medicine doctor, • Presentation of legislative aspects regarding health and safety at work, • Diagnosis and treatment of occupational diseases and diseases related to the profession

Specific objectives of the discipline	<ul style="list-style-type: none"> • Recognition of occupational hazards • Prevention of occupational diseases • Diagnosis of occupational diseases - differential diagnosis with other non-occupational diseases. Requesting paraclinical and laboratory investigations - including toxicological ones for a positive professional diagnosis • Treatment of occupational diseases on the basis of existing protocols in the event that they do not have a specialized clinic at hand • The training of the general and emergency medicine doctor regarding the urgent attitude in the case of acute occupational poisoning • Learning the elements of monitoring the intoxicated patient or with an occupational disease
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Course Syllabus	Hours
Course 1: OCCUPATIONAL MEDICINE - GENERAL <ul style="list-style-type: none"> • Definition • The goals of occupational medicine • Working condition 	2
Course 2: PROFESSIONAL TOXINS <ul style="list-style-type: none"> • The general action of professional toxins on the body • The component segments of occupational medicine • The organization and operation of occupational medicine on a national and international level 	2
Course 3: MEDICAL ERGONOMICS <ul style="list-style-type: none"> • Ergonomics (definition, classification, relations in the field of ergonomics, man-machine-environment dysfunctions, efficiency of ergonomics) 	2
Course 4: WORK PHYSIOLOGY <ul style="list-style-type: none"> • Physiological changes of the body during work • Work capacity and the factors that determine it • Professional fatigue 	2
Course 5: OCCUPATIONAL DISEASES (1) <ul style="list-style-type: none"> • Definition • The table of occupational diseases legislated in our country and internationally 	2
Course 6: OCCUPATIONAL DISEASES (2) <ul style="list-style-type: none"> • General information regarding the positive diagnosis, treatment, and prophylaxis of occupational diseases • Diseases related to the profession (definition, table) 	2
Course 7: OCCUPATIONAL DISEASES OF THE RESPIRATORY SYSTEM (1) <ul style="list-style-type: none"> • PNEUMOCONIOSIS: definition, etiology (main etiological factors, favoring etiological factors, occupational exposure time, exposed professions), general pathogenesis, classification of pneumoconioses (anatomical-pathological, radiological criteria) • SILICOSIS. Definition. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Complications. Evolution. Work capacity expertise. Treatment. Prophylaxis 	2

Course Syllabus	Hours
<ul style="list-style-type: none"> ASBESTOSIS. Definition. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Complications. Evolution. Work capacity expertise. Treatment. Prophylaxis 	
<p>Course 8: OCCUPATIONAL DISEASES OF THE RESPIRATORY SYSTEM (2)</p> <ul style="list-style-type: none"> BYSSINOSIS. Definition. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Complications. Evolution. Work capacity expertise. Treatment. Prophylaxis PROFESSIONAL ASTHMA. Definition. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis 	2
<p>Course 9: OCCUPATIONAL POISONING (1)</p> <ul style="list-style-type: none"> PROFESSIONAL TOXICS. Definition. The penetration of toxins into the body. Circulation, distribution, storage. Biotransformation of toxics. Elimination of toxins from the body. Mechanisms of toxic action. Exposure-effect relationships and the exposure-response relationship. Exposure indicators and biological effect indicators. Admissible limits OCCUPATIONAL LEAD POISONING (metallic lead, lead oxides, inorganic compounds, and organic compounds). Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Sequels. Treatment. Prophylaxis OCCUPATIONAL MERCURY POISONING (metallic mercury, inorganic compounds, and organic compounds). Etiology. Pathogenesis. Clinical picture. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis 	2
<p>Course 10: OCCUPATIONAL POISONING (2)</p> <ul style="list-style-type: none"> OCCUPATIONAL BENZENE POISONING. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis OCCUPATIONAL POISONING WITH NITRO AND AMINO DERIVATIVES OF AROMATIC HYDROCARBONS Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis ACUTE OCCUPATIONAL INTOXICATION WITH CARBON OXIDE. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis 	2
<p>Course 11: OCCUPATIONAL POISONING (3)</p> <ul style="list-style-type: none"> PROFESSIONAL POISONING WITH GASES AND IRRITANT VAPORS. Etiology. Pathogenesis. Clinical aspect. Treatment. Prophylaxis PROFESSIONAL POISONING WITH ORGANO-PHOSPHORUS INSECTO-FUNGICIDES. Etiology. Pathogenesis. Clinical aspect. Treatment. Prophylaxis OCCUPATIONAL INTOXICATION WITH METHYL ALCOHOL. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis 	2
<p>Course 12: OCCUPATIONAL DISEASES DUE TO PHYSICAL FACTORS (1)</p> <ul style="list-style-type: none"> DEAFNESS AND PROFESSIONAL HYPOACUSIS. Definition of occupational deafness and hearing loss. Etiology. Pathogenesis. Clinical aspect. Positive diagnosis. Differential diagnosis. Treatment. Prophylaxis OCCUPATIONAL DISEASES DUE TO VIBRATIONS (TREPIDATIONS). Etiology. General pathogenesis. Occupational diseases due to vibrations with a frequency of 0-2 Hz, with a frequency of 0-20 Hz, with a frequency of 20-200 Hz (Raynaud's Occupational Syndrome) 	2
<p>Course 13: OCCUPATIONAL DISEASES DUE TO PHYSICAL FACTORS (2)</p> <ul style="list-style-type: none"> OCCUPATIONAL DISEASES DUE TO WARM MICROCLIME. Etiology. Pathogenesis. Clinical aspect. Treatment. Prophylaxis 	2

Course Syllabus	Hours
<ul style="list-style-type: none"> OCCUPATIONAL DISEASES DUE TO COLD MICROCLIME. Etiology. Pathogenesis. Clinical aspect. Treatment. Prophylaxis 	
Course 14: SPECIAL PROBLEMS OF OCCUPATIONAL MEDICINE <ul style="list-style-type: none"> OCCUPATIONAL MEDICINE FOR SOME SOCIO-PROFESSIONAL CATEGORIES. The work of the left-handed, the work of the monocular, the work of the epileptic, the work of the diabetic OCCUPATIONAL MEDICINE IN DIFFERENT PROFESSIONAL FIELDS. Mine. Agriculture. The car manufacturing industry. Textile industry. Work at video terminals. Medical-sanitary professions. Transports. 	2

Laboratory Syllabus	Hours
1. Professional medical history	2
2. Medical examination upon employment and periodic medical control	2
3. Professiograms	2
4. Radiological examination in silicosis	2
5. Functional respiratory tests	2
6. Clinical case of silicosis	2
7. Clinical case of occupational asthma	2
8. Clinical case of professional lead poisoning	2
9. Clinical case of occupational poisoning with metallic mercury	2
10. Clinical case of professional poisoning with benzene	2
11. Physiological changes of the body during work	2
12. The medical examination upon employment and the periodic medical control for persons with traffic safety functions	2
13. Audiogram and presentation of cases of occupational deafness	2
14. Case presentations: specific cases of occupational medicine.	2

Minimum References:
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Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> Because, often the patient does not reach the occupational medicine doctor directly, the attitude of the doctor from any field, but especially from the emergency system (in the case of acute occupational poisoning), the family doctor and the doctor from other medical specialties (internal medicine, pneumology, oncology) , allergology, gastroenterology, neurology, rheumatology, etc.), the recognition or non-recognition of occupational diseases, give the verdict on the patient's state of health, on his work capacity. At the same time, recognizing the harms and their negative influence on human health in due time, makes it possible to develop different health programs applied at the level of individuals and at the level of the collective .

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Presentation of the study material in the form of oral and graphic lectures, processed in the Power Point application, interactive course based on questions and answers
Laboratory	<ul style="list-style-type: none"> Presentations of clinical cases and paraclinical investigations specific to the complex pathology taught in the course, discussions, clinical cases, interpretations of analysis bulletins

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> Performing the professional medical examination, Correct interpretation of analysis reports (toxicological, ergonomic, hematological, biochemical,) and other paraclinical investigations Learning the qualities necessary to establish the positive and differential diagnosis for occupational disease, as well as the principles of prophylaxis and treatment Assimilation of the basic elements of the professional code of ethics.

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	50%
- Responses to the laboratory examination	30%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities:	0%

Description of the actual methods of examination – E	
- descriptive written work	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> The student knows the main concepts Professional clinical examination The specialized language Positive diagnosis in occupational disease and occupational disease Solving 50% of the exam subjects Solving a clinical case 	<ul style="list-style-type: none"> The student knows and correctly uses the main concepts and notions studied Acquiring subject-specific skills Using a complex specialized language Solving 90% of the exam subjects Grade 8 in the practical exam

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
NADIA EL-AGHA, M.D., Ph. D.	DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.

Course Coordinator,
NADIA EL-AGHA, M.D., Ph. D.

Laboratory Coordinator,
NADIA EL-AGHA, M.D., Ph. D.

Department approval date
30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	SURGICAL MANOEUVRES SKILLS (2ND MODULE)				
Didactic position, name and surname of the Discipline Coordinator	DAN IOAN ULMEANU, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Course Coordinator	DAN IOAN ULMEANU, M.D., Ph. D., Assoc. Professor				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	DAN IOAN ULMEANU, M.D., Ph. D., Assoc. Professor FLORIN BOTEA, M.D., Ph. D., Lecturer ADINA MARINCIU, M.D., Ph. D. Candidate				
Discipline Code	MLE.5.10.1 6	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	3

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	75	Total hours of individual study	19

Distribution of time pool per week					Hours
1. Study of the course material					3

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	1
3. Study of the minimal bibliography	1
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	1
7. Preparing for different written exams	1
8. Preparing for oral examinations	2
9. Preparing for the final examination	2
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	SURGICAL MANOEUVRES SKILLS (2 ND MODULE)
Specific professional competencies	<ul style="list-style-type: none"> • Knowledge of the instruments used in classical and laparoscopic surgical interventions. • Learning the examination maneuvers specific to general surgery. Pre- and post-operative care of the surgical patient. • Principles of surgical technique and the ability to understand the indication, necessity and purpose of the recommended surgical procedure. • The ability to design an appropriate therapeutic plan.
Transversal competencies	<ul style="list-style-type: none"> • The efficient use of communication resources and assisted professional training (Internal portals, specific applications, databases, online applications). • Realization of a work or a project by carrying out with responsibility tasks specific to the role of working in a multidisciplinary team. • The acquisition of teamwork skills, oral and written communication, the use of information technology, availability for learning autonomy and openness to learning throughout life, with the respect and development of professional ethics.
General objectives of the discipline	<ul style="list-style-type: none"> • Acquiring the basic notions regarding the treatment of surgical conditions. • Carrying out the anamnesis and the complete clinical examination as well as knowing the basic surgical procedures, requesting the appropriate complementary investigations, formulating a positive and correct differential diagnosis. • Conception and application of a therapeutic plan suitable for the identified condition.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Knowing the particularities of various types of surgical interventions as well as the instruments used during them. • Acquiring the notions of preoperative preparation and postoperative follow-up of the surgical patient, as well as

	<p>knowing the basic principles of classical surgical treatment and modern means of minimally invasive treatment.</p> <ul style="list-style-type: none"> • The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibilities of adaptation to teamwork.
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Course Syllabus	Hours
1. Introduction and brief history of minimally invasive surgery. The specific difficulties and particularities of minimally invasive interventions	2
2. The technology, equipment and tools necessary for minimally invasive interventions	2
3. Laparoscopy and robotic surgery as a means of diagnosis	2
4. The minimally invasive approach to the pathology of the esophago-gastric junction	2
5. The minimally invasive approach to achalasia of the cardia.	2
6. The minimally invasive approach in main biliary tract lithiasis	2
7. Correction of iatrogenic lesions of the main biliary tract	2
8. Minimally invasive procedures used in metabolic surgery	2
9. Laparoscopic appendectomy	2
10. The minimally invasive approach to malignant colorectal tumors	2
11. The minimally invasive approach to inguinal hernias	2
12. The minimally invasive approach to stress urinary incontinence and genital prolapse	2
13. The minimally invasive approach to benign ovarian cystic pathology	2
14. Minimally invasive maneuvers specific to laparoscopic surgery	2

Laboratory Syllabus	Hours
1. Dressings	2
2. Asepsis and antisepsis	2
3. Technical details in laparoscopic surgery and diagnostic laparoscopy	2
4. The surgical instruments intended for classical surgery	2
5. The surgical instruments intended for laparoscopic surgery	2
6. The equipment used in laparoscopic interventions (image display systems, signal processing systems, storage systems, lavage-suction devices, devices for creating and maintaining pneumoperitoneum, electro-surgery platforms)	2
7. Wounds and surgical sutures	2
8. Incision and drainage	2
9. The bladder catheterization	2
10. Interpretation of radiological investigations used in surgical diagnosis (radioscopy, radiography, irrigography, cholangiography)	2
11. Interpretation of ultrasound investigations used in surgical diagnosis (transabdominal ultrasound, transvaginal ultrasound, superficial venous Doppler ultrasound)	2
12. Endoscopic investigations used in the diagnosis of surgical pathologies (upper GI endoscopy, lower GI endoscopy)	2
13. Technique of sutures in classical surgery (suture of aponeuroses, integumentary suture, digestive sutures)	2
14. Technique of sutures in laparoscopic surgery (intracorporeal suture, extracorporeal suture, use of mechanical suture devices)	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - All the topics taught in the course and practical internships are presented in the didactic and scientific materials of the discipline, monographs, guides, courses, in which the latest data from the national and international specialized literature are taken, corresponding to the maximum expectations of the representatives of the epistemic community, professional associations and representative employers in the field of Health in the country. - Most of the presented themes correspond to the scientific content required by the bibliography of the national residency competition.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Interactive course assisted by video projection on the screen (Power Point presentations); • Drawings on flipchart and magnetic board.
Laboratory	<ul style="list-style-type: none"> • Practicing in the patient room and dressing rooms of the general surgery department, examination methods, presentation of clinical cases with emphasis on specific lesions and treatment methods, acquisition of patient care techniques and basic therapeutic notions and principles of surgical procedures. • Teaching and explaining the notions from the practical work guides, observing the surgical interventions transmitted directly from the operating room through the video system integrated in the scialityc lamps, daily recording of the cases presented in the casebook of the internship, periodic evaluations in the form of weekly seminars and semester tests.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<p>For admission to the practical internship exam:</p> <ul style="list-style-type: none"> • Complete restoration of absences during the clinical internship; • Student attendance at all seminars; • Completing the casebook; • Promotion in the written assessment tests throughout the semester. <p>Clinical internship evaluation:</p> <ul style="list-style-type: none"> • Presentation of the clinical case selected from the case file available in the Surgery Clinic; • The correct performance of clinical maneuvers registered in the technique of the objective examination with references to the selected case; • Knowledge of normal and pathological values of biological constants; • Knowledge of the minimum necessary instruments for small surgical interventions; • Correct interpretation of imaging; • Detailed knowledge of the means of asepsis and surgical antisepsis.

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

For admission to the final assessment:

- Attendance at 80% of the taught courses;
- Promotion of the practical oral exam;
- Promotion of periodic tests during the semester;
- Promotion of weekly seminars.

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	40%
- Responses to the laboratory examination	30%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	10%
- Other activities:	0%

Description of the actual methods of examination – E

- Written paper with 5 questions from the subjects of the taught courses. The duration of the examination is 2 hours.

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Promotion of the clinical internship exam; • Partially completed internship casebook; • Correct answer to 3 questions from the final written assessment or partial answers for the subjects of the course; • Correct answers but incomplete performance of the patient's objective examination; • Knowledge of surgical asepsis and antisepsis; • Knowledge of 50% of the classic surgical instruments • Knowledge of 60% of laparoscopic surgical instruments • Knowledge of at least 50% of biological constants and imaging; • Attendance at 50% of the theoretical course. 	<ul style="list-style-type: none"> • Passing the clinical internship exam with a minimum grade of 9 • Complete writing of the internship casebook; • Correct and complete answer to all 5 questions from the final evaluation or the full answers to the surgical topics; • The correct presentation of the clinical case, with complete and correct differential diagnosis, correctly presented treatment principles; • 100% knowledge of classic surgical instruments • 100% knowledge of laparoscopic surgical instrumentation • Complete knowledge of biological constants and medical imaging data of interest in general surgery; • Attendance of 90% in the theoretical course.

Date of completion

22.09.2021

Discipline Coordinator,

Head of Department,

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

Course Coordinator,

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

Laboratory Coordinator,

**DAN IOAN ULMEANU, M.D., Ph. D., Assoc.
Professor
FLORIN BOTEA, M.D., Ph. D., Lecturer
ADINA MARINCIU, M.D., Ph. D. Candidate**

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	EUROPEAN PROJECTS MANAGEMENT				
Didactic position, name and surname of the Discipline Coordinator	VIORICA VIDU, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	VIORICA VIDU, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.5.10.1 7	Formative category of the discipline		CS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week		Hours
1. Study of the course material		5

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	10
3. Study of the minimal bibliography	5
4. Additional documentation in the library	3
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	3
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	5
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	EUROPEAN PROJECTS MANAGEMENT
Specific professional competencies	<p>The specific professional skills acquired during the course:</p> <ul style="list-style-type: none"> • Understanding project concepts, project management, project life cycle, stakeholders, shareholders, decision, work breakdown structure, critical path analysis, cost, budget, resources, risk, monitoring, evaluation, project logic diagram, SWOT analysis, PERT, SMART analysis, • Understanding the role of the project manager in the organizational structure and the time-cost-performance relationship, • Knowledge of the processes regarding the analysis of the organization's internal and external environment, cost estimation, project team building, project monitoring and evaluation, • The ability to distinguish between activity and action, between efficiency and effectiveness and the ability to support the importance of planning any activity. <p>The specific professional skills acquired during the practical works:</p> <ul style="list-style-type: none"> • The ability to use different tools specific to project management: SWOT analysis, PERT analysis, work breakdown structure, Gantt chart, budget, etc. • The ability to schedule the resources needed for a project, • The ability to view any set of daily activities as a project.
Transversal competencies	<ul style="list-style-type: none"> • The ability to relate project management to other disciplines in general management, • The ability to work in a team, • The ability to take decisions.
General objectives of the discipline	<ul style="list-style-type: none"> • Gaining theoretical knowledge about health project management
Specific objectives of the discipline	<ul style="list-style-type: none"> • The ability to analyze and synthesize • The ability to organize

- The ability to understand
- The ability to evaluate and self-evaluate
- The ability to work in a team

Course Syllabus	Hours
1. The project concept (history, definition, characteristic elements, classification, restrictions)	2
2. Project management	2
3. Project life cycle (stages)	2
4. Basic concepts of project management	2
5. Time management in projects	2
6. Project cost management	1
7. Risk management in projects	1
8. Project resource management	2

Minimum References:

- 1.
- 2.
- 3.
- 4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

- All the topics taught in the course and practical internships are presented in the didactic and scientific materials of the discipline, monographs, guides, courses, in which the latest data from the national and international specialized literature are taken, corresponding to the maximum degree of expectations of the representatives of the epistemic community, professional associations and representative employers in the field of health in the country.

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Lecture / Presentation of methodological elements, group discussions, group exercises, case studies, use of information technology, PPT presentation

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

-

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	70%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	0%
- Continuous testing throughout the semester	15%
- Projects / Translations / Posters / Essays, etc.	15%

- Other activities:	0%
Description of the actual methods of examination – E	
- Multiple choice exam	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • According to the correction scale • At least half of the topics must be correct 	<ul style="list-style-type: none"> • According to the correction scale • At least 90% correct topics

Date of completion	
22.09.2021	
Discipline Coordinator, VIORICA VIDU, M.D., Ph. D.	Head of Department, DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator, VIORICA VIDU, M.D., Ph. D.	Laboratory Coordinator, VIORICA VIDU, M.D., Ph. D.
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES				
Didactic position, name and surname of the Discipline Coordinator	-				
Didactic position, name and surname for the Course Coordinator	HORIA MOCANU, M.D., Ph. D., Lecturer MARA BĂLTEANU, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	HORIA MOCANU, M.D., Ph. D., Lecturer MARA BĂLTEANU, M.D., Ph. D., Lecturer				
Discipline Code	MLE.5.10.1 8	Formative category of the discipline		DS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			M	No. of credits	2

No. of Hours per week	40	Out of which are Course hours:	0	Seminar / Practical Activity / Clinical Stage	40
Total of hours in the curriculum	160	Out of which are Course hours:	0	Seminar / Practical Activity / Clinical Stage	160
		Total hours per semester	160	Total hours of individual study	0

Distribution of time pool per week	Hours
1. Study of the course material	0
2. Study according with the course support, manuals	0
3. Study of the minimal bibliography	0
4. Additional documentation in the library	0
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	0
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	0
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	ANNUAL SPECIALTY PRACTICE FOR THE ACQUISITION OF SOME MEDICAL SKILLS AND COMPETENCES
Specific professional competencies	<p>Knowing, understanding, explaining, and interpreting all the theoretical knowledge obtained during the year</p> <ul style="list-style-type: none"> • The practical application of the sanitary legislation in the field and the consequences of its non-compliance • Understanding the need for first aid measures, individual and collective activities.
Transversal competencies	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Students' familiarization with everyday practice, based on the theoretical knowledge obtained
Specific objectives of the discipline	<ul style="list-style-type: none"> • Understanding the importance of practical work for the entire medical career.

Course Syllabus	Hours
Medical language – Completing, under guidance, some forms and documents specific to the department / service where the practice is carried out, communication with the patient regarding health education measures.	30
Administrative-managerial - the patient's rights and obligations, obtaining informed consent, malpractice insurance, general notions of hospital management, knowledge and application of the rules contained in the "universal precautions" notions of hospital management.	30
Hygienic-dietary and microclimate - rules and methods of disinfection, asepsis, antisepsis, specific dietary regimes, and microclimate conditions.	20
Patient care – interpretation of monitoring data, including invasive, of vital functions, interpretation of semiology data and supporting a positive and differential diagnosis. Semiology of the cardiovascular system: digestive, renal, genital. Clinical examination of the cardiovascular, digestive, renal, genital system. Neurological examination. Clinical examination in febrile syndrome. Paraneoplastic syndromes. Hemorrhage.	40

Course Syllabus	Hours
Medical-surgical maneuvers - invasive measurement of BP, VA, ABG, parenteral treatment and calculation of hydro-ionic balance, wound treatment, Electrocardiogram, EKG diagnosis, temporary / definitive immobilization, wound treatment, preparation of patients for imaging examinations (ultrasound abdominal, endoscopy, CT, IMR, PETSCAN, x-rays with contrast material). Preoperative preparation. Surgical instruments. Types of anesthesia, Use of antibiotics in surgery, Types of incisions, sutures, cauterization, drainage, punctures, probes,	40

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - Completing the specialized practical training internship allows the integration of the future doctor in a responsible professional environment, the learning of collaboration with specialists from various fields, the development of the ability to provide clinical assistance in a diversity of issues corresponding to the expectations of representatives of the epistemic community, professional associations and representative employers from the field of Health.

How the information is transmitted	
Forms of activity	Teaching methods used
Practice	<ul style="list-style-type: none"> • Bedside activity in hospitals and clinics • Presentation of methodological elements, group discussions, group exercise, case analysis, demonstrations, dose calculation, case presentations, documentation visits, practice book.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> • see - SPECIALTY PRACTICE STANDARDS IV-V YEARS, PRACTICE SCALE III, Practice scale: Completion of practice notebook, Practice agreement, Evaluation form of the specialized practice

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	40%
- Continuous testing throughout the semester	0%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities:	0%
Description of the actual methods of examination – E	
- written paper	

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • 50% of the basic notions 	<ul style="list-style-type: none"> • all the concepts acquired during practice

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
	DAN IOAN ULMEANU , Assoc. Professor, M.D., Ph. D.
Course Coordinator,	Laboratory Coordinator,
HORIA MOCANU , M.D., Ph. D., Lecturer MARA BĂLTEANU , M.D., Ph. D., Lecturer	HORIA MOCANU , M.D., Ph. D., Lecturer MARA BĂLTEANU , M.D., Ph. D., Lecturer
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	GERIATRICS AND GERONTOLOGY				
Didactic position, name and surname of the Discipline Coordinator	IOANA SOARE, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	IOANA SOARE, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.0.13	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			Op	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week		Hours
1. Study of the course material		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	4
6. Homework, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	2
9. Preparing for the final examination	2
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	5
14. Examinations	1
15. Other activities:	4

Course name	GERIATRICS AND GERONTOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Clinical and paraclinical evaluation of the elderly patient, specifying the general condition and quality of life • Evaluation of the evolution and prognosis of diseases • Assessment of the patient's recovery prognosis
Transversal competencies	<ul style="list-style-type: none"> • Necessary elements for obtaining social aid. Knowledge of the legislation in the field. • The concretization of social actions in the social reinsertion program and the methods of realization
General objectives of the discipline	<ul style="list-style-type: none"> • Evaluation in the pathology of the elderly according to CIF
Specific objectives of the discipline	<ul style="list-style-type: none"> • Elements of clinical, paraclinical diagnosis, evolution, complications, sequelae, prognosis, possible recuperative medical actions, evaluation of the results of functional explorations, nursing needs • Elements of establishing and formulating the functional diagnosis, of adaptive incapacity • Assessing the degree of recoverability of a concrete case (case study). Formulating the recovery plan.

Course Syllabus	Hours
1. Geriatrics, definition of the specialty, definition of the elderly, generalities.	1
2. Illness, accident, infirmity, deficiency, handicap, invalidity. Social insurance legislation	1
3. Peculiarities of geriatrics depending on gender and age	1
4. The social implications of the disease. Voluntary hospitalization or not in a hospital or nursing home	1
5. Peculiarities of cancer in the elderly	1
6. Approaching the issue of death by medical personnel. Patient preparation and support. Preparation and support of relatives. Finding and declaring death.	1
7. Peculiarities of mental illnesses in the elderly.	1
8. Road accidents, fall trauma, fractures, treatment, recovery methods	1

Course Syllabus	Hours
9. Cardiovascular diseases. Peculiarities of treatment and care.	1
10. Pulmonary diseases. Peculiarities of treatment and care. Cardio-respiratory failure. Oxygen therapy.	1
11. Dermatological and sexual diseases	1
12. Kidney diseases	1
13. Digestive diseases	1
14. Recapitulation of geriatrics knowledge	1

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - Regular updating by participating in national conferences and international congresses in the field, studying the current legislation and its changes, correspondence with departments from abroad

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Teaching based on Powerpoint presentations, presentation of clinical cases (patients in interactive discussions with students), interactive dialogue based on the knowledge accumulated so far

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> •

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

Description of the actual methods of examination – E	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Clinical evaluation of a patient according to CIF, International Classification of Functioning, Disability and Health (<ul style="list-style-type: none"> • Interactive dialogue during the courses • Solid knowledge of internal medicine and neurology

Performance of general clinical examination) • Assessment of a patient's care needs.	• Acquiring in detail how to evaluate the patient, the legislation, participation in research and studies
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Date of completion	
22.09.2021	
Discipline Coordinator, IOANA SOARE, M.D., Ph. D., Lecturer	Head of Department, DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.
Course Coordinator, IOANA SOARE, M.D., Ph. D., Lecturer	Laboratory Coordinator,
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	REGENERATIVE MEDICINE AND STEM CELL THERAPY				
Didactic position, name and surname of the Discipline Coordinator	MIHAELA ANDREESCU, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	MIHAELA ANDREESCU, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.14	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			Op	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week		Hours
1. Study of the course material		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	4
6. Homework, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	2
9. Preparing for the final examination	2
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	7
13. Tutoring	5
14. Examinations	1
15. Other activities:	0

Course name	REGENERATIVE MEDICINE AND STEM CELL THERAPY
Specific professional competencies	<ul style="list-style-type: none"> Acquisition of solid theoretical knowledge related to stem cells: definitions, types, therapeutic applications. Indications for hematopoietic stem cell transplantation. Complications of hematopoietic stem cell transplantation. Assessing the indication of a stem cell therapy in different pathologies.
Transversal competencies	<ul style="list-style-type: none"> The combination of fundamental and practical knowledge related to stem cells and their clinical applications opens up a wide range of pathologies and specialties, opening research horizons and innovative treatments
General objectives of the discipline	<ul style="list-style-type: none"> Acquiring concepts related to stem cells and regenerative medicine
Specific objectives of the discipline	<ul style="list-style-type: none"> Knowing the types of stem cells Knowing the hematopoietic stem cell transplantation procedure

Course Syllabus	Hours
1. Regenerative medicine - concept, content, tasks,	2
2. Cells used in cell therapy. Stem cells. Types of stem cells	2
3. Hematopoietic stem cells, definition, sources	2
4. Transplantation of hematopoietic stem cells – procedure description, indications	2
5. Gene therapy and stem cells	2
6. Applied regenerative medicine in clinical practice	2
7. Applied regenerative medicine in clinical practice (continued)	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector

-

How the information is transmitted

Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Interactive programmed education; multimedia projection of course support, PPT, presentation of clinical cases

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

•

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	80%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities:	0%

Description of the actual methods of examination – E

- Written exam, grid exam

Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> Types of stem cells Definition of regenerative medicine Practical applications of regenerative medicine Description of hematopoietic stem cell transplantation 	<ul style="list-style-type: none"> in-depth knowledge of the notions regarding stem cells, the practical applications of stem cell treatment and regenerative medicine

Date of completion

22.09.2021

Discipline Coordinator,

MIHAELA ANDREESCU, M.D., Ph. D.

Head of Department,

DAN IOAN ULMEANU, Assoc. Professor, M.D., Ph. D.

Course Coordinator,

MIHAELA ANDREESCU, M.D., Ph. D.

Laboratory Coordinator,

Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	DERMATOLOGICAL AUTOIMMUNE DISEASES				
Didactic position, name and surname of the Discipline Coordinator	RODICA OLTEANU, M.D., Ph. D.				
Didactic position, name and surname for the Course Coordinator	RODICA OLTEANU, M.D., Ph. D.				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.15	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			Op	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week					Hours
1. Study of the course material					4

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	5
3. Study of the minimal bibliography	5
4. Additional documentation in the library	5
5. Specific activity for the seminary or laboratory	0
6. Homework, translations, etc.	5
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	5
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	AUTOIMMUNE DISEASES IN DERMATOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Recognition of specific skin lesions and their integration into skin conditions and syndromes, notions of differential diagnosis and treatment. Knowledge of dermatological investigation and therapeutic methods in the case of dermatological autoimmune diseases
Transversal competencies	<ul style="list-style-type: none"> • Comprehension ability <ul style="list-style-type: none"> ○ Capacity for analysis and synthesis ○ Organizational capacity ○ The formation of ethical behavior ○ Capacity for assessment and self-assessment ○ Ability to work in a team
General objectives of the discipline	<ul style="list-style-type: none"> • Acquisition of knowledge regarding skin immunology and immune and autoimmune diseases with skin manifestations.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Knowledge of the pathological peculiarities and morbid associates of the patient with immune conditions with dermatological manifestation, acquiring the notions of anamnesis, follow-up and knowledge of the basic principles of dermatological and immunological treatment and modern means of treatment. • The ability to integrate into a multidisciplinary activity that allows the identification of the optimal therapeutic solution as well as the possibility of adapting to teamwork.

Course Syllabus	Hours
1. The immune system of the skin. Innate immunity.	1
2. The immune system of the skin. Adaptive immunity.	1
3. Skin cells involved in the immune response.	1
4. Cytokines, chemokines, growth factors.	1
5. Antimicrobial peptides.	1
6. Keratinocyte, cells with immune functions.	1

Course Syllabus	Hours
7. Autoimmune diseases with skin expression. Lupus erythematosus, Scleroderma.	1
8. Immunological mechanisms in bullous diseases.	1
9. Allergic diseases with skin expression.	1
10. Investigation of immune mechanisms in allergic skin diseases.	1
11. Immune deficiency diseases.	1
12. Immunological mechanisms in psoriasis.	1
13. Immune mechanisms in skin tumors.	1
14. Cutaneous immunity in skin infections.	1

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
<ul style="list-style-type: none"> - The future practical activity of the doctor is based not only on theoretical and practical knowledge, but also on correlation, patience and special conscientiousness, which are acquired through specialized studies in the faculty. - Autoimmune diseases in dermatology provide the future physician with additional knowledge for the holistic, subsequent approach to patients.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> • Oral presentation, Electronic presentation, Power Point, interactive discussions, clinical case presentations

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

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	80%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	10%
- Continuous testing throughout the semester	0%
- Projects / Translations / Posters / Essays, etc.	10%
- Other activities:	0%

Description of the actual methods of examination – E	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> • Answer at least 2 questions correctly 	<ul style="list-style-type: none"> • Correct answer to all 5 questions

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,
RODICA OLTEANU, M.D., Ph. D	DAN IOAN ULMEANU, Assoc. Professor, M.D.,
	Ph. D.
Course Coordinator,	Laboratory Coordinator,
RODICA OLTEANU, M.D., Ph. D	
Department approval date	
30.09.2021	



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	FUNDAMENTALS OF MODERN ELECTROSURGERY				
Didactic position, name and surname of the Discipline Coordinator	VALERIU-GABI DINCĂ, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	VALERIU-GABI DINCĂ, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.0.16	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			Op	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week		Hours
1. Study of the course material		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	2
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	4
6. Homework, translations, etc.	2
7. Preparing for different written exams	1
8. Preparing for oral examinations	2
9. Preparing for the final examination	2
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	7
13. Tutoring	5
14. Examinations	1
15. Other activities:	0

Course name	FUNDAMENTALS OF MODERN ELECTROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> Knowing the introductory concepts of technology used in medical services Knowing and understanding the importance of using technology in medical services Knowing and understanding the importance of using medical equipment Knowing of the effective use of medical equipment according to the existing specializations in the Romanian health system The ability to identify medical equipment by specialty The ability to use medical techniques and instruments
Transversal competencies	<ul style="list-style-type: none"> Demonstrating concern for professional improvement by training practical performance skills The impact of information technologies on the health system
General objectives of the discipline	<ul style="list-style-type: none"> It has the purpose and role of providing students with the knowledge and methods of applying medical technologies that include tools, equipment and procedures, with the help of which medical care services are provided
Specific objectives of the discipline	<ul style="list-style-type: none"> providing the opportunity for optimal understanding of the theory and practice of medical technology offering the opportunity for optimal understanding of the theory and practice of both the instruments and the equipment used in the medical field for different medical specializations developing an understanding of how the basic instruments and equipment in the medical field work

Course Syllabus	Hours
1. Electro-surgery equipment	2
2. Electrocautery	2
3. Radiocautery	2
4. Cryosurgery equipment	2
5. Ultrasonic dissectors	2

Course Syllabus	Hours
6. Radio frequency equipment	2
7. Tourniquet systems	2

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
- The content of the discipline is in accordance with the proposals found in other universities in the country and abroad with a medical profile

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Laptop, video projector. Power Point presentation of the basics accompanied by iconography. Interactive course. Answers to students' questions.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> grades lower than 5 lead to the repetition of the exam in a future session, for the test / tests not passed

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	80%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	0%
- Continuous testing throughout the semester	10%
- Projects / Translations / Posters / Essays, etc.	10%
- Other activities:	0%

Description of the actual methods of examination – E	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> descriptive written exam 	
<ul style="list-style-type: none"> Knowledge of the minimum taught notions, definition of terms 	<ul style="list-style-type: none"> In-depth knowledge of all the concepts taught, the ability to carry out a case study

Date of completion	
22.09.2021	
Discipline Coordinator,	Head of Department,

VALERIU-GABI DINCĂ, M.D., Ph. D., Lecturer

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

**Course Coordinator,
VALERIU-GABI DINCĂ, M.D., Ph. D., Lecturer**

Laboratory Coordinator,

Department approval date

30.09.2021



DISCIPLINE FILE

Faculty	MEDICINE
Department	MEDICO-SURGICAL AND PROPHYLACTIC DISCIPLINES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE

Discipline`s Name	TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE				
Didactic position, name and surname of the Discipline Coordinator	IOANA SOARE, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Course Coordinator	IOANA SOARE, M.D., Ph. D., Lecturer				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.17	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, Op -optional, F -facultative)			Op	No. of credits	2

No. of Hours per week	1	Out of which are Course hours:	1	Seminar / Practical Activity / Clinical Stage	0
Total of hours in the curriculum	14	Out of which are Course hours:	14	Seminar / Practical Activity / Clinical Stage	0
		Total hours per semester	50	Total hours of individual study	36

Distribution of time pool per week		Hours
1. Study of the course material		2

Distribution of time pool per week	Hours
2. Study according with the course support, manuals	2
3. Study of the minimal bibliography	4
4. Additional documentation in the library	2
5. Specific activity for the seminary or laboratory	2
6. Homework, translations, etc.	2
7. Preparing for different written exams	2
8. Preparing for oral examinations	2
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	2
12. Documentation from web sources, portals, wiki websites	2
13. Tutoring	2
14. Examinations	2
15. Other activities:	2

Course name	TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE
Specific professional competencies	<ul style="list-style-type: none"> Establishing acupuncture indications. General examination of the patient. Searching for acupuncture points on meridians. Deciding on the treatment formula, the local and remote acupuncture points, the number of sessions and their frequency. Choosing acupuncture needles. Learning the piercing method. Tracking effects. Evaluation of the patient after the acupuncture session, with feedback.
Transversal competencies	<ul style="list-style-type: none"> Use of information and communication technology, problem solving and decision-making, recognition and respect for diversity and multiculturalism.
General objectives of the discipline	<ul style="list-style-type: none"> Learning the acupuncture treatment method
Specific objectives of the discipline	<ul style="list-style-type: none"> Learning a new way of thinking and treatment, through acupuncture, characteristic of Chinese medicine, adapted to modern medicine

Course Syllabus	Hours
1. Presentation of the discipline sheet. Generalities regarding Chinese Medicine. Yin-Yang duality. The 5 elements.	1
2. General clinical examination. General indications of acupuncture.	1
3. Presentation of the acupuncture kit. Elements of labor protection in acupuncture.	1
4. Detailing the meridians from the upper limb	1
5. Detailing the meridians from the lower limb	1
6. Detailing the meridians on the dorsal side of the body	1
7. Detailing the meridians on the ventral face of the body	1
8. Acupuncture points in the head area	1
9. Microsystems in acupuncture (ear)	1
10. Low power laser therapy. Electroacupuncture.	1
11. Acupuncture pain therapy	1
12. Therapy of ENT conditions	1

Course Syllabus		Hours
13.	Lumbo-sciatica pain therapy	1
14.	REVIEW	1

Minimum References:
1.
2.
3.
4.

Correlation of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and representative employers in the health sector
- Regular updating by participating in national conferences and international congresses in the field, studying the current legislation and its changes.

How the information is transmitted	
Forms of activity	Teaching methods used
Course	<ul style="list-style-type: none"> Teaching based on printed materials, books in the field, stimulating curiosity by presenting the acupuncture kit and needles, the electrotherapy device, and the laser therapy device. Interactive hours with learning the general clinical examination, palpation of acupuncture points. Dialogue in the evaluation of the pre-existing knowledge of the Chinese medicine course.

Minimal performance standards – the minimum level of activities that need to be fulfilled by the student during the practical works to be accepted to the final laboratory exam:
<ul style="list-style-type: none"> Participation in 80% of the courses and attendance at periodic testing.

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60%
- Responses to the laboratory examination	0%
- Periodic checks with written exams	0%
- Continuous testing throughout the semester	20%
- Projects / Translations / Posters / Essays, etc.	0%
- Other activities: (active attendance at classes)	20%

Description of the actual methods of examination – E	
Minimal requirements for grade 5 (or how grade 5 is awarded)	Requirements for grade 10 (or how grade 10 is awarded)
<ul style="list-style-type: none"> Written exam - grid test 	
<ul style="list-style-type: none"> Knowledge of pairs of meridians, palpation of points, general clinical examination. 	<ul style="list-style-type: none"> Knowing the principles of traditional Chinese medicine, choosing, and carrying out the acupuncture treatment plan.

Date of completion

22.09.2021

Discipline Coordinator,

IOANA SOARE, M.D., Ph. D., Lecturer

Head of Department,

**DAN IOAN ULMEANU, Assoc. Professor, M.D.,
Ph. D.**

Course Coordinator,

IOANA SOARE, M.D., Ph. D., Lecturer

Laboratory Coordinator,

Department approval date

30.09.2021