



DISCIPLINE FILE

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

Discipline`s Name	GENERAL SURGERY (I)				
Didactic position, name and surname of the Discipline Coordinator	Assoc.Prof. Botea Florin, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Assoc.Prof. Botea Florin, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc.Prof. Botea Florin, MD, PhD Lecturer Romanescu Dragoş, MD, PhD				
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)	E9
Discipline Regime (M -mandatory, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	GENERAL SURGERY (I)
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to GENERAL SURGERY (I). • Identifying typical presentations, key findings and risk situations addressed in GENERAL SURGERY (I). • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of GENERAL SURGERY (I). • To develop understanding of clinical assessment and diagnostic reasoning relevant to GENERAL SURGERY (I). • To familiarize students with evidence-based management principles and patient-safety considerations in GENERAL SURGERY (I). • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in GENERAL SURGERY (I) and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe the main pathophysiology, clinical presentation, diagnostic principles and therapeutic options for common general surgical diseases and emergencies.
Skills	Perform a focused surgical history and examination, interpret basic laboratory/imaging data and formulate an initial diagnostic and management plan under supervision.
Responsibilities/ Autonomy	Integrate clinical findings in perioperative decision-making, prioritize urgent cases and ensure accurate documentation and patient safety under supervision.

Course Syllabus	Hours
Course #1. Acute Surgical Abdomen: Overview Definition and classification of acute abdomen syndromes. Diagnostic approach, clinical reasoning, and surgical decision-making. Differential diagnosis based on anatomical and etiological criteria.	2
Course #2. Non-Ischemic Intestinal Occlusions: Dynamic and Mechanical Pathophysiology and clinical presentation of dynamic (paralytic) and mechanical intestinal obstructions without ischemia. Diagnostic workup and principles of conservative and surgical management.	2
Course #3. Ischemic Mechanical Intestinal Occlusions Mechanisms and clinical implications of strangulated bowel obstruction. Diagnosis, intraoperative findings, and surgical treatment. Postoperative complications and outcomes.	2
Course #4. Entero-Mesenteric Infarction Etiology and pathogenesis of mesenteric vascular occlusion. Clinical forms, diagnostic delay, and emergency surgical interventions. Prognostic factors and postoperative follow-up.	2
Course #5. Acute Peritonitis: Overview and Pathophysiology Definition, classification, and mechanisms of peritoneal inflammation. Local and systemic responses to peritonitis. Routes of contamination and progression to sepsis.	2
Course #6. Generalized and Localized Acute Peritonitis Clinical forms of peritonitis by origin and extent. Diagnostic evaluation, imaging, and laboratory findings. Principles of surgical intervention and antimicrobial therapy.	2
Course #7. Acute Appendicitis Etiopathogenesis, clinical presentation, and diagnostic criteria of appendicitis. Surgical indications, intraoperative findings, and management of complicated cases (perforation, abscess, peritonitis).	2
Course #8. Upper Gastrointestinal Bleeding: Etiology and Diagnosis Causes of upper gastrointestinal hemorrhage. Pathophysiological mechanisms, classification, and symptomatology. Diagnostic tools including endoscopy and laboratory evaluation.	2
Course #9. Upper Gastrointestinal Bleeding: Emergency Treatment Therapeutic strategies for hemostasis including pharmacologic, endoscopic, and surgical	2

Course Syllabus	Hours
approaches. Comparison of classic and minimally invasive methods. Indications for emergency intervention.	
Course #10. Mechanical Jaundice: Etiology and Diagnostic Approach Pathogenesis and clinical presentation of obstructive jaundice. Anatomical and etiological classification. Preoperative imaging and intraoperative diagnostic methods.	2
Course #11. Mechanical Jaundice: Surgical and Minimally Invasive Treatment Overview of traditional and modern techniques in the management of obstructive jaundice. Surgical options and endoscopic or laparoscopic alternatives. Criteria for method selection.	2
Course #12. Portal Hypertension Etiology and hemodynamic changes associated with portal hypertension. Clinical manifestations and complications. Diagnostic imaging and therapeutic approaches including shunting procedures.	2
Course #13. Liver Cirrhosis Pathophysiology and progression of hepatic cirrhosis. Diagnostic criteria, clinical staging, and management of complications including ascites, variceal bleeding, and encephalopathy.	2
Course #14. Liver Transplantation Indications, contraindications, and selection criteria for liver transplantation. Overview of surgical techniques, immunosuppressive therapy, and post-transplant complications.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Technique of Presenting Clinical Cases in Surgery Structured methodology for surgical case presentation. Emphasis on clinical reasoning, diagnostic formulation, surgical indication, and therapeutic outcomes. Development of clarity and precision in clinical communication.	2
Laboratory Work #2. Preoperative Preparation and Postoperative Care Protocols for optimizing patients prior to surgery, including assessment of comorbidities and perioperative risk. Postoperative monitoring, complication prevention, pain control, and early mobilization strategies.	2
Laboratory Work #3. Surgical Risk Assessment and Anesthetic-Surgical Risk Scales Evaluation of systemic dysfunctions that impact surgical outcomes. Application of standardized scoring systems such as ASA, POSSUM, and risk stratification models in perioperative planning.	2
Laboratory Work #4. Surgical Bleeding and Transfusion Identification and management of intraoperative and postoperative hemorrhage. Indications for blood component therapy. Transfusion protocols and monitoring for complications.	2
Laboratory Work #5. Surgical Infections and Antibiotherapy Classification and clinical management of localized and systemic surgical infections. Principles of prophylactic and therapeutic antibiotic use. Resistance patterns and guidelines for rational antimicrobial therapy.	2
Laboratory Work #6. Upper and Lower Gastrointestinal Endoscopy. ERCP Indications, technique, and interpretation of diagnostic and therapeutic endoscopic procedures. Role of esophagogastroduodenoscopy, colonoscopy, and endoscopic retrograde cholangiopancreatography (ERCP) in surgical pathology.	2
Laboratory Work #7. Laparoscopic Surgery: Techniques and Principles Fundamentals of minimally invasive surgery. Principles of access, instrumentation, and procedural steps. Comparison with open surgical techniques in terms of indications, outcomes, and postoperative recovery.	2

Minimum References:

1. Williams NS, O’Connell PR, McCaskie AW, editors. **Bailey & Love’s short practice of surgery.** 27th ed. Boca Raton (FL): CRC Press; 2023.
2. Garden OJ, Parks RW, Wigmore SJ, editors. **Principles and practice of surgery.** 7th ed. Edinburgh: Elsevier; 2021.
3. Townsend CM Jr, Beauchamp RD, Evers BM, Mattox KL, editors. **Sabiston textbook of surgery: the biological basis of modern surgical practice.** 21st ed. Philadelphia: Elsevier; 2022.
4. Dehn TCB, Aspinall R. **Core topics in general and emergency surgery.** 6th ed. Boca Raton (FL): CRC Press; 2022.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

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Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

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Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

10.09.2025

Discipline Coordinator,
Assoc. Prof. Botea Florin

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Assoc.Prof. Botea Florin

Laboratory Coordinator,
Assoc.Prof. Botea Florin
Lecturer PhD Romanescu Dragoş

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	NEPHROLOGY				
Didactic position, name and surname of the Discipline Coordinator	Ungureanu Cătălin, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Ungureanu Cătălin, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Ungureanu Cătălin, MD, PhD				
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)	E9
Discipline Regime (M -mandatory, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	NEPHROLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to NEPHROLOGY. • Identifying typical presentations, key findings and risk situations addressed in NEPHROLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of NEPHROLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to NEPHROLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in NEPHROLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in NEPHROLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Explain renal physiology and the pathophysiology, diagnosis and treatment principles of acute and chronic kidney disease and major electrolyte/acid–base disorders.
Skills	Assess kidney function, interpret urinalysis and key biochemical parameters and initiate first-line measures for common nephrological emergencies under supervision.
Responsibilities/ Autonomy	Apply safe prescribing principles in renal impairment, escalate time-critical disorders and document/communicate care plans responsibly under supervision.

Course Syllabus	Hours
Course #1. Anatomy, Physiology, and Semiology of the Renal System Structural and functional overview of the kidneys, ureters, bladder, and associated vasculature. Physiological mechanisms of filtration, reabsorption, and excretion. Semiology of renal and urinary tract disorders.	2
Course #2. Glomerular Diseases Classification, pathophysiology, and clinical presentation of glomerulopathies. Nephritic and nephrotic syndromes, diagnostic approaches, and therapeutic principles.	2
Course #3. Tubulointerstitial and Vascular Nephropathies Etiology and clinical features of tubulointerstitial nephritis and vascular kidney diseases. Diagnostic markers and progression to chronic kidney damage. Treatment strategies and prevention.	2
Course #4. Acute Renovesical Infectious Pathology Clinical presentation, diagnosis, and management of acute infections of the kidneys and urinary tract. Pyelonephritis, cystitis, and related conditions. Role of imaging and laboratory tests.	2
Course #5. Chronic Renovesical Infectious Pathology Recurrent and chronic urinary tract infections and their impact on renal function. Diagnostic protocols, microbial resistance patterns, and long-term management.	2
Course #6. Renal Lithiasis Etiology, types, and pathophysiology of kidney stones. Clinical presentation, diagnostic imaging, and therapeutic options including dietary, pharmacological, and surgical interventions.	2
Course #7. Acute Renal Failure Classification of acute kidney injury (AKI) by etiology: prerenal, intrinsic, and postrenal. Diagnostic criteria, pathogenesis, and emergency management.	2
Course #8. Chronic Kidney Disease and Renal Suppletion Therapies Stages of chronic kidney disease (CKD), diagnostic evaluation, and progression monitoring. Overview of dialysis modalities and indications for renal transplantation.	2
Course #9. Renal Damage in Systemic Diseases (Diabetes, Hypertension) Mechanisms of kidney injury in diabetes mellitus and arterial hypertension. Screening, diagnosis, and management of diabetic nephropathy and hypertensive nephrosclerosis.	2

Course Syllabus	Hours
Course #10. Renal Damage in Autoimmune Diseases Renal involvement in systemic autoimmune disorders such as lupus nephritis, vasculitis, and scleroderma. Diagnostic tools and immunosuppressive treatment options.	2
Course #11. Acid-Base Balance Disorders Types and causes of acid-base disturbances. Diagnostic interpretation of arterial blood gases. Renal compensation mechanisms and therapeutic approaches.	2
Course #12. Benign Renovesical Tumors Epidemiology, diagnosis, and management of benign tumors of the kidneys and bladder. Imaging characteristics and criteria for surgical intervention or surveillance.	2
Course #13. Malignant Renovesical Tumors Clinical features and staging of renal cell carcinoma and bladder cancer. Diagnostic pathways, treatment options, and follow-up strategies.	2
Course #14. Renal Damage in Acute Systemic Intoxications Pathophysiology of nephrotoxicity due to acute poisoning. Common nephrotoxic agents, clinical manifestations, diagnostic approaches, and supportive treatment.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical and Paraclinical Examination in Nephrology Systematic evaluation of patients with renal pathology through history, physical examination, and relevant laboratory and imaging investigations. Emphasis on recognizing early signs of renal dysfunction.	2
Laboratory Work #2. Drafting the Monitoring Form for Patients with Nephrological Disease Structure and content of clinical documentation for nephrology patients. Recording disease progression, treatment response, and complications. Standardized formats and reporting protocols.	2
Laboratory Work #3. Interdisciplinary Consultations for Patients with Nephrological Disease Integration of nephrology care with other specialties such as cardiology, endocrinology, and infectious diseases. Case discussions and collaborative management approaches.	2
Laboratory Work #4. Principles of Treatment in Nephrology Overview of therapeutic strategies in renal pathology including fluid management, electrolyte correction, antihypertensive therapy, and immunosuppression. Individualization of treatment plans.	2
Laboratory Work #5. Treatment Control and Monitoring of Patients with Acute Renal Failure Monitoring fluid balance, electrolytes, and renal function in acute kidney injury. Adjustment of medication dosages and identification of reversible causes. Criteria for initiating renal replacement therapy.	2
Laboratory Work #6. Treatment Control and Monitoring of Patients with Chronic Kidney Disease Long-term management of CKD including blood pressure control, anemia correction, and bone metabolism regulation. Monitoring of glomerular filtration rate and proteinuria.	2
Laboratory Work #7. Treatment Control and Monitoring of Acid-Base Balance Disorders Assessment and correction of acidosis and alkalosis. Interpretation of blood gas results. Adjustment of therapy based on underlying etiology and renal compensatory mechanisms.	2
Laboratory Work #8. Renal Puncture-Biopsy: Applicability in Medical Practice Indications, contraindications, and technique of renal biopsy. Pre-procedural preparation, post-procedural care, and interpretation of histopathological findings.	2

Laboratory Syllabus	Hours
Laboratory Work #9. Treatment Control and Monitoring of Glomerular Diseases Evaluation of proteinuria, hematuria, and renal function in glomerulopathies. Monitoring therapeutic response to immunosuppressive agents and supportive measures.	2
Laboratory Work #10. Evaluation of Nephrological Pathology Associated with Systemic Diseases Assessment of renal involvement in diabetes, hypertension, autoimmune, and infectious diseases. Integrated diagnostic and therapeutic strategies.	2
Laboratory Work #11. Principles of Renovesical Ultrasound Technique and interpretation of ultrasonography for kidney and bladder assessment. Identification of structural abnormalities, obstruction, and volume changes.	2
Laboratory Work #12. Performing Intravenous Urography Preparation, execution, and interpretation of IV urography. Evaluation of renal excretion, anatomical anomalies, and obstructive uropathy.	2
Laboratory Work #13. Principles of ESWL in the Treatment of Renal Lithiasis Overview of extracorporeal shock wave lithotripsy. Indications, contraindications, procedural steps, and post-treatment monitoring.	2
Laboratory Work #14. Remote Monitoring of Patients with Chronic Kidney Disease Telemedicine strategies for follow-up of CKD patients. Use of digital tools to assess adherence, laboratory values, and early identification of complications.	2

Minimum References:
1. Turner NN, Lameire N, Goldsmith DJA, Winearls CG, Himmelfarb J, Remuzzi G, editors. Oxford textbook of clinical nephrology . 4th ed. Oxford: Oxford University Press; 2016.
2. Johnson RJ, Feehally J, Floege J, Tonelli M, editors. Comprehensive clinical nephrology . 7th ed. Philadelphia: Elsevier; 2024.
3. Kumar P, Clark M, editors. Kumar and Clark's clinical medicine . 10th ed. Edinburgh: Elsevier; 2020. <i>(Nephrology sections widely used in UK/EU undergraduate teaching)</i>
4. Taal MW, Chertow GM, Marsden PA, Skorecki K, Yu ASL, Brenner BM, editors. Brenner and Rector's the kidney . 11th ed. Philadelphia: Elsevier; 2020.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

10.09.2025

Discipline Coordinator,

Dr. Ungureanu Cătălin

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Dr. Ungureanu Cătălin

Laboratory Coordinator,

Dr. Ungureanu Cătălin

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	MEDICAL REHABILITATION				
Didactic position, name and surname of the Discipline Coordinator	Dr Tache-Codreanu Diana				
Didactic position, name and surname for the Course Coordinator	Dr Tache-Codreanu Diana				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Dr Tache-Codreanu Diana PhD Candidate Teoibaş Dorotheea				
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, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	MEDICAL REHABILITATION
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to MEDICAL REHABILITATION. • Identifying typical presentations, key findings and risk situations addressed in MEDICAL REHABILITATION. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of MEDICAL REHABILITATION. • To develop understanding of clinical assessment and diagnostic reasoning relevant to MEDICAL REHABILITATION. • To familiarize students with evidence-based management principles and patient-safety considerations in MEDICAL REHABILITATION. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in MEDICAL REHABILITATION and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe principles of functional assessment, disability and rehabilitation strategies after neurological, musculoskeletal and cardiopulmonary conditions.
Skills	Perform basic functional assessment and contribute to goal-oriented rehabilitation planning, including prevention of immobility-related complications under supervision.
Responsibilities/ Autonomy	Promote safety during mobilization, coordinate interdisciplinary referrals and document functional status and progress responsibly.

Course Syllabus	Hours
Course #1. Scope and Fundamentals of Recovery, Physical Medicine, and Balneology Definition and historical development of the specialty. Role of physical factors in prevention, treatment, and functional recovery. Therapeutic stages (early and late recovery), orientation in physical treatment prescriptions, balneal triage, and general contraindications to physical therapy.	2
Course #2. Physical Factors and Functional Recovery Methodologies Overview of balneology and balneoclimatotherapy. Therapeutic use of climate and weather, Romanian climatic regions and bioclimates. Applications of aerotherapy, heliotherapy, and field cures. Mineral waters: classification, physiological and therapeutic use (internal and external). Therapeutic muds (peloids): classification and application. Use of natural gases (mofettas). Principles and applications of hydrothermotherapy, electrotherapy, actinotherapy, and magnetotherapy. Definitions and clinical use of movement therapy (kinesiotherapy), massage (massotherapy), and pneumatotherapy.	2
Course #3. Locomotor System Pathology and Functional Recovery Rehabilitation of rheumatoid polyarthritis, seronegative spondyloarthropathies, and degenerative rheumatism: etiopathogenesis, pathophysiology, therapeutic objectives, and recovery techniques. Management of abarticular rheumatism, scapulohumeral periartthritis, myofascial syndrome, and fibromyalgia using physical and kinetic therapies.	2
Course #4. Spine Disorders and Rehabilitation Functional recovery strategies in spinal conditions such as kyphoscoliosis, acute torticollis, vertebral discopathy, spinal canal stenosis, and spondylolisthesis. Discussion of etiopathogenesis, physiopathology, and individualized rehabilitation protocols.	2
Course #5. Orthopedic-Surgical Conditions of the Limbs Rehabilitation following limb fractures and related complications including cutaneous, muscular, and nerve sequelae. Management of conditions such as algoneurodystrophy, femoral, tibial plateau, humeral, and radio-ulnar fractures. Recovery objectives, methods, and multidisciplinary approaches.	2
Course #6. Neurological Recovery Principles and practices in rehabilitating patients with post-stroke deficits and vertebro-medullary injuries. Functional deficits, therapeutic targets, and structured recovery plans integrating physical and occupational therapy.	2

Course Syllabus	Hours
Course #7. Cardiovascular Disease Rehabilitation Rehabilitation in ischemic heart disease and chronic peripheral vascular disease. Pathophysiology, goals of cardiovascular recovery, and integration of exercise, physical agents, and lifestyle modification into therapeutic programs.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Electrotherapy (I) Introduction to electrotherapy techniques. Principles of applying low-frequency currents, indications, contraindications, and patient preparation. Device operation and safety protocols.	2
Laboratory Work #2. Electrotherapy (II) Application of medium- and high-frequency currents. Clinical uses in pain control, muscle stimulation, and inflammation reduction. Parameter adjustment and individualized treatment planning.	2
Laboratory Work #3. Hydrothermotherapy (I) Basic techniques in water-based therapy. Use of thermal baths, affusions, and wraps. Indications and physiological effects on circulation, muscle tone, and pain.	2
Laboratory Work #4. Hydrothermotherapy (II) Advanced hydrotherapeutic procedures including contrast baths, underwater massage, and whirlpool therapy. Safety considerations and integration into rehabilitation programs.	2
Laboratory Work #5. Kinetotherapy (I) Assessment and development of individualized exercise programs. Active, passive, and resistive movement strategies for neuromuscular recovery and mobility enhancement.	2
Laboratory Work #6. Kinetotherapy (II) Application of kinetic therapy in chronic conditions. Use of equipment and therapeutic devices. Monitoring progress and adjusting therapeutic goals.	2
Laboratory Work #7. Massotherapy (I) Manual techniques for therapeutic massage. Effects on muscle relaxation, circulation, and pain relief. Clinical indications and patient positioning.	2
Laboratory Work #8. Massotherapy (II) Specialized massage techniques including segmental, reflex, and connective tissue massage. Integration with other physical therapy modalities.	2
Laboratory Work #9. Articular Balance Sheet (I) Evaluation of joint mobility and range of motion. Techniques for measuring active and passive movements. Identification of functional limitations.	2
Laboratory Work #10. Articular Balance Sheet (II) Documentation and monitoring of joint mobility over time. Use of goniometry and clinical interpretation in treatment planning.	2
Laboratory Work #11. Coordination of Balance and Sensitivity Exercises and assessments aimed at improving proprioception, static and dynamic balance, and sensory integration. Tools and techniques used in neurological and orthopedic rehabilitation.	2
Laboratory Work #12. Occupational Therapy Rehabilitation through purposeful activities to restore independence in daily living. Adaptation strategies for cognitive and motor impairments. Functional task simulations.	2
Laboratory Work #13. Respiratory Therapy Techniques (I) Methods for enhancing respiratory function including breathing exercises, postural drainage, and incentive spirometry. Indications in pulmonary and post-surgical rehabilitation.	2
Laboratory Work #14. Respiratory Therapy Techniques (II) Advanced respiratory rehabilitation strategies including assisted cough, PEP therapy, and chest physiotherapy. Integration with broader rehabilitation goals.	2

Minimum References:

1. Frontera WR, Silver JK, Rizzo TD Jr, editors. **Essentials of physical medicine and rehabilitation: musculoskeletal disorders, pain, and rehabilitation**. 4th ed. Philadelphia: Elsevier; 2022.
2. Barnes MP, Good DC, editors. **Neurological rehabilitation**. 2nd ed. Oxford: Wiley-Blackwell; 2019.
3. DeLisa JA, Gans BM, Walsh NE, Bockenek WL, Frontera WR, Geiringer SR, editors. **Physical medicine and rehabilitation: principles and practice**. 5th ed. Philadelphia: Wolters Kluwer; 2010.
4. Gutenbrunner C, Ward AB, Chamberlain MA, editors. **White book on physical and rehabilitation medicine in Europe**. 2nd ed. Leeds: European Society of Physical and Rehabilitation Medicine; 2018.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

10.09.2025

Discipline Coordinator,
Dr Tache-Codreanu Diana

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Dr Tache-Codreanu Diana

Laboratory Coordinator,
Dr Tache-Codreanu Diana
PhD Candidate Teoibaş Dorotheea

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer PhD Stana Dan				
Didactic position, name and surname for the Course Coordinator	Lecturer PhD Stana Dan				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer PhD Stana Dan				
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, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY. • Identifying typical presentations, key findings and risk situations addressed in PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY. • To familiarize students with evidence-based management principles and patient-safety considerations in PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY and recognize red flags requiring urgent escalation.

Course name	PLASTIC SURGERY AND RECONSTRUCTIVE MICROSURGERY
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe wound healing, tissue viability and the indications and principles of grafts, flaps and reconstructive microsurgery, including common complications.
Skills	Assess wounds and soft-tissue defects, including neurovascular status, and support perioperative and postoperative monitoring of reconstruction under supervision.
Responsibilities/ Autonomy	Recognize early warning signs of complications, escalate promptly and provide accurate documentation and patient instructions under supervision.

Course Syllabus	Hours
Course #1. Definition and History of Plastic Surgery Foundations of plastic surgery including skin grafting techniques: free skin grafts, pedicled and local flaps, and intersecting triangular flaps. Biological principles and clinical indications for homografts, heterografts, and allografts. Tissue transplantation of bone, cartilage, tendon, and fat: biological behavior, therapeutic uses, and outcomes.	2
Course #2. Principles and Basic Techniques in Plastic Surgery Application of fasciocutaneous and musculocutaneous flaps in reconstructive surgery: historical background, anatomical considerations, indications, and results. Techniques of free tissue transfer and principles of skin expansion.	2
Course #3. Burns and Frostbite – Part I Definition and classification of burn injuries. Clinical evaluation and therapeutic protocols including hydro-electrolytic resuscitation. Local and surgical treatment strategies, management of complications, and prevention of post-burn sequelae.	2
Course #4. Burns and Frostbite – Part II Detailed physiopathology, clinical presentation, and treatment of thermal, chemical, and electrical burns. Advances in tissue engineering and the clinical use of cultured skin.	2
Course #5. Elements of Hand Surgery – Part I Management of posttraumatic and post-burn sequelae of the hand. Etiopathology, clinical presentation, and surgical treatment of Dupuytren's disease.	2
Course #6. Elements of Hand Surgery – Part II Volkmann's ischemic contracture: clinical aspects and surgical intervention. Overview of congenital malformations of the upper limb and their corrective surgical management. Diagnosis and treatment of panaritium and hand phlegmons.	2
Course #7. Reconstructive Microsurgery – Part I Introduction to the concept and techniques of reconstructive microsurgery. Microsurgical approaches to vascular and peripheral nerve reconstruction, including the brachial plexus.	2
Course #8. Reconstructive Microsurgery – Part II Techniques of replantation and revascularization. Free transfer of composite tissues and principles of experimental microsurgery.	2

Course Syllabus	Hours
Course #9. Skin and Soft Tissue Oncology – Part I Clinical presentation, diagnosis, and management of benign vascular anomalies such as hemangiomas and lymphangiomas. Overview of precancerous dermatoses and their surgical implications.	2
Course #10. Skin and Soft Tissue Oncology – Part II Cutaneous malignancies including basal cell carcinoma, squamous cell carcinoma, malignant melanoma, and rare neoplasms. Principles of oncologic resection and reconstructive options.	2
Course #11. Scarring and Craniofacial Pathology – Part I Normal and pathological scarring: mechanisms, classification, and therapeutic strategies. Management of facial and cranial trauma with emphasis on reconstructive approaches.	2
Course #12. Scarring and Craniofacial Pathology – Part II Surgical correction of congenital craniofacial anomalies, particularly cleft lip and palate. Treatment of facial scarring and its functional and aesthetic implications.	2
Course #13. Extensive Acute Infections of the Skin and Subcutaneous Tissues Clinical features, diagnostic approach, and treatment of localized infections (abscess, furuncle, hidradenitis, lymphangitis). Management of diffuse and life-threatening infections such as cellulitis, phlegmon, necrotizing fasciitis, gas gangrene, and synergistic gangrene.	2
Course #14. Chronic Wound Management and Reconstructive Surgery Surgical strategies for managing pressure ulcers and chronic wounds. Techniques in breast reconstruction post-mastectomy and abdominal wall repair for hernias and eviscerations.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Examination of the Surgical Patient Systematic clinical evaluation of the upper and lower limbs, hand, and localized regions relevant to plastic surgery. Identification of functional and aesthetic impairments.	2
Laboratory Work #2. Tumor Assessment and Paraclinical Investigations Clinical examination of cutaneous and soft tissue tumors. Interpretation of imaging (X-ray, ultrasound, CT, MRI), electrical diagnostic studies, and screening tests for surgical planning and differential diagnosis.	2
Laboratory Work #3. Operative Indications and Postoperative Monitoring Establishing surgical indications. Postoperative surveillance including drainage output, creatine kinase levels, diuresis, flap viability, and revascularization monitoring protocols.	2
Laboratory Work #4. Postoperative Care and Adjunct Therapies Postoperative medication regimens, discharge guidelines, immobilization techniques, and dressing protocols. Scheduling of follow-up visits and introduction to adjunct therapies such as electrostimulation and physical rehabilitation.	2
Laboratory Work #5. Surgical Instruments and Anesthesia Familiarization with surgical instruments specific to plastic surgery. Types and techniques of local, regional, and general anesthesia. Principles of safe surgical excision.	2
Laboratory Work #6. Hemostasis, Suturing Techniques, and Wound Management Methods of achieving intraoperative hemostasis. Classification and application of sutures and suture materials. Management of contaminated wounds and bite injuries using the principle of delayed closure.	2
Laboratory Work #7. Hand Surgery Techniques Tendon repair (tenorrhaphy) for extensor injuries. Surgical decompression for carpal tunnel syndrome. Subtotal aponeurectomy in Dupuytren's disease. Diagnosis and treatment of hand infections.	2
Laboratory Work #8. Skin Grafts and Local Flaps Techniques of Z-plasty, local flap creation, nasolabial and frontal flaps, and pedicled flaps (e.g., Italian-style). Indications, planning, and postoperative care.	2

Laboratory Syllabus	Hours
Laboratory Work #9. Compartment Syndrome and Limb Reconstruction Recognition and surgical treatment of compartment syndrome and Volkmann's contracture. Use of fasciectomy and tissue expansion. Management of cicatricial sequelae and diabetic foot complications.	2
Laboratory Work #10. Regional Flap Techniques and Breast Reconstruction Harvesting and application of regional flaps including gastrocnemius, sural, and latissimus dorsi flaps. Reconstructive strategies for breast reconstruction post-mastectomy.	2
Laboratory Work #11. Microsurgical Nerve and Vascular Repair Microsurgical techniques for neurorrhaphy and arteriorrhaphy. Indirect coaptation techniques. Revascularization and replantation procedures. Principles of experimental microsurgery.	2
Laboratory Work #12. Free Tissue Transfer and Monitoring Harvesting and transfer of free flaps: radial, fibular, latissimus dorsi, DIEP, and ALT flaps. Intra- and postoperative monitoring protocols for microsurgically transferred tissues.	2
Laboratory Work #13. Oncologic Resection and Facial Reconstruction Principles of oncologic safety margins in tumor excision. Techniques for reconstructing the lower lip and performing parotidectomies, with emphasis on aesthetic and functional outcomes.	2
Laboratory Work #14. Head and Neck Reconstructions Cervical lymphadenectomy techniques. Microsurgical reconstruction of facial and lingual defects. Management of facial nerve palsy and techniques for dynamic smile restoration.	2

Minimum References:
1. Neligan PC, editor. Plastic surgery . 4th ed. London: Elsevier; 2018.
2. Wei FC, Mardini S. Flaps and reconstructive surgery . 2nd ed. London: Elsevier; 2017.
3. Mathes SJ, Hentz VR, editors. Plastic surgery . 2nd ed. Philadelphia: Saunders Elsevier; 2006.
4. Giele H, Butler PEM, Wood SH, editors. Principles and practice of burn surgery . London: CRC Press; 2018.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
• Multiple choice examination	
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

10.09.2025

Discipline Coordinator,
Lecturer PhD Stana Dan**Head of Department,**
Dan Ulmeanu, Assoc. Professor, M.D., PhD**Course Coordinator,**
Lecturer PhD Stana Dan**Laboratory Coordinator,**
Lecturer PhD Stana Dan**Department Approval Date**

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	MINIMALLY INVASIVE SURGERY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer PhD Kraft Alin				
Didactic position, name and surname for the Course Coordinator	Lecturer PhD Kraft Alin				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer PhD Kraft Alin Assoc.Prof. Ulmeanu Dan Ioan				
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, E -elective)			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					1
2. Study according with the course support, manuals					5
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	MINIMALLY INVASIVE SURGERY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to MINIMALLY INVASIVE SURGERY. • Identifying typical presentations, key findings and risk situations addressed in MINIMALLY INVASIVE SURGERY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of MINIMALLY INVASIVE SURGERY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to MINIMALLY INVASIVE SURGERY. • To familiarize students with evidence-based management principles and patient-safety considerations in MINIMALLY INVASIVE SURGERY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in MINIMALLY INVASIVE SURGERY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Explain principles of minimally invasive surgery, instrumentation and energy devices, patient selection and common complications.
Skills	Assist safely in minimally invasive procedures, apply sterile technique and support perioperative pathways relevant to MIS under supervision.
Responsibilities/ Autonomy	Maintain operating-room safety, recognize postoperative complications early and ensure accurate documentation under supervision.

Course Syllabus	Hours
Course #1. History and Evolution of Minimally Invasive Surgery Overview of the development of minimally invasive surgical techniques. Key historical milestones, technological advancements, and their impact on surgical practice and patient outcomes.	2
Course #2. Equipment and Devices Used in Minimally Invasive Surgery Presentation of laparoscopic and robotic surgical instruments, imaging systems, insufflation devices, energy platforms, and stapling systems. Safety protocols and ergonomic considerations.	2
Course #3. Minimally Invasive Approach to Esophageal Pathology Surgical management of esophageal diverticula, benign and malignant tumors, caustic injuries, and traumatic lesions. Techniques and benefits of thoracoscopic and laparoscopic approaches.	2
Course #4. Minimally Invasive Approach to the Esogastric Junction Management of hiatal hernias, achalasia, and tumors of the gastroesophageal junction. Diagnostic evaluation, selection of surgical technique, and postoperative outcomes.	2
Course #5. Minimally Invasive Approach in Pulmonary Pathology Use of thoracoscopy in the treatment of lung pathology including biopsies, lobectomies, and pleural procedures. Indications, contraindications, and technical considerations.	2
Course #6. Minimally Invasive Approach in Hepatobiliary Tree Pathology Laparoscopic and robotic approaches to biliary lithiasis, strictures, tumors, and management of iatrogenic injuries. Techniques in cholecystectomy, bile duct exploration, and repair.	2
Course #7. Minimally Invasive Approach in Liver Pathology Laparoscopic management of hepatic hydatid cysts, abscesses, and benign liver tumors. Surgical planning, intraoperative navigation, and management of complications.	2
Course #8. Minimally Invasive Approach in Pancreatic Pathology Treatment of pancreatic cystic lesions, pseudocysts, and tumors using laparoscopic or robotic techniques. Indications, operative strategies, and postoperative management.	2
Course #9. Minimally Invasive Approach in Small Intestine and Ileocecal Appendix Pathology Laparoscopic management of gastrointestinal stromal tumors, intussusceptions, and diverticula. Techniques in appendectomy and small bowel resections.	2
Course #10. Minimally Invasive Approach in Colorectal Pathology Surgical strategies for benign and malignant colorectal conditions using minimally invasive techniques. Indications, port placement, oncological safety, and enhanced recovery protocols.	2

Course Syllabus	Hours
Course #11. Minimally Invasive Approach in Benign Genital Pathology Laparoscopic treatment of adnexal cysts, uterine fibroids, and endometriosis. Surgical techniques, preservation of reproductive function, and fertility considerations.	2
Course #12. Minimally Invasive Approach in Retroperitoneal Pathology Techniques for accessing and managing retroperitoneal masses, lymphadenopathy, and vascular anomalies. Preoperative imaging, dissection approaches, and potential complications.	2
Course #13. Minimally Invasive Approach to Abdominal Parietal Defects Laparoscopic and robotic repair of hernias and abdominal wall defects. Mesh selection, fixation techniques, and postoperative outcomes.	2
Course #14. Minimally Invasive Approach in Metabolic Surgery Surgical management of obesity and metabolic syndrome. Laparoscopic techniques including sleeve gastrectomy and gastric bypass. Indications, outcomes, and multidisciplinary follow-up.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Instruments Specific to Minimally Invasive Surgery Identification and handling of laparoscopic instruments including graspers, dissectors, scissors, clip appliers, and camera systems. Principles of sterilization and ergonomic use.	2
Laboratory Work #2. Equipment Specific to Minimally Invasive Surgery Components of the laparoscopic tower: light source, insufflator, camera system, monitor, and energy platforms. Setup and troubleshooting procedures.	2
Laboratory Work #3. Electrosurgery in Minimally Invasive Interventions Use of monopolar and bipolar energy in laparoscopic surgery. Principles of tissue dissection and coagulation. Introduction to advanced vascular sealing systems (e.g., LigaSure, Harmonic).	2
Laboratory Work #4. Sutures Used in Minimally Invasive Surgery Types of sutures and needles adapted for laparoscopic use. Intracorporeal and extracorporeal knot-tying techniques. Use of barbed sutures and laparoscopic suturing devices.	2
Laboratory Work #5. Hemostasis in Minimally Invasive Surgery Techniques for achieving intraoperative hemostasis: mechanical, thermal, and topical agents. Use of clips, bipolar devices, and hemostatic materials.	2
Laboratory Work #6. Single-Incision Laparoscopic Surgery (SILS) Access and port placement strategies for SILS. Instrument triangulation and operative ergonomics. Indications and procedural limitations.	2
Laboratory Work #7. Robotic Surgery Approach Techniques Setup and docking of robotic surgical systems. Instrument exchange and console navigation. Procedural adaptation from conventional laparoscopy to robotic platforms.	2
Laboratory Work #8. Intraoperative Cholangiography Technique of catheterization and contrast injection during laparoscopic cholecystectomy. Indications, contraindications, interpretation of cholangiographic images, and procedural limitations.	2
Laboratory Work #9. Videocholedochoscopy Endoscopic exploration of the bile duct using laparoscopic choledochoscopy. Procedural steps, visualization techniques, stone retrieval, and limitations.	2
Laboratory Work #10. Endoscopic Retrograde Cholangiopancreatography (ERCP) Technique and instrumentation for ERCP. Indications and contraindications. Identification of common bile duct stones, strictures, and therapeutic interventions.	2
Laboratory Work #11. Thoracoscopy Port placement, lung deflation techniques, and exploration of the pleural cavity. Indications in diagnostic and therapeutic thoracic surgery. Instrument handling and procedural safety.	2

Laboratory Syllabus	Hours
Laboratory Work #12. Stapling Techniques in Minimally Invasive Surgery Introduction to linear and circular staplers. Application in gastrointestinal anastomoses and tissue transection. Cartridge selection and staple line integrity assessment.	2
Laboratory Work #13. Stapling and Assembly of Alloplastic Prosthetic Materials Techniques for fixing synthetic meshes in laparoscopic hernia repair. Choice of mesh type, fixation devices (tackers, sutures), and reinforcement strategies.	2
Laboratory Work #14. Gastro-Esophageal Prosthetic Assembly (GEPA) Mounting Technique Indications and technical steps in assembling and positioning prosthetic systems at the gastro-esophageal junction. Prevention of complications and postoperative monitoring.	2

Minimum References:
1. Agresta F, Arezzo A, Allaix ME, editors. Essentials of laparoscopic surgery . Cham: Springer; 2020.
2. Meinero P, editor. Textbook of minimally invasive surgery . Cham: Springer; 2020.
3. Rocco G, Batirel HF, Brunelli A, editors. Minimally invasive surgery: principles and outcomes . Cham: Springer; 2021.
4. Fuchs KH, Ruurda JP, editors. Robotic surgery: current applications and new trends . Cham: Springer; 2020.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

10.09.2025

Discipline Coordinator,

Lecturer PhD Kraft Alin

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Lecturer PhD Kraft Alin

Laboratory Coordinator,

Lecturer PhD Kraft Alin
Assoc.Prof. Ulmeanu Dan Ioan

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	RADIOLOGY AND MEDICAL IMAGING				
Didactic position, name and surname of the Discipline Coordinator	Cuzino Dragoș, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Cuzino Dragoș, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Cuzino Dragoș, MD, PhD				
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, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	RADIOLOGY AND MEDICAL IMAGING
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to RADIOLOGY AND MEDICAL IMAGING. • Identifying typical presentations, key findings and risk situations addressed in RADIOLOGY AND MEDICAL IMAGING. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of RADIOLOGY AND MEDICAL IMAGING. • To develop understanding of clinical assessment and diagnostic reasoning relevant to RADIOLOGY AND MEDICAL IMAGING. • To familiarize students with evidence-based management principles and patient-safety considerations in RADIOLOGY AND MEDICAL IMAGING. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in RADIOLOGY AND MEDICAL IMAGING and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe indications, basic principles and safety aspects of X-ray, CT, MRI and ultrasound, including contrast use and radiation protection.
Skills	Request appropriate imaging based on clinical questions, interpret reports in context and recognize urgent imaging findings requiring escalation under supervision.
Responsibilities/ Autonomy	Apply radiation/contrast safety measures, communicate priorities and ensure follow-up of results responsibly.

Course Syllabus	Hours
Course #1. Introductory Course Overview of radiology as a medical specialty. Historical evolution and fundamental concepts in medical imaging. Introduction to imaging modalities and their clinical applications.	2
Course #2. Current Imaging Techniques Presentation of diagnostic imaging methods: radioscopy, conventional radiography, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear medicine (scintigraphy). Principles of Roentgen radiation: generation, physical properties, biological effects, image acquisition, and radiation protection.	2
Course #3. Radiology of the Respiratory System Imaging protocols for thoracic assessment. Interpretation of chest X-rays including projection techniques and normal anatomical landmarks. Methodological approach to radiological analysis of the lungs and mediastinum.	2
Course #4. Acute Pneumopathies Radiographic characteristics of infectious pulmonary diseases: typical pneumonia, bronchopneumonia, atypical pneumonia, interstitial pneumonia, and pulmonary abscesses. Imaging appearance of bronchiectasis.	2
Course #5. Pulmonary Tuberculosis Radiological patterns of primary and secondary tuberculosis. Staging and differential diagnosis using conventional and advanced imaging techniques.	2
Course #6. Bronchopulmonary Tumors Imaging diagnosis of lung neoplasms. Radiographic signs, CT and MRI findings, and staging. Evaluation of tumor spread and interventional radiology in oncologic management.	2
Course #7. Mediastinal Tumors Imaging features of benign and malignant mediastinal masses. Anatomical compartments of the mediastinum and characteristic radiologic appearances. Role of CT and MRI in diagnosis and surgical planning.	2
Course #8. Radiology of the Heart and Great Vessels Evaluation of cardiac silhouette and mediastinal contours. Radiologic signs in valvular diseases, heart failure, and pericardial pathology. Assessment of pulmonary circulation and cardiac chamber enlargement.	2
Course #9. Imaging of the Esophagus Techniques for radiological evaluation of the esophagus: contrast studies, dilations,	2

Course Syllabus	Hours
identification of benign and malignant strictures, varices, and postoperative changes. Foreign body detection.	
Course #10. Hiatal Hernias and Reflux Esophagitis Radiological diagnosis of hiatal hernias and esophagitis. Examination of the normal and altered gastric position. Differentiation between sliding and paraesophageal hernias.	2
Course #11. Gastro-Duodenal Ulcer and Gastric Cancer Imaging characteristics of peptic ulcer disease and gastric malignancy. Techniques for detection, staging, and post-treatment surveillance. Role of double-contrast studies and CT.	2
Course #12. Imaging of the Duodenum, Pancreas, and Biliary System Radiologic and cross-sectional imaging of duodenal and pancreatic pathologies. Visualization of the biliary tree using ultrasound, CT, MRI, and ERCP. Imaging findings in cholestasis and neoplasms.	2
Course #13. Imaging of the Small Intestine and Colon Evaluation of intestinal transit, inflammatory diseases, obstruction, and neoplasms. Use of contrast-enhanced studies, CT enterography, and colon imaging techniques.	2
Course #14. Urinary System Imaging Basic radiologic evaluation of the kidneys and urinary tract. Use of urography and CT in detecting structural abnormalities, lithiasis, and neoplastic lesions.	2
Course #15. Imaging Diagnosis of Osteoarticular Pathology Radiologic approach to bone and joint diseases. Detection of fractures, degenerative changes, infections, tumors, and metabolic bone disorders using X-ray, CT, MRI, and nuclear medicine.	

Laboratory Syllabus	Hours
Laboratory Work #1. Chest X-Ray and Radiological Anatomy of the Thorax Identification of normal anatomical structures of the thorax, pleura, and lungs on conventional radiographs. Interpretation of projection views and anatomical variants.	2
Laboratory Work #2. Thoraco-Pleural Pathology Radiologic evaluation of pleural diseases including effusions, pneumothorax, pleural thickening, and empyema. Use of ultrasound and CT in pleural assessment.	2
Laboratory Work #3. Pulmonary Pathology Radiographic patterns of pulmonary disease including infections, neoplasms, interstitial lung disease, and pulmonary edema. Differential diagnosis based on imaging findings.	2
Laboratory Work #4. Mediastinal Pathology Assessment of mediastinal compartments for inflammatory processes, lymphadenopathy, and tumors. Imaging techniques include X-ray, CT, and MRI for diagnosis and staging.	2
Laboratory Work #5. Cardiac Imaging Interpretation of conventional cardiac radiographs. Introduction to angiographic techniques and endovascular treatment strategies for cardiac pathologies. Overview of cardiac silhouette analysis and pulmonary circulation assessment.	2
Laboratory Work #6. First Assessment Test Evaluation of knowledge and interpretation skills from the first practical module.	2
Laboratory Work #7. Abdominal and Pelvic Radiological Anatomy Review of normal imaging anatomy of the abdomen and pelvis using X-ray, ultrasound, and cross-sectional imaging. Orientation to organ topography and relationships.	2
Laboratory Work #8. Liver and Spleen Imaging Radiological, ultrasound, CT, and MRI examination of hepatic and splenic pathology. Visualization of tumors, cysts, hemolytic disease, and techniques in cryotherapy for liver lesions.	2

Laboratory Syllabus	Hours
Laboratory Work #9. Biliary and Pancreatic Imaging Evaluation of the biliary system and pancreas using ultrasound, MRCP, and CT. Diagnosis of cholelithiasis, cholangitis, pancreatitis, and tumors. Interventional radiology applications.	2
Laboratory Work #10. Renal Imaging Imaging of renal anatomy and pathology including urography, CT, MRI, and ultrasound. Identification of hydronephrosis, calculi, cysts, and tumors.	2
Laboratory Work #11. Intestinal and Lymph Node Pathology Radiographic and CT evaluation of the small and large bowel, colonic frame, and associated lymphadenopathy. Techniques for detecting obstruction, masses, and inflammatory disease.	2
Laboratory Work #12. Invasive and Endovascular Imaging Techniques of interventional radiology and endovascular imaging. Indications, contrast use, catheterization techniques, and post-procedural assessment.	2
Laboratory Work #13. Second Assessment Test Second test covering the practical imaging modules, including interpretation and clinical correlation.	2
Laboratory Work #14. Final Examination Comprehensive assessment of theoretical and practical competencies in radiology and medical imaging.	2

Minimum References:
1. Adam A, Dixon AK, Gillard JH, Schaefer-Prokop CM, editors. Grainger & Allison's diagnostic radiology: a textbook of medical imaging . 7th ed. Edinburgh: Elsevier; 2021.
2. Sutton D, Robinson PJ, Jenkins JPR, editors. Textbook of radiology and imaging . 7th ed. Edinburgh: Elsevier; 2020.
3. Westbrook C, Roth CK, Talbot J. MRI in practice . 5th ed. Chichester: Wiley-Blackwell; 2018.
4. European Society of Radiology. ESR essentials in radiology . Vienna: European Society of Radiology; 2020.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
• Multiple choice examination	
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
10.09.2025

Discipline Coordinator,
Dr Cuzino Dragoş

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Dr Cuzino Dragoş

Laboratory Coordinator,
Dr Cuzino Dragoş

Department Approval Date
25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	NEUROSURGERY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer PhD Benția Dan Razvan				
Didactic position, name and surname for the Course Coordinator	Lecturer PhD Benția Dan Razvan				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer PhD Benția Dan Razvan				
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, E -elective)			M	No. of credits	3

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					11
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	4
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	NEUROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to NEUROSURGERY. • Identifying typical presentations, key findings and risk situations addressed in NEUROSURGERY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of NEUROSURGERY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to NEUROSURGERY. • To familiarize students with evidence-based management principles and patient-safety considerations in NEUROSURGERY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in NEUROSURGERY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making.

	<ul style="list-style-type: none"> • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Explain the pathophysiology, clinical presentation and initial management principles of common neurosurgical emergencies and neurocritical care.
Skills	Perform a focused neurological assessment, interpret basic neuroimaging reports and initiate first-line stabilization measures under supervision.
Responsibilities/ Autonomy	Escalate time-critical conditions promptly, ensure safe monitoring and accurate documentation under supervision.

Course Syllabus	Hours
Course #1. Neurological and Neurosurgical Evaluation and Examination. Introduction to Neuroradiology Principles and techniques of clinical neurological assessment. Systematic neurosurgical examination. Fundamentals of neuroradiology: conventional imaging, CT, MRI, angiography, and functional imaging.	2
Course #2. Neurosurgical Investigations Diagnostic procedures in neurosurgery including imaging, lumbar puncture, intracranial pressure monitoring, EEG, electromyography, and neuropsychological testing. Indications, techniques, and clinical significance.	2
Course #3. Increased Intracranial Pressure and Hydrocephalus Pathophysiology, clinical presentation, and diagnostic approach to elevated intracranial pressure and hydrocephalus. Management strategies including medical therapy, ventricular drainage, and surgical interventions.	2
Course #4. Cranio-Cerebral Trauma Classification, pathophysiology, and clinical evaluation of traumatic brain injury. Imaging assessment, acute management protocols, neurosurgical interventions, and prognostic factors.	2
Course #5. Malignant Brain Tumors Etiology, classification, and clinical manifestations of primary malignant brain tumors (gliomas, medulloblastomas, etc.). Diagnostic imaging, surgical treatment, adjuvant therapies, and outcome predictors.	2
Course #6. Secondary Malignant Tumors: Brain and Spinal Metastases Pathways and mechanisms of metastatic spread to the brain and spine. Diagnosis, imaging characteristics, surgical options, radiosurgery, and systemic treatments.	2
Course #7. Benign Brain Tumors Clinical and imaging features of benign intracranial lesions (meningiomas, schwannomas, etc.). Indications for surgical intervention, minimally invasive techniques, and postoperative management.	2
Course #8. Pituitary and Cerebellopontine Angle Tumors Pathology, presentation, imaging, and management of pituitary adenomas and tumors of the cerebellopontine angle (acoustic neuromas, meningiomas). Surgical approaches, radiotherapy, and hormonal implications.	2
Course #9. Subarachnoid Hemorrhages Etiology, clinical features, diagnostic workup, and management of aneurysmal and non-aneurysmal subarachnoid hemorrhage. Principles of microsurgical clipping, endovascular coiling, and postoperative care.	2

Course Syllabus	Hours
Course #10. Developmental Abnormalities of the Skull and Spinal Cord Congenital anomalies including craniosynostosis, Chiari malformations, spina bifida, and tethered cord syndrome. Diagnostic evaluation, surgical correction, and long-term outcomes.	2
Course #11. Cerebral and Spinal Neuroinfections Clinical syndromes and imaging findings in CNS infections (meningitis, encephalitis, abscesses, spinal epidural infections). Management strategies including antimicrobial therapy and neurosurgical intervention.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Medical History Taking in Neurosurgery Structured approach to neurosurgical patient history collection. Emphasis on neurological symptoms, trauma history, and identification of red flags.	2
Laboratory Work #2. Clinical and Paraclinical Investigations in Neurosurgery Overview of diagnostic methods used in neurosurgery, including neurological assessment, lumbar puncture, and imaging modalities (CT, MRI, angiography). Interpretation of laboratory and imaging results.	2
Laboratory Work #3. Neurosurgical Clinical Examination Techniques for performing comprehensive neurological exams in neurosurgical contexts. Evaluation of motor function, sensory integrity, cranial nerves, reflexes, and coordination.	2
Laboratory Work #4. Introduction to the Operating Room Orientation to the neurosurgical operating room environment. Familiarization with standard surgical instruments, equipment, sterile techniques, and patient positioning.	2
Laboratory Work #5. Diagnosis and Treatment of Disc Herniation Clinical presentation, physical examination findings, and imaging characteristics of lumbar and cervical disc herniations. Indications and principles of conservative and surgical treatment methods.	2
Laboratory Work #6. Neurosurgical Emergencies Recognition and initial management of acute neurosurgical conditions including traumatic brain injury, spinal cord compression, subarachnoid hemorrhage, and acute hydrocephalus. Decision-making for urgent interventions.	2
Laboratory Work #7. Introduction to Brain Tumors and Treatment Fundamental principles of brain tumor diagnosis, imaging assessment, and surgical management. Overview of adjunctive therapies, postoperative monitoring, and patient follow-up.	2

Minimum References:
1. Moore AJ, Newell DW, editors. Neurosurgery: principles and practice . 2nd ed. Cham: Springer; 2022.
2. Crockard A, Hayward R, Hoff JT, editors. Neurosurgery: the scientific basis of clinical practice . 4th ed. Oxford: Blackwell Publishing; 2010.
3. Moore AJ, Newell DW, editors. Oxford textbook of neurological surgery . Oxford: Oxford University Press; 2020.
4. Greenberg MS. Handbook of neurosurgery . 9th ed. New York: Thieme; 2020.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

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Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

10.09.2025

Discipline Coordinator,
Lecturer PhD Benția Dan Razvan

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Lecturer PhD Benția Dan Razvan

Laboratory Coordinator,
Lecturer PhD Benția Dan Razvan

Department Approval Date
25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	ORAL AND MAXILLOFACIAL SURGERY				
Didactic position, name and surname of the Discipline Coordinator	Prof. Căruntu Ana, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Prof. Căruntu Ana, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Prof. Căruntu Ana, MD, PhD				
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)	V9
Discipline Regime (M -mandatory, E -elective)			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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	ORAL AND MAXILLOFACIAL SURGERY
Specific professional competencies	<ul style="list-style-type: none"> Understanding core concepts and principles relevant to ORAL AND MAXILLOFACIAL SURGERY. Identifying typical presentations, key findings and risk situations addressed in ORAL AND MAXILLOFACIAL SURGERY. Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> Development of analytical and critical thinking for structured clinical problem-solving. Effective communication in academic and clinical contexts, including structured handover. Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> To provide fundamental knowledge regarding the core scope of ORAL AND MAXILLOFACIAL SURGERY. To develop understanding of clinical assessment and diagnostic reasoning relevant to ORAL AND MAXILLOFACIAL SURGERY. To familiarize students with evidence-based management principles and patient-safety considerations in ORAL AND MAXILLOFACIAL SURGERY. To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> Identify common clinical presentations addressed in ORAL AND MAXILLOFACIAL SURGERY and recognize red flags requiring urgent escalation. Perform a focused history and physical examination appropriate to the discipline.

Course name	ORAL AND MAXILLOFACIAL SURGERY
	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe anatomy and pathology of the oral and maxillofacial region, principles of facial trauma care and management of odontogenic infections.
Skills	Assess facial trauma and infections, propose initial management and coordinate referral pathways under supervision.
Responsibilities/ Autonomy	Prioritize airway/sepsis risks, apply infection-control measures and document/communicate findings responsibly.

Course Syllabus	Hours
1. Odontogenic Sinusitis Etiopathogenesis, clinical presentation, and diagnosis of sinusitis originating from dental infections. Radiological evaluation and medical-surgical treatment strategies.	2
2. Oro-Sinus Communication Mechanisms leading to oro-antral fistulas. Diagnostic methods, management approaches, surgical closure techniques, and prevention of complications.	2
3. Management of Patients with Associated Cardiovascular Pathology Assessment and perioperative management of maxillofacial surgery patients with cardiovascular comorbidities. Risk stratification, medication adjustments, and surgical considerations.	2
4. Therapeutic Sequences in Oral and Maxillofacial Trauma Systematic approach to diagnosis, prioritization, and management of soft tissue and skeletal injuries of the facial region. Principles of definitive surgical intervention and reconstruction.	2
5. Evaluation of the Polytraumatized Patient Clinical examination, imaging, and stabilization protocols for maxillofacial injuries in the context of multiple trauma. Integration with multidisciplinary trauma care.	2
6. Chronic Adenitis Etiology, diagnostic work-up, and treatment of chronic inflammatory conditions affecting the lymph nodes in the head and neck region. Surgical indications and management strategies.	2
7. Diffuse Oral and Maxillofacial Suppurations Clinical features, diagnosis, and emergency treatment of extensive infectious processes such as oral floor phlegmon (Ludwig's angina) and hemifacial phlegmon. Indications for surgical drainage.	2
8. Osteonecrosis of the Jaws Induced by Anti-Osteoclastic Therapies (ARONJ) Pathophysiology, risk factors, diagnostic criteria, and clinical stages of medication-related osteonecrosis of the jaw. Therapeutic protocols and prevention strategies.	2
9. Early Diagnosis of Cancer in the Oral Cavity Screening methods, clinical signs, and diagnostic approaches for early detection of oral cavity malignancies. Biopsy techniques, pathological assessment, and referral pathways.	2
10. Prognostic Factors in Oral Cavity Neoplasms Factors influencing prognosis and survival in oral cancer patients. Clinical, pathological, and molecular indicators. Treatment outcomes and patient follow-up.	2

Course Syllabus	Hours
11. Skin Cancer: Diagnosis and Treatment Clinical evaluation and diagnosis of facial skin malignancies. Principles of surgical excision, reconstruction, and adjuvant therapies. Role of multidisciplinary care.	2
12. Acute Parotitis: Diagnosis and Treatment Etiopathogenesis, clinical features, and imaging in acute inflammatory conditions of the parotid gland. Medical and surgical management approaches.	2
13. Salivary Gland Tumors Classification, diagnostic techniques, and surgical treatment strategies for benign and malignant tumors of the salivary glands. Prognostic indicators and reconstructive options.	2
14. Salivary Gland Lithiasis Pathogenesis, clinical presentation, imaging diagnosis, and therapeutic management of obstructive salivary gland stones. Surgical approaches including minimally invasive techniques.	2

Minimum References:
1. Miloro M, Ghali GE, Larsen PE, Waite PD, editors. Peterson's principles of oral and maxillofacial surgery . 3rd ed. Shelton (CT): PMPH USA; 2022.
2. Brennan PA, Schilling C, Patel V, editors. Oxford handbook of oral and maxillofacial surgery . 2nd ed. Oxford: Oxford University Press; 2020.
3. Fonseca RJ, Barber HD, Powers MP, Frost DE, editors. Oral and maxillofacial trauma . 4th ed. St. Louis (MO): Elsevier; 2017.
4. Booth PW, Schendel SA, Hausamen JE, editors. Maxillofacial surgery . 3rd ed. Edinburgh: Churchill Livingstone Elsevier; 2007.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> • Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

10.09.2025

Discipline Coordinator,

Prof. Căruntu Ana

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Prof. Căruntu Ana

Laboratory Coordinator,

Prof. Căruntu Ana

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	SURGICAL MANOEUVRES SKILLS (2ND MODULE)				
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Ulmeanu Dan Ioan, MD, PhD				
Didactic position, name and surname for the Course Coordinator	-				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc. Prof. Ulmeanu Dan Ioan, MD, PhD Assoc. Prof. Potecă Teodor Dan, MD, PhD Lecturer Kraft Alin, MD, PhD				
Discipline Code	MLE.5.9.9	Formative category of the discipline		SS	
Year of Study	V	Semester	9	Type of the final evaluation (E, V)	V9
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					6
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	SURGICAL MANOEUVRES SKILLS (2ND MODULE)
Specific professional competencies	<ul style="list-style-type: none"> Understanding core concepts and principles relevant to SURGICAL MANOEUVRES SKILLS (2ND MODULE). Identifying typical presentations, key findings and risk situations addressed in SURGICAL MANOEUVRES SKILLS (2ND MODULE). Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> Development of analytical and critical thinking for structured clinical problem-solving. Effective communication in academic and clinical contexts, including structured handover. Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> To provide fundamental knowledge regarding the core scope of SURGICAL MANOEUVRES SKILLS (2ND MODULE). To develop understanding of clinical assessment and diagnostic reasoning relevant to SURGICAL MANOEUVRES SKILLS (2ND MODULE). To familiarize students with evidence-based management principles and patient-safety considerations in SURGICAL MANOEUVRES SKILLS (2ND MODULE). To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> Identify common clinical presentations addressed in SURGICAL MANOEUVRES SKILLS (2ND MODULE) and recognize red flags requiring urgent escalation.

Course name	SURGICAL MANOEUVRES SKILLS (2ND MODULE)
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe principles of asepsis, tissue handling, haemostasis and common surgical manoeuvres taught in the module, including potential complications.
Skills	Perform basic procedural skills (suturing, knot tying, basic haemostasis) safely in simulated/supervised settings and use instruments correctly.
Responsibilities/ Autonomy	Work within scope, use safety checklists and reflect on performance while documenting competence under supervision.

Laboratory Syllabus	Hours
Laboratory Work #1. Surgical Dressings Practical instruction in performing surgical wound dressings, types of dressing materials, application techniques, sterile technique, and wound-care management.	2
Laboratory Work #2. Asepsis and Antisepsis Hands-on training in principles and techniques of asepsis and antisepsis, proper sterilization methods, handwashing, surgical scrubbing, gowning, and gloving.	2
Laboratory Work #3. Technical Details of Laparoscopic Surgery and Diagnostic Laparoscopy Practical demonstration and instruction in fundamental techniques of diagnostic laparoscopy, including trocar placement, manipulation of laparoscopic instruments, and exploration of abdominal cavity.	2
Laboratory Work #4. Surgical Instruments for Classical Surgery Identification, handling, and practical application of standard surgical instruments used in open surgical procedures.	2
Laboratory Work #5. Surgical Instruments for Laparoscopic Surgery Practical training in identification, handling, assembly, and usage of specialized laparoscopic instruments.	2
Laboratory Work #6. Equipment Used in Laparoscopic Interventions Hands-on instruction in setting up and operating laparoscopic surgery equipment: image display systems, signal processing and storage units, lavage-suction devices, pneumoperitoneum insufflation devices, and electrosurgical platforms.	2
Laboratory Work #7. Wounds and Surgical Suturing Practical experience in wound assessment, classification, preparation, and various surgical suturing techniques. Understanding suture selection, knot tying, and wound closure principles.	2
Laboratory Work #8. Incision and Drainage Procedures Hands-on training for incision and drainage of superficial abscesses, including technique, anesthesia, drainage placement, and post-procedural care.	2
Laboratory Work #9. Bladder Catheterization Step-by-step practical instruction in urinary catheterization techniques, maintaining sterility, catheter management, and complication prevention.	2

Laboratory Syllabus	Hours
Labory Work #10. Interpretation of Radiological Investigations in Surgery Guided training in the interpretation of surgical diagnostic imaging: radioscopy, plain radiography, irrigography, and cholangiography. Recognition of normal anatomy and pathological findings.	2
Labory Work #11. Interpretation of Ultrasound Investigations in Surgery Practical instruction and hands-on training in interpreting surgical ultrasound imaging, including transabdominal, transvaginal, and Doppler ultrasound studies.	2
Labory Work #12. Diagnostic Endoscopic Investigations Practical exposure to diagnostic endoscopy techniques (upper GI endoscopy, lower GI endoscopy), including procedure preparation, instrument handling, and interpretation of findings.	2
Labory Work #13. Suture Techniques in Classical Surgery Hands-on practice with classical surgical suturing methods, including aponeurotic closure, skin closure, and gastrointestinal anastomoses. Techniques in knot tying, tension management, and suture selection.	2
Labory Work #14. Suture Techniques in Laparoscopic Surgery Practical instruction and training in laparoscopic suturing methods: intracorporeal and extracorporeal knot-tying techniques, and appropriate use of mechanical stapling devices for surgical tissue approximation.	2

Minimum References:
1. Bailey & Love's short practice of surgery. 27th ed. Bailey H, Love R, Bulstrode CJK, O'Connell PR, McCaskie AW. Boca Raton (FL): CRC Press; 2023.
2. Zollinger's atlas of surgical operations. 11th ed. McAninch JW, Lue TF, editors. New York: McGraw-Hill Education; 2020.
3. Core topics in general and emergency surgery. Dehn TCB, Aspinall R. 6th ed. Boca Raton (FL): CRC Press; 2022.
4. Fundamentals of surgical practice. Williams NS, Bulstrode CJK, O'Connell PR, editors. 2nd ed. London: CRC Press; 2018.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

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Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

10.09.2025

Discipline Coordinator,
Assoc.Prof. Ulmeanu Dan Ioan

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

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Laboratory Coordinator,
Assoc.Prof. Ulmeanu Dan Ioan
Assoc.Prof. Potecă Teodor Dan
Lecturer PhD Kraft Alin

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	GENERAL SURGERY (II)				
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Botea Florin, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Botea Florin, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Assoc. Prof. Botea Florin, MD, PhD Lecturer Romanescu Dragoş, MD, PhD				
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, E -elective)			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					1
2. Study according with the course support, manuals					5
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	GENERAL SURGERY (II)
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to GENERAL SURGERY (II). • Identifying typical presentations, key findings and risk situations addressed in GENERAL SURGERY (II). • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of GENERAL SURGERY (II). • To develop understanding of clinical assessment and diagnostic reasoning relevant to GENERAL SURGERY (II). • To familiarize students with evidence-based management principles and patient-safety considerations in GENERAL SURGERY (II). • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in GENERAL SURGERY (II) and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe advanced topics in general surgery, including oncologic principles, hernia and endocrine surgery, trauma/sepsis concepts and perioperative complications.
Skills	Analyze clinical data and support comprehensive management plans, including investigations and postoperative care, under supervision.
Responsibilities/ Autonomy	Identify complications early, ensure continuity of care and maintain ethical/legal standards and documentation under supervision.

Course Syllabus	Hours
Course #1. Benign Hepatic Tumors Clinical characteristics, diagnosis, and management of benign liver tumors including hemangiomas, adenomas, and focal nodular hyperplasia. Indications and techniques for surgical and non-surgical treatment.	2
Course #2. Primary Malignant Hepatic Tumors Epidemiology, diagnostic workup, staging, and surgical management of primary liver malignancies such as hepatocellular carcinoma and cholangiocarcinoma. Role of multidisciplinary approaches.	2
Course #3. Secondary Malignant Hepatic Tumors Etiology, imaging, and treatment strategies for liver metastases. Surgical resection criteria, indications for ablative procedures, and systemic therapies.	2
Course #4. Tumors of the Main Bile Duct Pathology, clinical presentation, diagnostic modalities, and surgical approaches to tumors involving the main bile duct. Management of biliary obstruction and reconstruction techniques.	2
Course #5. Bladder Cancer Clinical aspects, diagnostic procedures, staging, and surgical treatments of bladder malignancies. Multimodal therapeutic strategies including radical surgery and bladder-sparing options.	2
Course #6. Vaterian Ampulloma Clinical presentation, diagnosis, and treatment of ampullary tumors. Surgical interventions including pancreaticoduodenectomy (Whipple procedure) and endoscopic management options.	2
Course #7. Pancreatic Cancer Pathogenesis, diagnostic challenges, imaging, and therapeutic modalities in pancreatic adenocarcinoma. Surgical resection criteria, techniques, and postoperative management.	2
Course #8. Chronic Pancreatitis Clinical features, diagnostic evaluation, and therapeutic management of chronic pancreatitis. Indications for surgery, operative techniques, and management of complications.	2
Course #9. Esophageal Cancer Etiopathogenesis, clinical presentation, staging, and treatment approaches to esophageal malignancies. Principles of surgical resection, reconstruction methods, and multidisciplinary care.	2

Course Syllabus	Hours
Course #10. Gastric Cancer Epidemiology, diagnostic workup, staging systems, and surgical treatment of gastric malignancies. Techniques in gastrectomy, lymphadenectomy, and postoperative care.	2
Course #11. Hepatic Injuries Classification, diagnostic assessment, and therapeutic management of traumatic liver injuries. Indications for surgical intervention and non-operative management strategies.	2
Course #12. Splenic Injuries Clinical evaluation, imaging modalities, and decision-making in blunt and penetrating splenic trauma. Criteria for non-operative management versus splenectomy or splenic preservation techniques.	2
Course #13. Hypersplenism and Splenic Tumors Etiology, pathophysiology, clinical manifestations, and management options for hypersplenism. Diagnosis and treatment principles for benign and malignant splenic tumors.	2
Course #14. Robotic Surgery Principles, instrumentation, and clinical applications of robotic surgery in general and digestive surgery. Advantages, indications, and limitations compared to traditional laparoscopic or open procedures.	2

Laboratory Syllabus	Hours
Laboratory Work#1. Clinical Observation Form. Normal Blood and Urine Values Techniques for completing surgical clinical observation sheets. Interpretation of routine blood and urine laboratory parameters and their clinical significance.	2
Laboratory Work#2. Functional Exploration in Hepatobiliary Diseases Methods for assessing hepatobiliary function. Techniques including biochemical tests, imaging modalities (ultrasound, CT), and endoscopic investigations.	2
Laboratory Work#3. Diagnostic Techniques in Abdominal Viscera and Urinary System Pathology Practical application of diagnostic approaches for abdominal and urinary pathology, including physical examination, imaging methods, and laboratory tests. Identification of common pathologies.	2
Laboratory Work#4. Diagnostic Techniques in Mammary Gland and Thoracic Pathology Clinical assessment and diagnostic imaging of breast diseases and thoracic pathology. Hands-on practice in physical examination techniques, ultrasonography, mammography interpretation, and biopsy procedures.	2
Laboratory Work#5. Diagnostic Techniques in Arterial and Venous Pathology Clinical examination and imaging methods (Doppler ultrasound, angiography) for the assessment of vascular disorders. Diagnostic criteria for peripheral arterial disease and venous pathology.	2
Laboratory Work#6. Asepsis, Antisepsis, Dressings, and Swaddling Principles of surgical asepsis and antisepsis. Techniques for applying sterile dressings, wound care, bandaging, and immobilization.	2
Laboratory Work#7. Surgical Instruments and Technical Details in Laparoscopic Surgery Identification and handling of general surgical and laparoscopic instruments. Creation and management of pneumoperitoneum. Steps and principles of diagnostic laparoscopy.	2
Laboratory Work#8. Wounds, Surgical Sutures, Incision and Drainage, Bladder Catheterization Classification and management of surgical wounds. Practical techniques for performing skin and tissue sutures, incision and drainage of abscesses, and urinary bladder catheterization.	2
Laboratory Work#9. Interpretation of Radioscopy, Radiography, Irrigography, Ultrasonography, and Anorectal Exploration	2

Laboratory Syllabus	Hours
Practical interpretation of imaging studies relevant to surgical practice. Identification of anatomical structures and pathologies through radiologic, ultrasound, and endoscopic anorectal evaluations.	

Minimum References:
1. Williams NS, O'Connell PR, McCaskie AW, editors. Bailey & Love's short practice of surgery. 27th ed. Boca Raton (FL): CRC Press; 2023.
2. Garden OJ, Parks RW, Wigmore SJ, editors. Principles and practice of surgery. 7th ed. Edinburgh: Elsevier; 2021.
3. Townsend CM Jr, Beauchamp RD, Evers BM, Mattox KL, editors. Sabiston textbook of surgery: the biological basis of modern surgical practice. 21st ed. Philadelphia: Elsevier; 2022.
4. Dehn TCB, Aspinall R. Core topics in general and emergency surgery. 6th ed. Boca Raton (FL): CRC Press; 2022.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %

- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

10.09.2025

Discipline Coordinator,
Assoc.Prof. Botea Florin

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Assoc.Prof. Botea Florin

Laboratory Coordinator,
Assoc.Prof. Botea Florin
Lecturer PhD Romanescu Dragoş

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	CARDIOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Deaconu Silvia, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Deaconu Silvia, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Deaconu Silvia, MD, PhD Lecturer Munteanu Alice Elena, MD, PhD Lecturer Dumitrescu Silviu, MD, PhD				
Discipline Code	MLE.5.10.11	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	CARDIOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to CARDIOLOGY. • Identifying typical presentations, key findings and risk situations addressed in CARDIOLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of CARDIOLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to CARDIOLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in CARDIOLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in CARDIOLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Explain the pathophysiology, clinical manifestations and diagnostic principles of major cardiovascular diseases and acute cardiac syndromes.
Skills	Perform cardiovascular assessment, interpret ECG and key investigations and initiate first-line management for common acute presentations under supervision.
Responsibilities/Autonomy	Recognize life-threatening conditions, escalate promptly and document/communicate plans responsibly.

Course Syllabus	Hours
Course #1. Pulmonary Hypertension and Acute and Chronic Pulmonary Heart Pathophysiology, clinical presentation, and management of pulmonary hypertension. Focus on the progression to chronic pulmonary heart disease.	2
Course #2. Acute Joint Rheumatism. Rheumatic Carditis Overview of acute rheumatic fever, its connection to joint involvement, and the development of rheumatic carditis.	2
Course #3. Mitral, Aortic, Tricuspid, and Pulmonary Valvulopathies Examination of valvular diseases including mitral, aortic, tricuspid, and pulmonary valve disorders, their pathophysiology, and clinical implications.	2
Course #4. Infectious Endocarditis Clinical features, diagnostic approach, and treatment of infectious endocarditis. Focus on complications and management strategies.	2
Course #5. Rhythm and Conduction Disorders Overview of rhythm disturbances (e.g., atrial fibrillation, ventricular arrhythmias) and conduction abnormalities, with emphasis on diagnosis and treatment.	2
Course #6. Myocarditis. Dilated, Hypertrophic, and Restrictive Cardiomyopathies Pathophysiology and clinical presentation of myocarditis and various cardiomyopathies, including dilated, hypertrophic, and restrictive forms.	2
Course #7. Acute and Chronic Pericarditis. Tamponade of the Heart and Pericardial Constriction Study of pericarditis, including acute and chronic forms, and complications such as heart tamponade and pericardial constriction.	2
Course #8. Congenital Heart Malformations Clinical presentation, diagnosis, and management of congenital heart defects and malformations.	2
Course #9. Cardiovascular Risk Factors. Atherogenesis; Dyslipidemias Examination of key cardiovascular risk factors including atherogenesis and dyslipidemia, and their role in cardiovascular diseases.	2
Course #10. Stable Angina Pectoris; Chronic Ischemic Heart Disease; Silent Myocardial Ischemia Clinical features, diagnosis, and management of stable angina, chronic ischemic heart disease, and silent myocardial ischemia.	2

Course Syllabus	Hours
Course #11. Acute Coronary Syndromes: Unstable Angina; Acute Myocardial Infarction Overview of acute coronary syndrome, including unstable angina and acute myocardial infarction, with a focus on management strategies.	2
Course #12. High Blood Pressure. Hypertensive Emergencies Diagnosis, management, and treatment of hypertension, with particular emphasis on hypertensive emergencies.	2
Course #13. Heart Failure. Acute Pulmonary Edema Clinical approach to heart failure, including acute pulmonary edema, with discussion on etiology, diagnosis, and treatment options.	2
Course #14. Diseases of the Aorta and Peripheral Arteries. Venous Thrombosis and Chronic Venous Insufficiency Overview of vascular diseases affecting the aorta and peripheral arteries, along with venous thrombosis and chronic venous insufficiency.	1
Course #15. Diseases of Peripheral Veins Study of common peripheral venous disorders, including varicose veins and venous insufficiency, and their management.	1

Laboratory Syllabus	Hours
Laboratory Work #1. Drafting the Observation Sheet Representation of key clinical parameters (temperature, pulse, blood pressure, diuresis, etc.) for clinical documentation.	1
Laboratory Work #2. Blood Collection for Biochemical and Hematological Analysis Techniques for collecting blood for tests such as ESR, clotting time, APTT, bleeding time, and interpretation of normal values and results.	1
Laboratory Work #3. Knowledge of Normal Values for Hematological and Biochemical Constants Understanding and interpreting normal values of blood and urine constants, including analysis of conditions such as hyperlipoproteinemia, inflammatory syndromes, metabolic diseases, hepatopathies, and kidney diseases.	1
Laboratory Work #4. Interpretation of Microbiological Analysis Bulletins Methods for interpreting microbiological reports, including identifying pathogens and understanding results.	1
Laboratory Work #5. Pericardiocentesis Indications, contraindications, technique knowledge, result interpretation, and patient follow-up.	1
Laboratory Work #6. Arterial Puncture Indications and techniques for performing arterial puncture, including preparation and follow-up.	1
Laboratory Work #7. Venous Puncture (including Subclavian and Internal Jugular) Indications, technique knowledge, and interpretation of results for venous blood collection.	1
Laboratory Work #8. Oscillometry Understanding the technique of oscillometry and interpreting the results for blood pressure and pulse measurements.	1
Laboratory Work #9. Interpretation of Hematological Analysis Bulletins Analyzing results from hematological tests, including for anemias, leukosis, and coagulation disorders.	1
Laboratory Work #10. Interpretation of an X-ray (Heart and Lungs) Understanding how to interpret chest X-rays, focusing on heart and pulmonary structures.	1
Laboratory Work #11. Interpretation of Electrocardiograms (ECG) Knowledge of normal and pathological ECG interpretation, including heart rate, electrical axis, hypertrophies, arrhythmias, conduction disorders, and myocardial infarction.	1

Laboratory Syllabus	Hours
Laboratory Work #12. Interpretation of an Echocardiogram Techniques for interpreting echocardiograms to assess heart function and structure.	1
Laboratory Work #13. Cardiorespiratory Resuscitation Skills in external cardiac massage, mouth-to-mouth breathing, electrical shock techniques, intracardiac injection, knowledge of resuscitation medications, post-resuscitation care, and understanding resuscitation risks.	1
Laboratory Work #14. Electrical Cardioversion Indications, preparation, technique, complications, and contraindications of electrical shock for treating arrhythmias.	1
Laboratory Work #15. Carotid Sinus Massage Indications, contraindications, technique, and interpretation of results from carotid sinus massage to manage rhythm disorders.	1
Laboratory Work #16. Performing and Indications of Bleeding Practical aspects of bloodletting and when it is clinically indicated.	1
Laboratory Work #17. Hemoculture Technique for blood culture harvesting, including when to perform it and how to interpret the results.	1
Laboratory Work #18. Writing a Prescription Procedure for writing medical prescriptions, including details on drug name, dosage, and administration.	1
Laboratory Work #19. Recognition of Signs of Chronic Heart Failure How to recognize chronic heart failure symptoms and appropriate therapeutic management.	1
Laboratory Work #20. Evaluation of the Patient with Acute Pulmonary Edema Conducting an evaluation of acute pulmonary edema and appropriate emergency interventions.	1
Laboratory Work #21. Conduct in Front of Acute Coronary Syndrome Initial assessment and therapeutic approach for patients presenting with acute coronary syndrome.	1
Laboratory Work #22. Early Recognition of Acute Myocardial Infarction How to recognize early signs of acute myocardial infarction and treatment steps in the prehospital phase.	1
Laboratory Work #23. Diagnosis and Treatment of Angina Pectoris Diagnostic approach and therapeutic management of stable and unstable angina pectoris.	1
Laboratory Work #24. Initial Evaluation of Hypertensive Patients Diagnosis and emergency management in hypertensive crises and hypertensive emergencies.	1
Laboratory Work #25. Recognition of Signs of Deep Vein Thrombosis Identifying signs of deep vein thrombosis and determining the appropriate anticoagulant treatment and follow-up.	1
Laboratory Work #26. Acute Arterial Occlusion Recognition, early diagnosis, and therapeutic approach for acute arterial occlusion.	1
Laboratory Work #27. Diagnostic and Treatment Algorithm for Paroxysmal Rhythm Disturbances Algorithm for diagnosing and treating paroxysmal arrhythmias.	1
Laboratory Work #28. Practical Examination Assessment of practical skills and knowledge acquired during the course.	1

Minimum References:

1. ESC Scientific Document Group. **The ESC textbook of cardiovascular medicine**. 3rd ed. Oxford: Oxford University Press; 2019.

Minimum References:
2. Zipes DP, Libby P, Bonow RO, Mann DL, Tomaselli GF, Braunwald E, editors. Braunwald's heart disease: a textbook of cardiovascular medicine . 12th ed. Philadelphia: Elsevier; 2022.
3. Boon NA, Colledge NR, Walker BR, Hunter JAA, editors. Davidson's principles and practice of medicine . 24th ed. Edinburgh: Elsevier; 2022. (<i>Cardiology sections</i>)
4. Hampton JR. The ECG made easy . 9th ed. Edinburgh: Elsevier; 2019.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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	
<ul style="list-style-type: none"> Multiple choice examination 	
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 	<ul style="list-style-type: none"> According to the correction scale

- At least half of the topics must be correct

- At least 90% correct topics

Date of completion

10.09.2025

Discipline Coordinator,

Dr Deaconu Silvia

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Dr Deaconu Silvia

Laboratory Coordinator,

Dr Deaconu Silvia

Lecturer PhD Munteanu Alice Elena

Lecturer PhD Dumitrescu Silviu

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	GASTROENTEROLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer Constantin Alina, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lecturer PhD Constantin Alina, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer PhD Constantin Alina, MD, PhD				
Discipline Code	MLE.5.10.12	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			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
2. Study according with the course support, manuals					15
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.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	6
10. Consultations	2
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	8
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	GASTROENTEROLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to GASTROENTEROLOGY. • Identifying typical presentations, key findings and risk situations addressed in GASTROENTEROLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of GASTROENTEROLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to GASTROENTEROLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in GASTROENTEROLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in GASTROENTEROLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

Course name	GASTROENTEROLOGY
	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe mechanisms, clinical patterns and investigation principles of common gastrointestinal and hepatopancreatobiliary diseases, including emergency presentations.
Skills	Take a focused GI history, interpret key laboratory/imaging/endoscopy reports and propose initial management, including red-flag recognition, under supervision.
Responsibilities/ Autonomy	Escalate emergencies promptly, coordinate referrals and provide clear documentation and patient counselling responsibly.

Course Syllabus	Hours
Course #1. Clinical Evaluation of Digestive Signs and Symptoms Systematic approach to gastrointestinal symptoms including abdominal pain, dyspepsia, nausea, vomiting, diarrhea, constipation, and jaundice. Clinical history-taking, examination techniques, and symptom interpretation.	2
Course #2. Paraclinical Investigations in Gastroenterology Review of diagnostic modalities including laboratory tests, imaging studies (ultrasound, endoscopy, radiology, CT, MRI), and functional tests. Indications, interpretation, and clinical applications.	2
Course #3. Emergencies in Gastroenterology: Upper and Lower Gastrointestinal Hemorrhage Recognition, initial assessment, stabilization, and management of gastrointestinal bleeding. Diagnostic and therapeutic endoscopy, interventional radiology, and surgical considerations.	2
Course #4. Digestion, Intestinal Absorption, and Malabsorption Syndrome (Celiac Disease) Physiology of normal digestion and nutrient absorption. Pathophysiology, clinical manifestations, diagnostic evaluation, and management of celiac disease and other malabsorption syndromes.	2
Course #5. Functional Dyspeptic Syndromes, Chronic Constipation, and Chronic Diarrhea Clinical features, diagnosis, and therapeutic strategies for functional gastrointestinal disorders including dyspepsia, irritable bowel syndrome (IBS), chronic constipation, and chronic diarrhea.	2
Course #6. Gastroesophageal Reflux Disease, Reflux Esophagitis, and Achalasia Pathophysiology, clinical manifestations, diagnostic criteria, and management approaches in gastroesophageal reflux disease (GERD), reflux esophagitis, and esophageal motility disorders such as achalasia.	2
Course #7. Gastritis, Gastro-duodenal Ulcer, and Gastric Cancer Etiology, clinical presentation, diagnostic strategies, and treatment of gastritis, peptic ulcer disease, and gastric malignancies. Overview of Helicobacter pylori infection and its implications.	2
Course #8. Inflammatory Intestinal Diseases Pathogenesis, clinical presentation, diagnosis, and treatment of inflammatory bowel diseases	2

Course Syllabus	Hours
(IBD): Crohn's disease and ulcerative colitis. Discussion on medical, nutritional, and surgical management options.	
Course #9. Tumor Pathology of the Lower Digestive Tract Clinical presentation, diagnostic approaches, staging, and treatment options for colorectal cancer. Screening and preventive strategies, including endoscopic surveillance.	2
Course #10. Acute and Chronic Hepatitis Etiology, clinical features, diagnostic evaluation, and management of acute and chronic hepatitis. Discussion of viral hepatitis, autoimmune, alcoholic, and drug-induced liver injury.	2
Course #11. Liver Cirrhosis Pathophysiology, clinical stages, diagnosis, complications, and management strategies in liver cirrhosis. Principles of treatment, management of portal hypertension, ascites, and hepatic encephalopathy.	2
Course #12. Liver Tumors Clinical presentation, diagnostic imaging, biopsy techniques, and therapeutic strategies for benign and malignant liver tumors. Criteria for surgical resection, ablation, chemotherapy, and transplantation.	2
Course #13. Pathology of the Gallbladder and Bile Ducts Clinical features, diagnosis, and management of gallbladder and biliary tract disorders including cholelithiasis, cholecystitis, cholangitis, and biliary tract tumors.	2
Course #14. Acute Pancreatitis, Chronic Pancreatitis, and Pancreatic Tumors Pathophysiology, clinical presentation, diagnostic evaluation, and therapeutic management of acute and chronic pancreatitis. Overview of pancreatic tumor pathology including adenocarcinoma, cystic lesions, and neuroendocrine tumors.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Activity at the Patient's Bedside (I) Practical training in clinical evaluation of patients with gastrointestinal disorders. History taking, physical examination, symptom interpretation, and developing differential diagnoses.	2
Laboratory Work #2. Participation in Ultrasonographic Investigations Hands-on experience with abdominal ultrasound. Identification of normal and pathological images, recognizing liver, gallbladder, pancreatic, and intestinal disorders.	2
Laboratory Work #3. Interpretation of Laboratory Investigations Analysis and clinical correlation of laboratory data including hepatic function tests, pancreatic enzymes, inflammatory markers, serological tests, and markers of malabsorption.	2
Laboratory Work #4. Interpretation of Radiological Images Practical interpretation of standard radiographic images of the abdomen. Identification of gastrointestinal, hepatic, pancreatic, and biliary pathology.	2
Laboratory Work #5. Participation in Endoscopic Investigations Observation and participation in upper gastrointestinal endoscopy (gastroscopy) and lower gastrointestinal endoscopy (colonoscopy). Recognizing normal findings and common pathologies.	2
Laboratory Work #6. Interpretation of CT and MRI Investigations Review and analysis of computed tomography (CT) and magnetic resonance imaging (MRI) scans. Focus on diagnosing gastrointestinal, hepatic, pancreatic, and biliary disorders.	2
Laboratory Work #7. Clinical Activity at the Patient's Bedside (II) Advanced practical training focusing on integrated patient management, clinical reasoning, treatment planning, and follow-up care of patients with gastroenterological disorders.	2

Minimum References:

1. Travis SPL, Hawkey CJ, Danese S, editors. **Oxford textbook of clinical gastroenterology and hepatology**. 2nd ed. Oxford: Oxford University Press; 2022.
2. Feldman M, Friedman LS, Brandt LJ, editors. **Sleisenger and Fordtran's gastrointestinal and liver disease**. 11th ed. Philadelphia: Elsevier; 2021.
3. Ralston SH, Penman ID, Strachan MWJ, Hobson RP, editors. **Davidson's principles and practice of medicine**. 24th ed. Edinburgh: Elsevier; 2022.
4. McCance KL, Huether SE, Brashers VL, Rote NS. **Pathophysiology: the biologic basis for disease in adults and children**. 10th ed. St. Louis (MO): Elsevier; 2023.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

10.09.2025

Discipline Coordinator,
Lecturer PhD Constantin Alina

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Lecturer PhD Constantin Alina

Laboratory Coordinator,
Lecturer PhD Constantin Alina

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	DERMATOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer Muşetescu Alina Magdalena, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lecturer Muşetescu Alina Magdalena, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer Muşetescu Alina Magdalena, MD, PhD				
Discipline Code	MLE.5.10.13	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			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					1
2. Study according with the course support, manuals					5
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	DERMATOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to DERMATOLOGY. • Identifying typical presentations, key findings and risk situations addressed in DERMATOLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of DERMATOLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to DERMATOLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in DERMATOLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in DERMATOLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe structure and function of skin and the pathophysiology, diagnosis and treatment principles of common inflammatory, infectious and neoplastic dermatoses.
Skills	Perform a structured skin examination, describe lesions using standard terminology and identify red flags requiring urgent referral under supervision.
Responsibilities/ Autonomy	Ensure safe use and monitoring of dermatologic therapies and maintain accurate documentation and patient education responsibly.

Course Syllabus	Hours
Course #1. General Notions and Elementary Skin Lesions General appearance, histological structure of the skin (cellular components, layers, cytokines, growth factors, intercellular connections), basement membrane, and epidermal stem cells. Keratinocyte differentiation and barrier function. Pathogenesis and classification of elementary skin lesions.	2
Course #2. Pyoderma and Cutaneous Viral Infections Overview of skin infections and normal skin flora. Etiopathogenesis, clinical presentation, and treatment of bacterial skin infections (staphylococcal: folliculitis, furuncle, impetigo; streptococcal: erysipelas, cellulitis). Viral infections including epidermopoxvirus (warts, venereal vegetations), herpes infections, zona zoster, and aphthous ulcers.	2
Course #3. Mycoses and Parasitic Infections Classification, pathogenic agents, and clinical aspects of superficial and deep skin mycoses (dermatophytoses, candidiasis, pityriasis versicolor). Systemic mycoses. Parasitic infections (scabies, pediculosis, Lyme disease) and insect-related dermatologic injuries.	2
Course #4. Psoriasis and Related Dermatoses Etiopathogenesis, clinical presentation, and management of psoriasis. Related dermatoses including pityriasis rosea, eczema, lichen planus, scleroderma, parapsoriasis, and cutaneous sarcoidosis.	2
Course #5. Allergic Skin Diseases Fundamentals of dermatologic allergology and immunology. Pathophysiology, clinical manifestations, and therapeutic management of urticaria, Quincke edema, anaphylaxis, drug reactions, contact dermatitis, atopic dermatitis, polymorphic erythema, Stevens-Johnson syndrome, and toxic epidermal necrolysis (Lyell syndrome).	2
Course #6. Autoimmune and Connective Tissue Diseases Clinical features, diagnosis, and treatment of autoimmune disorders affecting skin and connective tissues, including systemic lupus erythematosus, scleroderma, dermatomyositis, Sjögren's syndrome, and vasculitides. Approach to pruritus.	2
Course #7. Bullous Disorders and Metabolic Skin Conditions Pathogenesis and clinical characteristics of bullous dermatoses (pemphigus vulgaris, bullous pemphigoid, dermatitis herpetiformis). Dermatologic manifestations of metabolic disorders (porphyrias, diabetes, cutaneous calcinosis). Pigmentation disorders (vitiligo, hyperpigmentation).	2

Course Syllabus	Hours
Course #8. Skin Purpura, Seborrheic Syndrome, and Vascular Dermatoses Mastocytosis and purpuric skin disorders. Clinical evaluation and management of seborrheic conditions (rosacea, seborrheic dermatitis, acne vulgaris). Cutaneous manifestations of chronic venous insufficiency (varicose veins, stasis dermatitis, ulcers). Hair and nail disorders.	2
Course #9. Precancerous Skin Lesions Definition and histopathology of precancerous lesions, Bowen's disease, Paget's disease, leukoplakia, and lesions caused by physical/chemical agents (actinic keratosis, radiodermatitis). Melanocytic nevi: clinical and histological features, criteria for malignancy, and management.	2
Course #10. Benign Skin Tumors Clinical features and treatment of benign cutaneous tumors: epithelial tumors (epidermal nevus, seborrheic keratosis), glandular tumors (sebaceous adenomas, sweat gland tumors), connective tissue tumors (fibromas, keloids, leiomyomas), cystic and vascular tumors (angiomas, lymphangiomas, angiokeratomas), keratoacanthomas, and Kaposi's sarcoma.	2
Course #11. Malignant Skin Tumors Etiopathogenesis, clinical presentation, diagnosis, and management of malignant skin tumors including basal cell carcinoma, squamous cell carcinoma, malignant melanoma, cutaneous sarcomas, mycosis fungoides, and metastatic skin lesions. Emphasis on early detection, treatment modalities, and preventive strategies.	2
Course #12. Sexually Transmitted Diseases (Part I): Syphilis Etiology, epidemiology, pathophysiology, clinical stages, and diagnostic tests (serologic methods) of syphilis. Penicillin-based treatment, management of complications, and epidemiological considerations.	2
Course #13. Sexually Transmitted Diseases (Part II): Gonococcal and Non-Gonococcal Urethritis Clinical manifestations, diagnosis, treatment, and complications of gonococcal infections. Chlamydia, Reiter's syndrome, lymphogranuloma venereum, trichomoniasis, and non-gonococcal urethritis. Dermatological manifestations of HIV infection.	2
Course #14. Hereditary Skin Disorders Clinical and genetic features of hereditary dermatological conditions including ichthyosis, palmo-plantar keratodermas, follicular dyskeratosis, epidermolysis bullosa, xeroderma pigmentosum, Recklinghausen's disease, Bourneville's tuberous sclerosis, cutaneous amyloidosis, and albinism.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Case Presentation and Dermatological Examination Presentation and detailed analysis of dermatological cases (ambulatory and inpatient). Identification of elementary lesions: clinical, histological, and pathophysiological characteristics. Practical instruction in performing a systematic dermatological clinical examination.	2
Laboratory Work #2. Pyoderma and Viral Skin Infections Case studies on pyoderma and viral dermatologic diseases. Techniques for bacteriological examination, management of purulent collections, and local treatments in herpes zoster. Demonstration and practical use of electrocautery (indications, technique, complications) for treatment of viral papillomas.	2
Laboratory Work #3. Cutaneous Mycoses and Parasitic Skin Disorders Practical case presentations for mycotic and parasitic infections. Direct microscopic examination, culture methods on enriched media, antifungal susceptibility testing, and ultraviolet examination. Direct parasitological examination techniques for scabies lesions, topical anti-parasitic treatment.	2

Laboratory Syllabus	Hours
Laboratory Work #4. Psoriasis and Erythematous-Scaly Dermatoses Clinical case analysis of psoriasis and related dermatoses. Instruction in topical corticosteroid use (indications, potency grading, side effects), occlusive dressing techniques, PUVA phototherapy, and cryotherapy application (indications, technique, outcomes).	2
Laboratory Work #5. Allergic Skin Diseases Case presentations emphasizing allergic dermatologic disorders. Practical training in performing and interpreting skin tests, epicutaneous patch tests, and allergy-related laboratory tests. Patient counseling for skin allergy management and prevention.	2
Laboratory Work #6. Autoimmune Dermatological Diseases Clinical case studies in autoimmune disorders with dermatological manifestations. Practical interpretation of immunofluorescence imaging, immunological findings in lupus erythematosus, and corresponding therapeutic approaches.	2
Laboratory Work #7. Bullous Disorders and Cutaneous Vasculitis Presentation of cases demonstrating bullous diseases and vasculitis. Practical training in cytological diagnosis of pemphigus vulgaris, interpretation of immunofluorescence findings, and topical therapies for bullous skin disorders.	2
Laboratory Work #8. Purpuric Syndromes, Venous Insufficiency, Seborrheic Syndromes, and Hair/Nail Disorders Clinical case analysis and therapeutic techniques for purpura, pigmentation disorders, chronic venous insufficiency (leg ulcers, compression bandages, dressings), seborrheic skin conditions (sebum quantification, pH measurement). Therapeutic methods for hair and nail conditions including supportive care and hair removal.	2
Laboratory Work #9. Precancerous Skin Lesions Case studies on precancerous skin conditions. Practical introduction to laser therapy (principles, indications, CO ₂ and vascular lasers). Dermoscopy techniques, indications, limitations, and interpretation for nevus evaluation.	2
Laboratory Work #10. Benign Skin Tumors and Photodynamic Therapy Clinical presentations and practical exercises in the biopsy and excision of benign skin tumors. Introduction to alternative therapeutic methods, including photodynamic therapy.	2
Laboratory Work #11. Malignant Skin Tumors Case presentations focusing on malignant skin neoplasms. Hands-on training in surgical excision procedures, alternative therapies for non-melanoma skin cancers, and specific treatment protocols for melanoma management.	2
Laboratory Work #12. Syphilis: Clinical, Serological, and Epidemiological Evaluation Case analysis of syphilitic infection stages. Practical interpretation of serological test results, techniques for epidemiological investigation, and counseling strategies for patients with sexually transmitted infections.	2
Laboratory Work #13. Gonococcal and Chlamydial Infections, HIV Counseling Clinical presentations of gonococcal urethritis and chlamydial infections. Practical techniques in bacteriological examination, interpretation of serological findings, and patient counseling strategies for HIV-positive patients.	2
Laboratory Work #14. Genetic Skin Disorders Clinical evaluation of hereditary dermatological conditions, with emphasis on local therapy for epidermolysis bullosa. Practical aspects of genetic counseling and testing relevant to dermatology practice.	2

Minimum References:

1. Griffiths CEM, Barker J, Bleiker T, Chalmers R, Creamer D, editors. **Rook's textbook of dermatology**. 10th ed. Hoboken (NJ): Wiley-Blackwell; 2023.
2. Bologna JL, Schaffer JV, Cerroni L. **Dermatology**. 4th ed. Philadelphia: Elsevier; 2018.

Minimum References:
3. Burns T, Breathnach S, Cox N, Griffiths C, editors. Rook's concise textbook of dermatology . 2nd ed. Hoboken (NJ): Wiley-Blackwell; 2021.
4. Gawkrödger DJ, Ardern-Jones MR. Dermatology: an illustrated colour text . 6th ed. Edinburgh: Elsevier; 2021.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> • Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E	
<ul style="list-style-type: none"> • Multiple choice examination 	
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

11.09.2025

Discipline Coordinator,

Lecturer PhD Muşetescu Alina Magdalena

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Lecturer PhD Muşetescu Alina Magdalena

Laboratory Coordinator,

Lecturer PhD Muşetescu Alina Magdalena

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	UROLOGY				
Didactic position, name and surname of the Discipline Coordinator	Lecturer Merticariu Mircea, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Lecturer Merticariu Mircea, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer Merticariu Mircea, MD, PhD Prof. Habil Cauni Victor, MD, PhD				
Discipline Code	MLE.5.10.14	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			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					1
2. Study according with the course support, manuals					5
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	0
8. Preparing for oral examinations	0
9. Preparing for the final examination	2
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	3
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	DERMATOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to DERMATOLOGY. • Identifying typical presentations, key findings and risk situations addressed in DERMATOLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of DERMATOLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to DERMATOLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in DERMATOLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in DERMATOLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

Course name	DERMATOLOGY
	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Explain urinary tract anatomy/physiology and the pathophysiology, diagnosis and treatment principles of common urological conditions and emergencies.
Skills	Assess urological symptoms, interpret urinalysis and relevant imaging and initiate first-line management for common acute presentations under supervision.
Responsibilities/ Autonomy	Recognize and escalate emergencies promptly, ensure safe catheter care and document/coordinate follow-up responsibly.

Course Syllabus	Hours
Course #1. Urological Semiology and Urinary Symptoms General clinical manifestations of urological disorders. Identification and characterization of urination disorders and qualitative changes in urine. Clinical significance of hematuria, pyuria, dysuria, polyuria, and oliguria.	2
Course #2. Clinical Examination of the Urological Patient Systematic clinical examination techniques specific to the urogenital system across various anatomical regions (kidneys, bladder, prostate, testes, penis, and external genitalia). Identification of normal and pathological findings.	2
Course #3. Urological Paraclinical Investigations Overview of laboratory tests including urinalysis, renal function tests, and markers of urological pathology. Introduction to imaging modalities used in urology (ultrasound, intravenous urography, CT urography, MRI, cystoscopy).	2
Course #4. Non-specific Infections of the Urogenital System Etiology, clinical presentation, diagnosis, and management of nonspecific urinary infections: cystitis, acute pyelonephritis, pyonephrosis, perinephric abscess, and perirenal phlegmon. Antimicrobial treatment and surgical indications.	2
Course #5. Specific Urinary Infections: Urogenital Tuberculosis Etiopathogenesis, clinical signs, diagnostic approach, and therapeutic management of urogenital tuberculosis. Review of antituberculous treatment regimens and surgical indications.	2
Course #6. Urinary Tract Lithiasis Pathogenesis and risk factors of urinary lithiasis. Clinical manifestations, complications, imaging evaluation, and comprehensive therapeutic protocols including conservative, interventional, and surgical approaches.	2
Course #7. Renal Failure of Urological Origin Etiology, clinical presentation, diagnostic evaluation, and treatment of acute and chronic renal failure secondary to urological disorders. Identification of obstructive nephropathy and indications for emergent decompression.	2
Course #8. Renal Tumors Clinical characteristics, diagnosis, staging, and therapeutic management of benign and malignant renal tumors. Focus on renal cell carcinoma and pediatric renal parenchymal tumors (Wilms tumor).	2

Course Syllabus	Hours
Course #9. Tumors of the Upper Urinary Tract Clinical presentation, diagnosis, staging, and treatment strategies for tumors of the renal pelvis and ureters. Surgical management and endoscopic treatment options.	2
Course #10. Benign Prostatic Hyperplasia (BPH) Etiopathogenesis, pathophysiology, clinical manifestations, diagnostic approach, and current therapeutic strategies (medical therapy, minimally invasive treatments, surgical interventions) in benign prostatic enlargement.	2
Course #11. Prostate Cancer Epidemiology, etiology, clinical and pathological features, TNM staging system, and diagnostic work-up for prostate cancer. Therapeutic modalities including surgery, radiotherapy, hormonal therapy, and emerging treatments.	2
Course #12. Testicular Tumors Etiology, clinical manifestations, diagnostic evaluation, staging, and contemporary therapeutic approaches (surgical, chemotherapy, radiotherapy) for testicular neoplasms.	2
Course #13. Pathology of the Scrotum and Spermatic Cord Anatomical review, congenital anomalies, inflammatory conditions, scrotal trauma, spermatic cord torsion, and inguinal hernias. Diagnostic evaluation and therapeutic management of acute scrotal conditions.	2
Course #14. Trauma of the Urogenital System Classification, clinical features, and management of urogenital trauma involving kidneys, ureters, bladder, urethra, and external genitalia. Diagnostic imaging techniques and surgical approaches.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Examination and Urinary Symptoms Practical training in detailed urological history-taking with a focus on symptoms related to urination. Identification, description, and interpretation of dysuria, frequency, urgency, hematuria, and retention.	2
Laboratory Work #2. Objective Examination Techniques in Urology Hands-on instruction in systematic clinical examination techniques for urological patients. Examination methods for kidneys, bladder, prostate, testicles, and external genitalia.	2
Laboratory Work #3. Specific Urological Examinations and Maneuvers Practical demonstration and training in specific urological maneuvers, including prostate palpation, testicular examination, catheterization, and bladder percussion.	2
Laboratory Work #4. Urine Collection and Urinalysis Techniques for correct urine collection (standard, midstream, sterile), preservation, and handling for routine laboratory analysis. Interpretation of urine analysis findings.	2
Laboratory Work #5. Bacteriological Examination and Koch Bacillus Detection Practical laboratory skills for bacteriological culture and analysis of urine samples. Identification methods for urinary pathogens, including specific techniques for the detection of Koch bacillus.	2
Laboratory Work #6. Ultrasonography of the Urinary System Introduction and practical training in performing and interpreting urinary tract ultrasonography. Identification of normal anatomy, renal anomalies, stones, and obstructive pathology.	2
Laboratory Work #7. Radiological Exploration of the Urinary System Practical interpretation of radiographic images, intravenous urography, retrograde pyelography, and other standard urological radiological studies. Recognition of pathological findings.	2
Laboratory Work #8. Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) in Urology	2

Laboratory Syllabus	Hours
Hands-on review and interpretation of urological CT and MRI images. Clinical applications, advantages, and limitations of cross-sectional imaging for diagnosing urological diseases.	
Laboratory Work #9. Radioisotope Explorations in Urology Demonstration and interpretation of radioisotope renal scans. Indications, procedural techniques, and diagnostic importance in assessing renal function and obstruction.	2
Laboratory Work #10. Endoscopic Investigation and Intervention in Urology Practical familiarity with endoscopic instruments and procedures (cystoscopy, ureteroscopy). Hands-on training in endoscopic techniques and therapeutic interventions.	2
Laboratory Work #11. Urodynamic Studies Conduct and interpretation of urodynamic investigations (uroflowmetry, cystometry, pressure-flow studies). Clinical indications and applications for various urinary disorders.	2
Laboratory Work #12. Extracorporeal Shock Wave Lithotripsy (ESWL) Demonstration and principles of ESWL technique. Indications, patient preparation, procedure performance, and post-procedural care and evaluation.	2
Laboratory Work #13. Laparoscopic and Robotic Surgery in Urology Practical overview and demonstration of minimally invasive surgical techniques, including laparoscopic and robotic procedures. Familiarization with instruments, operative setup, and technique basics.	2
Laboratory Work #14. Renal Dialysis and Accessory Tools in Urology Introduction to renal dialysis methods (hemodialysis, peritoneal dialysis), including equipment operation and patient care principles. Overview of accessory tools commonly used in urological practice.	2

Minimum References:
1. Oxford textbook of urology. 2nd ed. Wein AJ, Kavoussi LR, Novick AC, Partin AW, Peters CA, editors. Oxford: Oxford University Press; 2020.
2. Campbell-Walsh-Wein urology. 12th ed. Wein AJ, Kavoussi LR, Partin AW, Peters CA, editors. Philadelphia: Elsevier; 2021.
3. Bailey & Love's short practice of surgery. 27th ed. Williams NS, O'Connell PR, McCaskie AW, editors. Boca Raton (FL): CRC Press; 2023.
4. Urology at a glance. 2nd ed. Dasgupta P, Fitzpatrick JM. Hoboken (NJ): Wiley-Blackwell; 2020.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

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Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

11.09.2025

Discipline Coordinator,

Lecturer PhD Merticariu Mircea

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Lecturer PhD Merticariu Mircea

Laboratory Coordinator,

Lecturer PhD Merticariu Mircea
Prof. Habil Cauni Victor

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	PULMONOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Prof. Habil Nemeş Roxana Maria, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Prof. Habil Nemeş Roxana Maria, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Prof. Habil Nemeş Roxana Maria, MD, PhD Assoc. Prof. Luca Andrei				
Discipline Code	MLE.5.10.15	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			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					1
2. Study according with the course support, manuals					11
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					1
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	4
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	PULMONOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to PULMONOLOGY. • Identifying typical presentations, key findings and risk situations addressed in PULMONOLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of PULMONOLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to PULMONOLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in PULMONOLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in PULMONOLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe pathophysiology, clinical presentation and investigation principles of common respiratory diseases and respiratory failure.
Skills	Perform respiratory assessment, interpret ABG/spirometry summaries and initiate first-line measures for acute respiratory presentations under supervision.
Responsibilities/ Autonomy	Recognize deterioration, escalate appropriately and ensure safe oxygen prescribing and documentation under supervision.

Course Syllabus	Hours
Course #1. Chronic Obstructive Pulmonary Disease (COPD) Definition, epidemiology, risk factors, pathogenesis, structural and functional correlations, protease-antiprotease imbalance, clinical presentation, natural history, acute respiratory failure and pulmonary-heart syndrome associated with COPD, therapeutic strategies, and prognosis.	2
Course #2. Bronchial Asthma Definition, airway structural alterations, inflammatory cells and mediators, functional consequences of airway inflammation, epidemiology, risk factors, precipitating and exacerbating factors, therapeutic management including pharmacological agents, special asthma phenotypes, and complications.	2
Course #3. Pneumonia Classification, epidemiology, incidence, etiological agents, pathogenesis, clinical diagnosis, differential diagnosis, therapeutic guidelines, prognosis, and specific considerations in pneumonia occurring in HIV-positive and immunosuppressed patients.	2
Course #4. Broncho-Pulmonary Suppuration Definition, prevalence, pathology, etiopathogenesis, diagnostic criteria, prevention, and therapeutic options for bronchiectasis. Causes, microbiology, diagnostic approaches, differential diagnosis, and medical and surgical treatments of lung abscess. Etiology, clinical-radiological diagnosis, and management strategies for empyema.	2
Course #5. Etiopathogenesis of Tuberculosis General characteristics, bacteriology including modern diagnostic methods, immunological responses (Koch phenomenon, tuberculin sensitivity, protective immunity), morphopathology, and primary tuberculosis lesions.	2
Course #6. Clinical Manifestations of Tuberculosis Classifications and clinical types of tuberculosis: primary infection (pathogenesis, clinical-radiological forms, diagnosis, prognosis) and secondary tuberculosis (pathogenesis, early and manifest stages, differential diagnosis). Tuberculous sero-fibrinous pleurisy: pathogenesis, clinical-radiological presentation, diagnostic criteria, and prognosis.	2
Course #7. Treatment of Tuberculosis Principles of antituberculosis chemotherapy, classification and pharmacology of antituberculosis agents, treatment regimens, monitoring and management of drug toxicity, therapeutic approach to relapses, treatment failures, and special patient populations.	2
Course #8. Epidemiology, Prevention, and Control of Tuberculosis Transmission dynamics, global and regional epidemiological aspects, passive and active	2

Course Syllabus	Hours
detection strategies, epidemiological investigations, tuberculin testing, preventive strategies including standardized chemotherapy, BCG vaccination, chemoprophylaxis, and outbreak management.	
Course #9. Pleural Diseases Physiology and pathophysiology of pleural disorders, differential diagnosis and classification of pleural effusions (exudative vs. transudative), diagnostic approach and therapeutic management of pneumothorax (classification, clinical signs, interventions).	2
Course #10. Pulmonary Neoplasms Pathogenesis and risk factors of pulmonary malignancies, histopathological classification, clinical features, diagnostic imaging and staging techniques, complications, paraneoplastic syndromes, management strategies, surveillance protocols, and preventive measures.	2
Course #11. Pulmonary Thromboembolism and Pulmonary Hypertension Pathophysiology, risk stratification, diagnostic approach to deep venous thrombosis and pulmonary embolism, clinical variants, non-thrombotic embolism, differential diagnosis, therapeutic interventions, prophylaxis, and overview of pulmonary hypertension.	2
Course #12. Acute and Chronic Respiratory Failure; Chronic Pulmonary Heart Syndrome Mechanisms underlying respiratory failure, classification, ventilation-perfusion disturbances, clinical features, acute and chronic management, complications. Definition, physiology, pathophysiology, clinical manifestations, and management of chronic pulmonary heart syndrome.	2
Course #13. Sarcoidosis Definition, histopathological and immunopathological features, epidemiology, etiology, clinical presentation, diagnostic methods, therapeutic approaches, and prognosis.	2
Course #14. Pulmonary Manifestations of Systemic Diseases Pulmonary involvement in HIV/AIDS, rheumatologic and collagen vascular diseases, cardiovascular disorders, gastrointestinal and hepatic diseases, hematologic malignancies, renal and endocrine conditions. Diagnostic evaluation and treatment considerations.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Clinical Examination of the Respiratory System Identification, description, and interpretation of respiratory symptoms and signs. Practical training in systematic clinical examination techniques of the chest, including inspection, palpation, percussion, and auscultation.	2
Laboratory Work #2. Clinical Case Presentation and Observation Sheet in COPD Instruction on clinical case documentation, medical observation sheet completion, and structured presentation of clinical cases. Practical case discussions focused specifically on chronic obstructive pulmonary disease (COPD).	2
Laboratory Work #3. Functional Respiratory Tests Practical instruction in performing and interpreting spirometry, peak flow measurement, lung volume measurements, and diffusing capacity tests. Indications, contraindications, and clinical relevance of respiratory function tests.	2
Laboratory Work #4. Clinical Case Presentation in Bronchial Asthma Case-based learning through practical presentations of asthma cases. Diagnostic assessment, therapeutic management, monitoring, and discussion of specific clinical scenarios and asthma phenotypes.	2
Laboratory Work #5. Pulmonary Imaging Studies Hands-on interpretation of chest X-rays and computed tomography (CT) scans. Indications, interpretation criteria, recognition of normal and pathological pulmonary imaging findings.	2

Laboratory Syllabus	Hours
Laboratory Work #6. Clinical Case Presentation in Community-Acquired Pneumonia Structured practical case discussion and differential diagnostic reasoning in community-acquired pneumonia. Review of therapeutic protocols, patient management, and prognosis.	2
Laboratory Work #7. Sputum Examination and Analysis Techniques for sputum collection, handling, transportation, microscopic examination, microbial culture, and interpretation of culture and antibiogram results. Practical skills training and clinical application.	2
Laboratory Work #8. Clinical Case Presentation in Pulmonary Tuberculosis Case-based learning emphasizing clinical, radiological, microbiological diagnosis, and therapeutic management of pulmonary tuberculosis. Structured discussion of treatment regimens and patient follow-up.	2
Laboratory Work #9. Tuberculin Skin Testing (TST) Practical demonstration and training in administration, reading, and interpretation of various tuberculin tests. Indications, contraindications, false-positive and false-negative reactions, and clinical implications.	2
Laboratory Work #10. Clinical Case Presentation in Bacillary Pleurisy Case presentations highlighting diagnostic approach, clinical examination, imaging, pleural fluid analysis, and management of tuberculous pleurisy.	2
Laboratory Work #11. Fibrobronchoscopic Examination Practical introduction to bronchoscopy, including indications, contraindications, preparation, procedural technique, complications, and interpretation of bronchoscopic findings.	2
Laboratory Work #12. Clinical Case Presentation in Broncho-Pulmonary Neoplasm Structured case discussion emphasizing clinical, radiological, bronchoscopic diagnosis, staging methods, treatment options, and multidisciplinary patient management.	2
Laboratory Work #13. Pleural Puncture and Biopsy Hands-on instruction in thoracentesis and pleural biopsy techniques, procedural indications, contraindications, patient preparation, complications, and interpretation of findings.	2
Laboratory Work #14. Clinical Case Presentation in Pulmonary Thromboembolism Practical clinical scenario emphasizing diagnostic work-up, clinical decision-making, therapeutic strategies, and management considerations in pulmonary thromboembolism.	2

Minimum References:
1. Oxford textbook of respiratory medicine. 3rd ed. Gibson GJ, Loddenkemper R, Sibille Y, Lundbäck B, editors. Oxford: Oxford University Press; 2020.
2. Murray and Nadel's textbook of respiratory medicine. 7th ed. Broaddus VC, Mason RJ, Ernst JD, King TE Jr, Lazarus SC, Murray JF, Nadel JA, editors. Philadelphia: Elsevier; 2022.
3. Davidson's principles and practice of medicine. 24th ed. Ralston SH, Penman ID, Strachan MWJ, Hobson RP, editors. Edinburgh: Elsevier; 2022.
4. Respiratory medicine at a glance. 2nd ed. Wilkinson TMA, McKeever TM. Hoboken (NJ): Wiley-Blackwell; 2021.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

11.09.2025

Discipline Coordinator,
Prof. Habil Nemeş Roxana Maria

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Laboratory Coordinator,

Prof. Habil Nemeş Roxana Maria

Prof. Habil Nemeş Roxana Maria
Assoc. Prof. Luca Andrei

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	OCCUPATIONAL MEDICINE				
Didactic position, name and surname of the Discipline Coordinator	EL-Agha Nadia, MD, PhD Candidate				
Didactic position, name and surname for the Course Coordinator	EL-Agha Nadia, MD, PhD Candidate				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	EL-Agha Nadia, MD, PhD Candidate Pindic Bogdan, MD, PhD Candidate				
Discipline Code	MLE.5.10.16	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					11
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	4
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	OCCUPATIONAL MEDICINE
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to OCCUPATIONAL MEDICINE. • Identifying typical presentations, key findings and risk situations addressed in OCCUPATIONAL MEDICINE. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of OCCUPATIONAL MEDICINE. • To develop understanding of clinical assessment and diagnostic reasoning relevant to OCCUPATIONAL MEDICINE. • To familiarize students with evidence-based management principles and patient-safety considerations in OCCUPATIONAL MEDICINE. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in OCCUPATIONAL MEDICINE and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

Course name	OCCUPATIONAL MEDICINE
	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe occupational hazards and their health effects, principles of fitness-for-work assessment, surveillance and preventive strategies, including legal/ethical aspects.
Skills	Take an occupational history, assess risks and propose preventive measures and work-related recommendations under supervision.
Responsibilities/ Autonomy	Apply confidentiality and legal frameworks, document findings accurately and collaborate with stakeholders responsibly.

Course Syllabus	Hours
Course #1. Occupational Medicine – General Aspects Definition, scope, and objectives of occupational medicine. Characteristics and evaluation methods of working conditions and environments.	2
Course #2. Professional Toxins and Occupational Medicine Organization General principles regarding the toxic effects of occupational substances on the body. Structure, components, and functions of occupational medicine at national and international levels. Overview of professional toxins.	2
Course #3. Medical Ergonomics Concept, definition, and classification of ergonomics. Human-machine-environment interactions, recognition and management of ergonomic dysfunctions, and principles to optimize workplace ergonomics.	2
Course #4. Work Physiology and Professional Fatigue Physiological responses and adaptations of the human body to physical and mental workloads. Assessment of work capacity, influencing factors, prevention, recognition, and management of occupational fatigue.	2
Course #5. Occupational Diseases (1) Definition, criteria, and classifications of occupational diseases. Comparative overview of occupational diseases recognized nationally and internationally, including legislative frameworks and regulatory tables.	2
Course #6. Occupational Diseases (2) Principles of positive diagnosis, treatment strategies, and preventive measures in occupational diseases. Overview and clinical significance of occupation-related diseases and conditions.	2
Course #7. Occupational Diseases of the Respiratory System (1): Pneumoconioses Detailed exploration of pneumoconioses: definition, etiology, pathogenesis, pathological and radiological classifications. Comprehensive clinical, diagnostic, and therapeutic considerations of silicosis and asbestosis, including work-capacity evaluation and preventive measures.	2
Course #8. Occupational Diseases of the Respiratory System (2): Byssinosis and Professional Asthma Etiology, pathogenesis, clinical presentation, diagnosis, treatment, and prophylaxis of byssinosis and occupational asthma. Specific aspects regarding differential diagnosis, complications, and workplace interventions.	2

Course Syllabus	Hours
Course #9. Occupational Poisonings (1): Heavy Metals General principles of professional toxin absorption, distribution, biotransformation, and elimination. Clinical manifestations, diagnosis, treatment, and preventive measures in occupational lead poisoning and mercury poisoning.	2
Course #10. Occupational Poisonings (2): Organic Compounds Etiology, pathogenesis, clinical diagnosis, differential diagnosis, treatment, and prophylaxis of occupational benzene poisoning, nitro- and amino-aromatic hydrocarbon poisoning, and acute carbon monoxide intoxication.	2
Course #11. Occupational Poisonings (3): Irritant Gases and Organophosphates Clinical aspects, diagnosis, treatment, and preventive strategies of occupational intoxication with irritant gases and vapors, organophosphorus compounds, and methyl alcohol.	2
Course #12. Occupational Diseases Due to Physical Factors (1): Noise and Vibrations Occupational deafness and hearing loss: etiology, pathogenesis, diagnosis, treatment, and prevention. Occupational diseases induced by vibration (Raynaud's occupational syndrome): clinical characteristics, differential diagnosis, and preventive measures.	2
Course #13. Occupational Diseases Due to Physical Factors (2): Thermal Stress Occupational diseases related to extreme thermal environments (warm and cold microclimates). Clinical features, pathogenesis, diagnostic strategies, and preventive interventions for thermal occupational disorders.	2
Course #14. Special Problems in Occupational Medicine Occupational considerations and specific health challenges of special worker populations (left-handed individuals, monocular vision, epilepsy, diabetes). Occupational medicine issues across various professional sectors: mining, agriculture, automotive manufacturing, textiles, video display terminals, healthcare professions, and transport industries.	2

Laboratory Syllabus	Hours
Laboratory Work #1. Professional Medical History Structured approach to gathering detailed occupational health histories. Identification and documentation of occupational risks, workplace exposures, past medical history, and preventive measures.	2
Laboratory Work #2. Pre-employment and Periodic Medical Examinations Practical training in conducting medical assessments at employment and during periodic evaluations. Interpretation of clinical findings, assessment of occupational risk factors, and making fitness-for-work decisions.	2
Laboratory Work #3. Professiograms Techniques for drafting and interpreting professional profiles ("professiograms"). Matching job requirements with worker capabilities, risk assessment, and implementation of protective strategies.	2
Laboratory Work #4. Radiological Examination in Silicosis Practical instruction in performing and interpreting radiographic studies for diagnosis and assessment of silicosis. Familiarization with imaging criteria, severity grading, and differential diagnosis.	2
Laboratory Work #5. Functional Respiratory Tests Hands-on training in performing and interpreting spirometry, lung volumes, and diffusing capacity tests specific to occupational respiratory diseases. Indications, contraindications, and implications for occupational health assessments.	2
Laboratory Work #6. Clinical Case Study: Silicosis Presentation and analysis of clinical cases of silicosis. Diagnostic approach, clinical manifestations, differential diagnosis, work-capacity evaluation, and preventive management strategies.	2

Laboratory Syllabus	Hours
Laboratory Work #7. Clinical Case Study: Occupational Asthma Structured clinical case presentations focused on occupational asthma. Diagnostic considerations, interpretation of clinical data, treatment strategies, workplace modifications, and prevention.	2
Laboratory Work #8. Clinical Case Study: Occupational Lead Poisoning Practical case evaluation, diagnosis, management, and prevention strategies in occupational lead poisoning. Interpretation of laboratory findings and clinical implications for affected workers.	2
Laboratory Work #9. Clinical Case Study: Occupational Mercury Poisoning Presentation of clinical cases demonstrating mercury intoxication. Emphasis on clinical diagnosis, therapeutic management, preventive measures, and occupational exposure control.	2
Laboratory Work #10. Clinical Case Study: Occupational Benzene Poisoning Practical approach to clinical evaluation, diagnosis, and management of benzene poisoning. Recognition of acute and chronic symptoms, laboratory diagnostics, and occupational interventions.	2
Laboratory Work #11. Physiological Changes During Work Practical evaluation of physiological adaptations and stress responses during occupational activities. Assessment of worker fatigue, physical workload measurement, and ergonomic interventions.	2
Laboratory Work #12. Medical Examinations for Workers in Traffic Safety Positions Guidelines for conducting and interpreting specialized medical examinations for workers responsible for traffic safety. Evaluation methods, fitness-for-duty determination, and regulatory compliance.	2
Laboratory Work #13. Audiograms and Occupational Deafness Cases Practical instruction in performing audiometric tests and interpreting audiograms. Clinical case presentations emphasizing occupational hearing loss, preventive strategies, and workplace modifications.	2
Laboratory Work #14. Special Clinical Cases in Occupational Medicine Presentation and discussion of selected clinical cases highlighting unique or challenging occupational medicine scenarios. Integrated case management, prevention, and multidisciplinary approach.	2

Minimum References:
1. Baxter PJ, Aw TC, Cockcroft A, Harrington JM, editors. Hunter's diseases of occupations . 10th ed. London: CRC Press; 2018.
2. Palmer KT, Brown I, Hobson J, editors. Fitness for work: the medical aspects . 6th ed. Oxford: Oxford University Press; 2019.
3. LaDou J, Harrison R, editors. Current diagnosis & treatment: occupational & environmental medicine . 6th ed. New York: McGraw-Hill Education; 2020.
4. World Health Organization. WHO guidelines on occupational health . Geneva: World Health Organization; 2021.
5. Teaching support materials

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	
Type of Activity	Teaching methods used

How the information is transmitted	
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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
11.09.2025

Discipline Coordinator,
PhD Candidate L-Agha Nadia

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
PhD Candidate L-Agha Nadia

Laboratory Coordinator,
PhD Candidate L-Agha Nadia

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	GERIATRICS AND GERONTOLOGY				
Didactic position, name and surname of the Discipline Coordinator	Univ. Asist. Candidate Batiş Laura, MD, PhD Candidate				
Didactic position, name and surname for the Course Coordinator	Univ. Asist. Candidate Batiş Laura, MD, PhD Candidate				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Univ. Asist. Candidate Batiş Laura, MD, PhD Candidate Hâncu Andrada Maria, MD, PhD Candidate				
Discipline Code	MLE.5.10.17	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	E10
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

Distribution of time pool per week					Hours
1. Study of the course material					1
2. Study according with the course support, manuals					11
3. Study of the minimal bibliography					1
4. Additional documentation in the library					1
5. Specific activity for the seminary or laboratory					2
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
8. Preparing for oral examinations	0
9. Preparing for the final examination	4
10. Consultations	1
11. In the field documentation	0
12. Documentation from web sources, portals, wiki websites	5
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	GERIATRICS AND GERONTOLOGY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to GERIATRICS AND GERONTOLOGY. • Identifying typical presentations, key findings and risk situations addressed in GERIATRICS AND GERONTOLOGY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of GERIATRICS AND GERONTOLOGY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to GERIATRICS AND GERONTOLOGY. • To familiarize students with evidence-based management principles and patient-safety considerations in GERIATRICS AND GERONTOLOGY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in GERIATRICS AND GERONTOLOGY and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Explain physiological ageing and major geriatric syndromes and principles of comprehensive geriatric assessment and care planning.
Skills	Perform basic functional/cognitive assessment, identify polypharmacy issues and contribute to patient-centred care plans under supervision.
Responsibilities/ Autonomy	Respect autonomy and capacity, recognize acute deterioration and document goals of care responsibly under supervision.

Course Syllabus	Hours
Course #1. Introduction to Geriatrics Definition and scope of geriatrics as a specialty. Criteria and classifications for defining the elderly population. General characteristics and trends related to aging.	1
Course #2. Geriatric Health Concepts and Social Legislation Differentiation between illness, accidents, infirmity, deficiency, disability, handicap, and invalidity. Overview of social insurance systems, legislation, and support available for elderly individuals.	1
Course #3. Age- and Gender-Related Geriatric Peculiarities Clinical and physiological variations associated with aging. Gender-specific considerations, age-related changes, and their implications for healthcare and clinical management.	1
Course #4. Social Implications of Disease and Institutionalization Examination of the social consequences of chronic and acute diseases among the elderly. Decision-making around voluntary or involuntary hospitalization in medical or nursing facilities.	1
Course #5. Cancer in the Elderly Special considerations in oncological care for elderly patients, including diagnosis, clinical features, treatment options, palliative care, and psychosocial support.	1
Course #6. End-of-Life Care and Communication Approaches for addressing death with elderly patients and their families. Strategies for patient and family preparation, emotional and practical support, procedures for certifying death, and legal documentation.	1
Course #7. Mental Health Disorders in Geriatrics Recognition, assessment, diagnosis, and management of common psychiatric conditions in elderly patients (dementia, depression, anxiety). Considerations of pharmacological and non-pharmacological interventions.	1
Course #8. Trauma and Accidental Injuries in the Elderly Focus on injuries commonly associated with falls and road accidents. Clinical features, fracture management, therapeutic interventions, and principles of rehabilitation.	1
Course #9. Cardiovascular Diseases in the Elderly Clinical characteristics, diagnostic approach, treatment options, and patient care strategies for cardiovascular disorders. Age-specific considerations for management and follow-up.	1
Course #10. Pulmonary Disorders and Respiratory Care Diagnosis and management of respiratory diseases common in elderly patients. Special attention to cardiopulmonary insufficiency, oxygen therapy principles, and patient monitoring.	1

Course Syllabus	Hours
Course #11. Dermatological and Sexual Health in Elderly Patients Overview of common dermatological disorders and sexual health issues affecting the elderly. Clinical approach, diagnosis, treatment, counseling, and education.	1
Course #12. Kidney Diseases in Elderly Patients Clinical features, diagnosis, management, and preventive care for kidney diseases in geriatrics. Special considerations for pharmacotherapy and dialysis in elderly populations.	1
Course #13. Digestive Disorders in the Elderly Clinical presentation, diagnosis, and treatment of common digestive diseases in geriatrics. Nutritional management, preventive care, and special considerations in elderly patients.	1
Course #14. Comprehensive Recapitulation of Geriatric Knowledge Summary and integration of key concepts, diagnostic approaches, and management strategies from the entire geriatrics course. Practical scenarios and clinical case discussions.	1

Praactical Works Syllabus	Hours
Practical Work #1. Comprehensive Geriatric Assessment (CGA) Training in multidimensional assessment of elderly patients, including medical, functional, cognitive, and social evaluation.	2
Practical Work #2. Evaluation of Disability and Social Support Assessment of functional impairment, disability scales, social insurance eligibility, and medico-social documentation.	2
Practical Work #3. Age- and Gender-Specific Clinical Examination Identification of physiological changes related to aging and gender; adaptation of clinical examination techniques.	2
Practical Work #4. Assessment of Social Impact and Institutionalization Needs Evaluation of social environment, caregiver support, and criteria for hospital or long-term care admission.	2
Practical Work #5. Geriatric Oncology – Practical Approach Clinical evaluation of elderly oncology patients; assessment of treatment tolerance, frailty, and palliative needs.	2
Practical Work #6. End-of-Life Care and Communication Skills Simulation and role-play of communication with patients and families; advance care planning and legal documentation.	2
Practical Work #7. Mental Health Assessment in the Elderly Use of cognitive and mood assessment tools (MMSE, MoCA, GDS); management strategies for geriatric psychiatric disorders.	2
Practical Work #8. Trauma and Fall Risk Assessment Evaluation of fall risk, fracture management principles, and rehabilitation planning.	2
Practical Work #9. Cardiovascular Examination in Elderly Patients Adapted cardiovascular assessment; interpretation of investigations and age-specific treatment considerations.	2
Practical Work #10. Respiratory Assessment and Oxygen Therapy Clinical evaluation of respiratory function; safe use of oxygen therapy and monitoring.	2
Practical Work #11. Dermatological and Sexual Health Evaluation Clinical examination of common skin conditions; discussion of sexual health, counseling, and patient education.	2
Practical Work #12. Renal Function Assessment in Geriatrics Evaluation of renal function; drug dosing adjustments and dialysis considerations.	2
Practical Work #13. Digestive Disorders and Nutritional Assessment Assessment of gastrointestinal symptoms; nutritional status evaluation and dietary planning.	2

Practical Works Syllabus	Hours
Practical Work #14. Integrated Geriatric Case Management Student-led case presentations integrating medical, functional, social, and ethical aspects of geriatric care.	2

Minimum References:
1. Sinclair AJ, Morley JE, Vellas B, editors. Pathy's principles and practice of geriatric medicine. 6th ed. Hoboken (NJ): Wiley-Blackwell; 2020.
2. Michel JP, Beattie BL, Martin FC, Walston J, editors. Oxford textbook of geriatric medicine. 3rd ed. Oxford: Oxford University Press; 2018.
3. Roller-Wirnsberger R, Singler K, Polidori MC, editors. Learning geriatric medicine: a study guide for medical students. Cham: Springer; 2020.
4. Falaschetti E, Mindell J, editors. Public health aspects of ageing. Copenhagen: WHO Regional Office for Europe; 2021.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:
<ul style="list-style-type: none"> • Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> Multiple choice examination 	
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

11.09.2025

Discipline Coordinator,

Asist. PhD Candidate Batiş Laura

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Asist. PhD Candidate Batiş Laura

Laboratory Coordinator,

Asist. PhD Candidate Batiş Laura
PhD Candidate Hâncu Andrada Maria

Department Approval Date

25.09.2025



DISCIPLINE FILE

Faculty	MEDICINE
Department	PRECLINICAL SCIENCES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE IN ENGLISH

Discipline`s Name	YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES				
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Botecă Teodor Dan				
Didactic position, name and surname for the Course Coordinator	-				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Lecturer Anghelescu Dan, MD, PhD Assoc. Prof. Botecă Teodor Dan, MD, PhD				
Discipline Code	MLE.5.10.18	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

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

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

Distribution of time pool per week	Hours
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	160
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES. • Identifying typical presentations, key findings and risk situations addressed in YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES. • To develop understanding of clinical assessment and diagnostic reasoning relevant to YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES. • To familiarize students with evidence-based management principles and patient-safety considerations in YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.

Course name	YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in YEARLY MEDICAL PRACTICE FOR ACQUIRING MEDICAL SKILLS AND COMPETENCES and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe integrated clinical workflows for Year V practice, including admission, inpatient management, discharge planning, follow-up and core patient-safety principles.
Skills	Apply clinical reasoning to common presentations, perform core bedside skills and present cases succinctly under supervision.
Responsibilities/ Autonomy	Assume responsibility for assigned tasks within scope, prioritize workload and escalate concerns appropriately while maintaining accurate documentation.

Laboratory Syllabus	Hours
Laboratory Work #1. Medical Language and Patient Handling Development of correct and logical use of medical language in clinical settings. Practical training in assisting patients with mobility, positioning at the edge of the bed, proper in-bed positioning, and recognition of normal vs. antalgic (pain-relieving) postures.	40
Laboratory Work #2. Administrative Knowledge Understanding the patient's circuit within the healthcare unit. Overview of patient rights and obligations, procedures for obtaining informed consent, and basic notions of medical malpractice.	40
Laboratory Work #3. Patient Management Approach to patient care based on specific pathologies. Application of general and condition-specific paraclinical investigations. Execution of dressing techniques, patient surveys, and basic principles of diet and nutrition planning.	40
Laboratory Work #4. Supervision and Execution of Medical Maneuvers Monitoring of key patient parameters: temperature, pulse, respiration, diuresis, stool, vomiting, sputum. Conducting structured anamnesis and pain assessment. Performance of non-invasive procedures such as blood pressure measurement, capillary glucose and pulse checks, oxygen therapy via nasal cannula, and administration of medications. Integration of knowledge through clinical case discussions.	40

Minimum References:
<ol style="list-style-type: none"> 1. Bickley LS, Szilagyi PG, Hoffman RM. Bates' Guide to Physical Examination and History Taking. 13th ed. Philadelphia: Wolters Kluwer; 2021.

Minimum References:

2. Dutton RP, Jones DG, Laupland KB, editors. Clinical Skills for Medical Students: A Step-by-Step Guide. 3rd ed. London: Elsevier; 2023.
3. Gaba DM. Patient Safety and Simulation in Clinical Practice. 2nd ed. New York: Springer Nature; 2022.
4. O'Neill PA, Dornan T, Dennick R. Clinical Skills in Medicine: Learning, Teaching and Assessment. 2nd ed. Oxford: Oxford University Press; 2021.
5. World Health Organization. WHO Guidelines on Hand Hygiene in Health Care: First Global Patient Safety Challenge – Clean Care Is Safer Care. Geneva: World Health Organization; 2023.
6. Teaching support materials

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 Yearly Medical Practice for Acquiring Medical Skills and Competences discipline corresponds to the expectations of the academic medical community and healthcare employers by developing fundamental clinical and professional skills essential for future medical practice. It provides first-year medical students with direct exposure to hospital organization, patient care, asepsis, vital sign monitoring, and basic medical maneuvers, forming the basis for clinical reasoning and patient safety. The course is aligned with the requirements of the WFME, AMEE, and national health authorities, fostering professional conduct, empathy, and procedural competence consistent with international medical training standards.

How the information is transmitted

Type of Activity	Teaching methods used
Lecture	•
Laboratory (Practical Work)	•

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams:

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

-

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60 %
- Responses to the laboratory examination	15 %
- Periodic checks with written exams	10 %
- Continuous testing through the semester	10 %
- Projects / Translations / Posters / Essays, etc.	-
- Other activities:	5 %

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)
•	•

Date of completion

11.09.2025

Discipline Coordinator,

Assoc.Prof. Botecă Teodor Dan

Head of Department,

**Ioan Sorin Tudorache, Assoc. Professor, M.D.,
PhD**

Course Coordinator,

-

Laboratory Coordinator,

Lecturer PhD Anghelescu Dan
Assoc.Prof. Botecă Teodor Dan

Department Approval Date

25.09.2025



DISCIPLINE FILE

Faculty	MEDICINE
Department	PRECLINICAL SCIENCES
Field of study	HEALTHCARE
Study cycle	BACHELOR
Study programme	MEDICINE IN ENGLISH

Discipline`s Name	PRACTICAL SKILLS INTERNSHIP				
Didactic position, name and surname of the Discipline Coordinator	Asist. PhD Nicodin Mihnea				
Didactic position, name and surname for the Course Coordinator	-				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	Asist. PhD Nicodin Mihnea				
Discipline Code	MLE.5.10.19	Formative category of the discipline		SS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, E -elective)			M	No. of credits	2

No. of Hours per week	40	Out of which are Course hours:	-	Seminar / Practical Activity / Clinical Stage	40
Total of hours in the curriculum	120	Out of which are Course hours:	-	Seminar / Practical Activity / Clinical Stage	120
		Total hours per semester	120	Total hours of individual study	-

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

Distribution of time pool per week	Hours
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	120
12. Documentation from web sources, portals, wiki websites	0
13. Tutoring	0
14. Examinations	0
15. Other activities:	0

Course name	PRACTICAL SKILLS INTERNSHIP
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to PRACTICAL SKILLS INTERNSHIP. • Identifying typical presentations, key findings and risk situations addressed in PRACTICAL SKILLS INTERNSHIP. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of PRACTICAL SKILLS INTERNSHIP. • To develop understanding of clinical assessment and diagnostic reasoning relevant to PRACTICAL SKILLS INTERNSHIP. • To familiarize students with evidence-based management principles and patient-safety considerations in PRACTICAL SKILLS INTERNSHIP. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in PRACTICAL SKILLS INTERNSHIP and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe indications, contraindications and safety principles of core practical procedures performed during internship, including asepsis and documentation requirements.
Skills	Perform core practical skills under supervision (as permitted), monitor patients and use checklists and structured reporting.
Responsibilities/ Autonomy	Work strictly within competence, obtain consent where applicable and document procedures and adverse events according to policy.

Practical Work Syllabus		Hours
Practical Work #1. Medical Duty – Session 1: Organization of the Medical Shift Service Overview of emergency department structure, protocols, responsibilities, and workflow during on-call shifts.		8
Practical Work #2. Medical Duty – Session 2: Organization of the Medical Shift Service Continuation of the structural and procedural framework, including communication strategies and documentation standards.		8
Practical Work #3. Medical Duty – Session 3: Patient Management in the Emergency Room Initial evaluation and condition-specific management of medical patients presenting to the emergency department.		8
Practical Work #4. Medical Duty – Session 4: Patient Management in the Emergency Room Further practice in patient triage and stabilization according to clinical presentation and urgency.		8
Practical Work #5. Medical Duty – Session 5: Patient Management in the Emergency Room Application of protocols for acute cases involving cardiovascular, respiratory, and metabolic disturbances.		8
Practical Work #6. Medical Duty – Session 6: Basic Techniques in the Emergency Department (I) Clinical examination, cardiopulmonary assessment, pulse oximetry, and non-invasive blood pressure measurement.		8
Practical Work #7. Medical Duty – Session 7: Basic Techniques in the Emergency Department (II) Peripheral venipuncture, venous catheter placement, blood collection, urinary catheterization, nasogastric tube insertion, and oxygen therapy.		8
Practical Work #8. Medical Duty – Session 8: Core Clinical Emergency Techniques (I) Comprehensive emergency clinical examination, abdominal and respiratory assessment, and interpretation of laboratory and imaging data.		8
Practical Work #9. Medical Duty – Session 9: Core Clinical Emergency Techniques (II) Reinforcement and repetition of core techniques, with focus on urgent diagnostic evaluation and patient monitoring.		8
Practical Work #10. Medical Duty – Session 10: Core Clinical Emergency Techniques (III) Continued training in emergency clinical assessments and diagnostic reasoning based on lab and imaging results.		8

Practical Work Syllabus	Hours
Practical Work #11. Surgical Duty – Session 1: Organization of the Surgical Shift Department Structure and operation of the surgical on-call service. Triage, emergency case flow, and coordination within surgical teams.	8
Practical Work #12. Surgical Duty – Session 2: Acute Surgical Patient Management Initial evaluation and stabilization of acute surgical patients presenting to the emergency department.	8
Practical Work #13. Surgical Duty – Session 3: Basic Emergency Surgical Techniques Urinary and nasogastric catheterization, fluid resuscitation, oxygen therapy, shock management, and intravenous analgesia.	8
Practical Work #14. Surgical Duty – Session 4: Basic Life Support (BLS) Introduction and application of BLS protocols in surgical emergencies, including airway, breathing, and circulation support.	8
Practical Work #15. Surgical Duty – Session 5: Clinical Examination in Acute Surgical Cases Systematic clinical assessment of surgical patients: abdominal, thoracic, cardiovascular, and orthopedic examinations.	8

Minimum References:
1. Bickley LS, Szilagyi PG, Hoffman RM. Bates' Guide to Physical Examination and History Taking. 13th ed. Philadelphia: Wolters Kluwer; 2021.
2. Dutton RP, Jones DG, Laupland KB, editors. Clinical Skills for Medical Students: A Step-by-Step Guide. 3rd ed. London: Elsevier; 2023.
3. Gaba DM. Patient Safety and Simulation in Clinical Practice. 2nd ed. New York: Springer Nature; 2022.
4. O'Neill PA, Dornan T, Dennick R. Clinical Skills in Medicine: Learning, Teaching and Assessment. 2nd ed. Oxford: Oxford University Press; 2021.
5. World Health Organization. WHO Guidelines on Hand Hygiene in Health Care: First Global Patient Safety Challenge – Clean Care Is Safer Care. Geneva: World Health Organization; 2023.
6. Teaching support materials

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 content of the Yearly Medical Practice for Acquiring Medical Skills and Competences discipline corresponds to the expectations of the academic medical community and healthcare employers by developing fundamental clinical and professional skills essential for future medical practice. It provides first-year medical students with direct exposure to hospital organization, patient care, asepsis, vital sign monitoring, and basic medical maneuvers, forming the basis for clinical reasoning and patient safety. The course is aligned with the requirements of the WFME, AMEE, and national health authorities, fostering professional conduct, empathy, and procedural competence consistent with international medical training standards.

How the information is transmitted	
Type of Activity	Teaching methods used
Lecture	•
Laboratory (Practical Work)	•

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:

•

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams:

•

Specific conditions for carrying out the theoretical and practical activities of the discipline:

•

Consideration points for computing the final score:	Percentage share of scoring (Total = 100%)
- Responses to the final exam	60 %
- Responses to the laboratory examination	15 %
- Periodic checks with written exams	10 %
- Continuous testing through the semester	10 %
- Projects / Translations / Posters / Essays, etc.	-
- Other activities:	5 %
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)
•	•

Date of completion

11.09.2025

Discipline Coordinator,

Asist. PhD Nicodin Mihnea

Head of Department,

Ioan Sorin Tudorache, Assoc. Professor, M.D.,
PhD

Course Coordinator,

-

Laboratory Coordinator,

Asist. PhD Nicodin Mihnea

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	CLINICAL GENETICS				
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Budişteanu Magdalena, MD, PhD				
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Budişteanu Magdalena, MD, PhD				
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-				
Discipline Code	MLE.O.18	Formative category of the discipline		DS	
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10
Discipline Regime (M -mandatory, E -elective)			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				2
2. Study according with the course support, manuals				13
3. Study of the minimal bibliography				2
4. Additional documentation in the library				2
5. Specific activity for the seminary or laboratory				0
6. Homework, translations, etc.				0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	CLINICAL GENETICS
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to CLINICAL GENETICS. • Identifying typical presentations, key findings and risk situations addressed in CLINICAL GENETICS. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of CLINICAL GENETICS. • To develop understanding of clinical assessment and diagnostic reasoning relevant to CLINICAL GENETICS. • To familiarize students with evidence-based management principles and patient-safety considerations in CLINICAL GENETICS. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in CLINICAL GENETICS and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.
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Learning Outcomes	
Knowledge	Describe inheritance patterns, genetic variation and indications for genetic testing and counselling, including ethical and legal implications.
Skills	Elicit a family history, construct a basic pedigree and identify scenarios requiring genetic referral and appropriate testing pathways under supervision.
Responsibilities/ Autonomy	Handle genetic information with confidentiality and informed consent, communicate limitations and coordinate follow-up responsibly.

Course Syllabus	Hours
Course #1. Introduction to Clinical Genetics Defines clinical genetics, its scope, and its role in modern medicine; overview of genetic contribution to disease.	2
Course #2. Modes of Inheritance and Genetic Risk Assessment Autosomal, X-linked, mitochondrial inheritance; pedigree analysis; estimation of recurrence risk.	2
Course #3. Chromosomal Disorders Numerical and structural chromosomal abnormalities; clinical features and diagnostic approaches.	2
Course #4. Monogenic and Multifactorial Diseases Single-gene disorders, complex traits, gene–environment interactions, and common genetic diseases.	2
Course #5. Genetic Testing and Molecular Diagnostic Techniques Indications, methodologies, interpretation, and limitations of genetic tests.	2
Course #6. Genetic Counseling in Clinical Practice Principles of counseling, communication of genetic information, psychosocial considerations.	2
Course #7. Ethical, Legal, and Preventive Aspects of Clinical Genetics Informed consent, confidentiality, prenatal and predictive testing, and public health genetics.	2

Minimum References:
1. Turnpenny P, Ellard S, Cleaver R. Emery’s elements of medical genetics and genomics . 16th ed. Edinburgh: Elsevier; 2022.
2. Rimoin DL, Pyeritz RE, Korf BR, editors. Emery and Rimoin’s principles and practice of medical genetics and genomics . 7th ed. London: Academic Press; 2020.
3. Nussbaum RL, McInnes RR, Willard HF, Hamosh A. Thompson & Thompson genetics in medicine . 9th ed. Philadelphia: Elsevier; 2016.
4. Harper PS. Practical genetic counselling . 8th ed. London: CRC Press; 2020.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

11.09.2025

Discipline Coordinator,
Assoc.Prof. Budişteanu Magdalena

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Assoc.Prof. Budişteanu Magdalena

Laboratory Coordinator,
-

Department Approval Date
25.10.2025



DISCIPLINE FILE

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

Discipline`s Name	RESPIRATORY FAILURE					
Didactic position, name and surname of the Discipline Coordinator	Prof. Habil Nemeş Roxana Maria, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Prof. Habil Nemeş Roxana Maria, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.19	Formative category of the discipline		DS		
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10	
Discipline Regime (M -mandatory, E -elective)				E	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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	RESPIRATORY FAILURE
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to RESPIRATORY FAILURE. • Identifying typical presentations, key findings and risk situations addressed in RESPIRATORY FAILURE. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of RESPIRATORY FAILURE. • To develop understanding of clinical assessment and diagnostic reasoning relevant to RESPIRATORY FAILURE. • To familiarize students with evidence-based management principles and patient-safety considerations in RESPIRATORY FAILURE. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in RESPIRATORY FAILURE and recognize red flags requiring urgent escalation. • Perform a focused history and physical examination appropriate to the discipline.

Course name	RESPIRATORY FAILURE
	<ul style="list-style-type: none"> • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Explain mechanisms and clinical patterns of acute and chronic respiratory failure and principles of oxygen therapy, NIV and invasive ventilation indications.
Skills	Recognize respiratory failure clinically, interpret ABG patterns and initiate immediate supportive measures and escalation algorithms under supervision.
Responsibilities/ Autonomy	Escalate to senior/ICU teams when criteria are met and ensure safe oxygen prescribing, close monitoring and documentation.

Course Syllabus	Hours
Course #1. Respiratory Physiology and Gas Exchange Reviews normal respiratory physiology, ventilation–perfusion relationships, and oxygen and carbon dioxide transport.	2
Course #2. Definition, Classification, and Pathophysiology of Respiratory Failure Introduces acute and chronic respiratory failure, hypoxemic and hypercapnic types, and underlying mechanisms.	2
Course #3. Etiology of Respiratory Failure Addresses pulmonary, extrapulmonary, and neuromuscular causes of respiratory failure.	2
Course #4. Clinical Assessment and Diagnostic Methods Focuses on clinical evaluation, arterial blood gas analysis, imaging, and pulmonary function tests.	2
Course #5. Oxygen Therapy and Non-Invasive Ventilation Covers indications, methods, monitoring, and complications of oxygen therapy and non-invasive ventilation.	2
Course #6. Invasive Mechanical Ventilation and Intensive Care Management Introduces principles of invasive ventilation, ventilator settings, complications, and ICU monitoring.	2
Course #7. Chronic Respiratory Failure, Rehabilitation, and Ethical Considerations Addresses long-term respiratory support, pulmonary rehabilitation, palliative care, and ethical decision-making.	2

Minimum References:
1. Tobin MJ. Principles and practice of mechanical ventilation . 4th ed. New York: McGraw-Hill Education; 2023.
2. Gibson GJ, Loddenkemper R, Sibille Y, Lundbäck B, editors. Oxford textbook of respiratory medicine . 3rd ed. Oxford: Oxford University Press; 2020.
3. West JB. Respiratory physiology: the essentials . 11th ed. Philadelphia: Wolters Kluwer; 2021.
4. Nava S, Hill N, editors. Noninvasive ventilation in acute respiratory failure . 2nd ed. Cham: Springer; 2019.

Minimum References:

- 5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

11.09.2025

Discipline Coordinator,
Prof. Habil Nemeş Roxana Maria

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Prof. Habil Nemeş Roxana Maria

Laboratory Coordinator,
-

Department Approval Date
25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	DERMATOLOGICAL AUTOIMMUNE DISEASES					
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Olteanu Rodica, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Olteanu Rodica, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.20	Formative category of the discipline		SS		
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10	
Discipline Regime (M -mandatory, E -elective)				E	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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	DERMATOLOGICAL AUTOIMMUNE DISEASES
Specific professional competencies	<ul style="list-style-type: none"> Understanding core concepts and principles relevant to DERMATOLOGICAL AUTOIMMUNE DISEASES. Identifying typical presentations, key findings and risk situations addressed in DERMATOLOGICAL AUTOIMMUNE DISEASES. Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> Development of analytical and critical thinking for structured clinical problem-solving. Effective communication in academic and clinical contexts, including structured handover. Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> To provide fundamental knowledge regarding the core scope of DERMATOLOGICAL AUTOIMMUNE DISEASES. To develop understanding of clinical assessment and diagnostic reasoning relevant to DERMATOLOGICAL AUTOIMMUNE DISEASES. To familiarize students with evidence-based management principles and patient-safety considerations in DERMATOLOGICAL AUTOIMMUNE DISEASES. To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> Identify common clinical presentations addressed in DERMATOLOGICAL AUTOIMMUNE DISEASES and recognize red flags requiring urgent escalation.

Course name	DERMATOLOGICAL AUTOIMMUNE DISEASES
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe immunopathogenesis, diagnostic approaches and treatment principles for major autoimmune dermatologic diseases, including therapy monitoring and safety.
Skills	Characterize lesions, identify red flags and propose initial work-up and referral pathways under supervision.
Responsibilities/ Autonomy	Avoid harmful delays, support safe monitoring and educate patients regarding adherence and warning signs responsibly.

Course Syllabus	Hours
Course #1. Innate Immunity of the Skin Overview of cutaneous innate immune responses. Barriers, mechanisms of defense, innate immune cells, and their role in skin protection.	1
Course #2. Adaptive Immunity of the Skin Detailed discussion of adaptive immune responses within the skin. Antigen presentation, lymphocyte activation, memory cell formation, and immunological tolerance mechanisms.	1
Course #3. Skin Cells Involved in the Immune Response Identification and functions of various skin-resident immune cells, including dendritic cells, Langerhans cells, macrophages, T cells, B cells, and mast cells.	1
Course #4. Cytokines, Chemokines, and Growth Factors Role of signaling molecules in skin immunity. Detailed examination of cytokines, chemokines, and growth factors, their mechanisms of action, regulation, and clinical significance.	1
Course #5. Antimicrobial Peptides in Skin Immunity Function and clinical relevance of antimicrobial peptides (AMPs) in cutaneous defense. Expression patterns, mechanisms of action, and therapeutic potential.	1
Course #6. Keratinocyte as an Immune Cell Immune functions of keratinocytes. Their role in innate immunity, cytokine production, antigen presentation, and inflammatory responses.	1
Course #7. Autoimmune Diseases with Skin Manifestations: Lupus Erythematosus and Scleroderma Immunopathogenesis, clinical presentation, diagnosis, and immunological treatment approaches for lupus erythematosus and scleroderma.	1
Course #8. Immunological Mechanisms in Bullous Diseases Detailed analysis of immune pathways involved in autoimmune bullous diseases. Pathophysiology, diagnostic techniques, and immunomodulatory treatments.	1
Course #9. Allergic Skin Diseases Pathogenesis and clinical manifestations of allergic dermatological conditions. Mechanisms underlying hypersensitivity reactions, allergen identification, and immunotherapy.	1

Course Syllabus	Hours
Course #10. Investigation of Immune Mechanisms in Allergic Skin Diseases Diagnostic methodologies, laboratory techniques, and clinical assessments for investigating allergic dermatological disorders. Interpretation of immunological findings.	1
Course #11. Immune Deficiency Diseases Overview of primary and secondary immunodeficiencies affecting the skin. Clinical features, pathogenesis, diagnostic approaches, and immunological management.	1
Course #12. Immunological Mechanisms in Psoriasis Detailed exploration of immune pathways and cellular responses underlying psoriasis. Therapeutic implications and targeted immunological therapies.	1
Course #13. Immune Mechanisms in Skin Tumors Role of the immune system in the development and progression of skin cancers. Immunosurveillance, tumor evasion mechanisms, and immunotherapeutic strategies.	1
Course #14. Cutaneous Immunity in Skin Infections Immune responses against bacterial, viral, fungal, and parasitic skin infections. Mechanisms of host defense, immune evasion by pathogens, and therapeutic implications.	1

Minimum References:
1. Griffiths CEM, Barker J, Bleiker T, Chalmers R, Creamer D, editors. Rook's textbook of dermatology . 10th ed. Hoboken (NJ): Wiley-Blackwell; 2023.
2. Schmidt E, Zillikens D, editors. Pemphigus and bullous pemphigoid . 2nd ed. Cham: Springer; 2019.
3. Kuhn A, Lehmann P, Ruzicka T, editors. Cutaneous lupus erythematosus . 2nd ed. Berlin: Springer; 2016.
4. Bologna JL, Schaffer JV, Cerroni L. Dermatology . 4th ed. Philadelphia: Elsevier; 2018.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> • Multiple choice examination 	
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

11.09.2025

Discipline Coordinator,
Assoc. Prof. Olteanu Rodica

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Assoc. Prof. Olteanu Rodica

Laboratory Coordinator,
-

Department Approval Date

25.10.2025



DISCIPLINE FILE

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

Discipline`s Name	FUNDAMENTS OF MODERN ELECTROSURGERY					
Didactic position, name and surname of the Discipline Coordinator	Assoc. Prof. Ulmeanu Dan Ioan, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Assoc. Prof. Ulmeanu Dan Ioan, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.21	Formative category of the discipline		SS		
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10	
Discipline Regime (M -mandatory, E -elective)				E	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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	FUNDAMENTS OF MODERN ELECTROSURGERY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to FUNDAMENTS OF MODERN ELECTROSURGERY. • Identifying typical presentations, key findings and risk situations addressed in FUNDAMENTS OF MODERN ELECTROSURGERY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of FUNDAMENTS OF MODERN ELECTROSURGERY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to FUNDAMENTS OF MODERN ELECTROSURGERY. • To familiarize students with evidence-based management principles and patient-safety considerations in FUNDAMENTS OF MODERN ELECTROSURGERY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in FUNDAMENTS OF MODERN ELECTROSURGERY and recognize red flags requiring urgent escalation.

Course name	FUNDAMENTS OF MODERN ELECTROSURGERY
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe principles of electrosurgery, device types, energy–tissue interactions, key risks and prevention strategies in the operating room.
Skills	Apply safe electrosurgical practices in simulated/supervised settings, identify unsafe situations and support basic troubleshooting with the OR team.
Responsibilities/ Autonomy	Adhere to safety protocols and checklists and report incidents/near misses responsibly under supervision.

Course Syllabus	Hours
Course #1. Electro-surgery Equipment Overview of electrosurgical devices: principles of operation, types of equipment, monopolar and bipolar systems, clinical applications, safety precautions, and maintenance.	2
Course #2. Electrocautery Detailed discussion on electrocautery: operating principles, instrumentation, technique-specific applications in surgery, advantages, limitations, complications, and patient safety considerations.	2
Course #3. Radiocautery Understanding radiocautery technology: fundamental physics, comparison with traditional electrocautery, clinical indications, technical execution, benefits, and risks.	2
Course #4. Cryosurgery Equipment Principles and clinical applications of cryosurgery: device components, operational techniques, tissue response to cold injury, indications, contraindications, potential complications, and postoperative care.	2
Course #5. Ultrasonic Dissectors Mechanisms, clinical use, advantages, and limitations of ultrasonic dissectors. Application techniques in various surgical procedures, safety considerations, and comparative analysis with other dissection methods.	2
Course #6. Radio Frequency Equipment Introduction to radiofrequency surgical devices: underlying physical principles, equipment configurations, clinical applications, therapeutic efficacy, potential complications, and best practices.	2
Course #7. Tourniquet Systems Comprehensive overview of surgical tourniquet systems: types of tourniquets, operational guidelines, indications, potential risks, preventive measures, and patient safety considerations during usage.	2

Minimum References:

1. Townsend CM Jr, Beauchamp RD, Evers BM, Mattox KL, editors. **Sabiston textbook of surgery: the biological basis of modern surgical practice**. 21st ed. Philadelphia: Elsevier; 2022.)
2. SAGES Manual Committee. **SAGES manual of energy devices and electrosurgery**. Cham: Springer; 2020.
3. Ragg JL, Hewett PJ, editors. **Principles of surgical energy use**. London: Springer; 2019.
4. Feldman LS, Fuchshuber PR, Jones DB, editors. **The SAGES manual: fundamentals of laparoscopy, thoracoscopy, and GI endoscopy (FLS)**. 3rd ed. Cham: Springer; 2021.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

11.09.2025

Discipline Coordinator,
Assoc.Prof. Ulmeanu Dan Ioan

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Assoc.Prof. Ulmeanu Dan Ioan

Laboratory Coordinator,

-

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY					
Didactic position, name and surname of the Discipline Coordinator	Lecturer Dumitrescu Silviu, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Lecturer PhD Dumitrescu Silviu, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.22	Formative category of the discipline		DS		
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10	
Discipline Regime (M -mandatory, E -elective)				E	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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY. • Identifying typical presentations, key findings and risk situations addressed in RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY. • To develop understanding of clinical assessment and diagnostic reasoning relevant to RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY. • To familiarize students with evidence-based management principles and patient-safety considerations in RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY and recognize red flags requiring urgent escalation.

Course name	RELATED TECHNOLOGIES IN CARDIOVASCULAR SURGERY
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe key technologies used in cardiovascular surgery and perioperative care and recognize common postoperative complications and monitoring principles.
Skills	Support perioperative assessment and monitoring and interpret basic cardiovascular investigation summaries under supervision.
Responsibilities/ Autonomy	Escalate deterioration promptly, ensure adherence to safety protocols and communicate effectively with teams and patients/families under guidance.

Course Syllabus	Hours
Course #1. Cardiac Valvular Anatomy Detailed anatomical study of cardiac valves. Morphology, structure, functional anatomy, and clinical significance for surgical procedures.	2
Course #2. Cardiac Valvular Pathophysiology Pathophysiological mechanisms underlying cardiac valve disorders (valvulopathies). Etiology, hemodynamic consequences, clinical manifestations, and disease progression.	2
Course #3. Surgical Indications in Valvular Disease Comprehensive guidelines and clinical criteria for surgical interventions in various cardiac valvulopathies. Indications, timing, and decision-making processes.	2
Course #4. Medical Management of Valvular Diseases Overview of pharmacological strategies and non-surgical management options for cardiac valvular pathologies. Therapeutic indications, clinical outcomes, and limitations.	2
Course #5. Classical and Minimally Invasive Approaches in Valvular Surgery Comparative analysis of traditional and minimally invasive surgical techniques. Surgical access routes, procedural advantages, limitations, patient selection criteria, and outcomes.	2
Course #6. Types of Valvular Replacements Examination of various valve replacement options, including mechanical, biological, and hybrid prostheses. Indications, surgical techniques, advantages, disadvantages, and long-term patient management.	1
Course #7. Minimally Invasive Valve Interventions Detailed exploration of minimally invasive valve repair and replacement techniques, including percutaneous procedures (TAVI, MitraClip). Indications, procedural methods, technological aspects, and outcomes.	1
Course #8. Complications of Minimally Invasive Cardiac Valvular Surgery Identification, prevention, and management of common and rare complications related to minimally invasive cardiac valve interventions. Clinical recognition, immediate management, and strategies to optimize outcomes.	2

Minimum References:

1. Sellke FW, del Nido PJ, Swanson SJ. **Cardiac surgery: safeguards and pitfalls**. 5th ed. Philadelphia: Elsevier; 2020.
2. Glauber M, Miceli A, editors. **Minimally invasive cardiac surgery**. 2nd ed. Cham: Springer; 2020.
3. Gravlee GP, Davis RF, Stammers AH, Ungerleider RM, editors. **Cardiopulmonary bypass: principles and practice**. 4th ed. Philadelphia: Wolters Kluwer; 2015.
4. Webb JG, Bavaria JE, editors. **Transcatheter valve therapy**. 2nd ed. Oxford: Oxford University Press; 2020.
5. Teaching support materials

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

Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> • Interactive learning based on logical and progressive presentation of content. • Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:

-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams

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Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %

Description of the actual methods of examination – E

- Multiple choice examination

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

11.09.2025

Discipline Coordinator,

Lecturer PhD Dumitrescu Silviu

Head of Department,

Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,

Lecturer PhD Dumitrescu Silviu

Laboratory Coordinator,

-

Department Approval Date

25.09.2025



DISCIPLINE FILE

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

Discipline`s Name	TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE					
Didactic position, name and surname of the Discipline Coordinator	Lecturer Muşetescu Alina, MD, PhD					
Didactic position, name and surname for the Course Coordinator	Lecturer Muşetescu Alina, MD, PhD					
Didactic position, name and surname for the Coordinator of the Seminar / Laboratory / Clinical Traineeship	-					
Discipline Code	MLE.O.23	Formative category of the discipline		DS		
Year of Study	V	Semester	10	Type of the final evaluation (E, V)	V10	
Discipline Regime (M -mandatory, E -elective)				E	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					2
2. Study according with the course support, manuals					13
3. Study of the minimal bibliography					2
4. Additional documentation in the library					2
5. Specific activity for the seminary or laboratory					0
6. Homework, translations, etc.					0

Distribution of time pool per week	Hours
7. Preparing for different written exams	1
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	6
13. Tutoring	2
14. Examinations	2
15. Other activities:	0

Course name	TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE
Specific professional competencies	<ul style="list-style-type: none"> • Understanding core concepts and principles relevant to TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE. • Identifying typical presentations, key findings and risk situations addressed in TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE. • Interpreting essential clinical and/or paraclinical data used in diagnostic reasoning and decision-making. • Recognizing indications, contraindications and common complications associated with diagnostic and therapeutic interventions. • Applying structured clinical reasoning and initial management principles under supervision.
Transversal competencies	<ul style="list-style-type: none"> • Development of analytical and critical thinking for structured clinical problem-solving. • Effective communication in academic and clinical contexts, including structured handover. • Collaboration in multidisciplinary healthcare environments with adherence to teamwork principles. • Demonstration of professional responsibility, ethics and adherence to patient-safety standards, including accurate documentation. • Use of scientific literature, guidelines and digital resources for evidence-based learning.
General objectives of the discipline	<ul style="list-style-type: none"> • To provide fundamental knowledge regarding the core scope of TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE. • To develop understanding of clinical assessment and diagnostic reasoning relevant to TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE. • To familiarize students with evidence-based management principles and patient-safety considerations in TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE. • To establish a foundation for safe, supervised clinical practice and interdisciplinary care.
Specific objectives of the discipline	<ul style="list-style-type: none"> • Identify common clinical presentations addressed in TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE and recognize red flags requiring urgent escalation.

Course name	TRADITIONAL CHINESE MEDICINE - ACUPUNCTURE
	<ul style="list-style-type: none"> • Perform a focused history and physical examination appropriate to the discipline. • Interpret basic laboratory tests and/or imaging reports relevant to clinical decision-making. • Formulate differential diagnoses and an initial management plan, including investigations and referral, under supervision. • Apply principles of patient communication, documentation and safety in clinical practice.

Learning Outcomes	
Knowledge	Describe concepts, proposed mechanisms, indications and limitations of acupuncture within integrative medicine, including safety considerations.
Skills	Take a focused history, identify suitable/unsuitable cases and critically appraise evidence claims and communicate them clearly under supervision.
Responsibilities/ Autonomy	Provide ethical counselling, avoid misinformation, document discussions and ensure safe referral practices responsibly.

Course Syllabus	Hours
Course #1. Introduction to Chinese Medicine and Fundamental Concepts Overview of discipline, Yin-Yang duality, and theory of the Five Elements. Practical implications for clinical diagnosis and therapy.	1
Course #2. General Clinical Examination and Acupuncture Indications Performing a general clinical examination from the perspective of traditional Chinese medicine. Overview of general therapeutic indications and contraindications of acupuncture.	1
Course #3. Acupuncture Instruments and Safety Procedures Hands-on instruction in handling and maintaining acupuncture kits. Practical training in hygiene standards and workplace safety specific to acupuncture practice.	1
Course #4. Meridians of the Upper Limb Detailed practical exploration of acupuncture meridians located in the upper limb. Identification, location techniques, and clinical applications of specific points.	1
Course #5. Meridians of the Lower Limb Detailed practical instruction on acupuncture meridians in the lower limb. Precise localization methods, clinical correlations, and therapeutic implications.	1
Course #6. Meridians of the Dorsal Body Surface Hands-on study of dorsal acupuncture meridians. Identification techniques, anatomical landmarks, and therapeutic uses.	1
Course #7. Meridians of the Ventral Body Surface Practical localization, anatomical understanding, and clinical application of ventral acupuncture meridians and specific points.	1
Course #8. Acupuncture Points of the Head Region Instruction and practical exercises on locating and using acupuncture points of the head and facial areas. Clinical indications, risks, and practical techniques.	1
Course #9. Microsystems in Acupuncture (Auricular Therapy) Practical introduction to acupuncture microsystems, with emphasis on auricular (ear) acupuncture. Identification, mapping, and clinical application of auricular points.	1

Course Syllabus	Hours
Course #10. Low-Power Laser Therapy and Electroacupuncture Practical instruction in modern acupuncture-related technologies, including laser therapy and electroacupuncture. Techniques, safety, indications, and therapeutic effects.	1
Course #11. Acupuncture for Pain Management Hands-on training in acupuncture techniques for managing various types of pain. Clinical cases, practical demonstrations, and therapeutic approaches.	1
Course #12. Acupuncture in ENT Disorders Practical exercises in acupuncture treatment of ear, nose, and throat conditions. Clinical scenarios, point selection, and practical treatment methods.	1
Course #13. Acupuncture in Lumbo-Sciatica Syndrome Focused practical instruction on acupuncture management of lumbo-sciatic pain. Case studies, specific point selection, and therapeutic technique practice.	1
Course #14. Comprehensive Review Structured revision and practical evaluation of learned acupuncture techniques, meridian localization, point selection, safety standards, and therapeutic applications.	1

Minimum References:
1. White A, Cummings M, Filshie J. An introduction to Western medical acupuncture . 2nd ed. Edinburgh: Churchill Livingstone Elsevier; 2018.
2. Ernst E, Lee MS, Choi TY. Acupuncture: does it alleviate pain and are there serious risks? A review of reviews . Pain. 2011;152(4):755–64.
3. MacPherson H, Hammerschlag R, Lewith G, Schnyer R, editors. Acupuncture research: strategies for establishing an evidence base . Edinburgh: Elsevier Churchill Livingstone; 2008.
4. Deadman P, Al-Khafaji M, Baker K. A manual of acupuncture . 2nd ed. Hove: Journal of Chinese Medicine Publications; 2007.
5. Teaching support materials

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	
Type of Activity	Teaching methods used
Lecture	<ul style="list-style-type: none"> Interactive learning based on logical and progressive presentation of content. Multimedia projection of lecture materials.
Laboratory (Practical Work)	-

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:
-

Minimum set of activities that must be performed by the student in the practical exam in order to be admitted to the exam (final verification): obtaining an average of 5 in the practical exams
-

Specific conditions for carrying out the theoretical and practical activities of the discipline:

- Theoretical activities are conducted in a lecture-based format using multimedia presentations (e.g., PowerPoint), supported by case examples and interactive discussions to facilitate applied understanding.

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 through the semester	15 %
- Projects / Translations / Posters / Essays, etc.	15 %
- Other activities:	0 %
Description of the actual methods of examination – E	
<ul style="list-style-type: none"> • Multiple choice examination 	
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

11.09.2025

Discipline Coordinator,
Lecturer PhD Muşetescu Alina

Head of Department,
Dan Ulmeanu, Assoc. Professor, M.D., PhD

Course Coordinator,
Lecturer PhD Muşetescu Alina

Laboratory Coordinator,
-

Department Approval Date

25.09.2025